



an_cui_yang.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
(int)     -fl1 Flag Entropy (0/1)
(int)     -fl2 Flag Alpha (0/1)
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)     -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)   -help displays this message
(noarg)   -data displays the help concerning Data Format parameter
```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

an_yang_3components_decomposition.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
```

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

[**an_yang_4components_decomposition.exe**](#)

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

[**arii_anned_3components_decomposition.exe**](#)

Parameters:

(string) -id input directory
(string) -od output directory

```

(string)  -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col

```

Optional Parameters:

```

(string)  -mask mask file (valid pixels)
(int)     -mem Allocated memory for blocksize determination (in Mb)
(string)  -errf memory error file
(noarg)   -help displays this message
(noarg)   -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

```

S2      input : quad-pol S2      output parameters derived from C3 or T3
C3      input : covariance C3    output parameters derived from covariance
C3
T3      input : coherency T3     output parameters derived from coherency
T3

```

[arii_anned_3components_decomposition.exe](#)

Parameters:

```

(string)  -id   input directory
(string)  -od   output directory
(string)  -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col

```

Optional Parameters:

```

(string)  -mask mask file (valid pixels)
(int)     -mem Allocated memory for blocksize determination (in Mb)
(string)  -errf memory error file
(noarg)   -help displays this message
(noarg)   -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

```

S2      input : quad-pol S2      output parameters derived from C3 or T3
C3      input : covariance C3    output parameters derived from covariance
C3
T3      input : coherency T3     output parameters derived from coherency
T3

```

arii_anned_3components_reconstruction.exe

Parameters:

(string) -id input directory
(string) -od1 output directory - ground
(string) -od2 output directory - double
(string) -od3 output directory - volume
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

arii_anned_3components_reconstruction.exe

Parameters:

(string) -id input directory
(string) -od1 output directory - ground
(string) -od2 output directory - double
(string) -od3 output directory - volume
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

[arii_nned_3components_decomposition.exe](#)

Parameters:

(string)	-id	input directory
(string)	-od	output directory
(string)	-iodf	input-output data format
(int)	-nwr	Nwin Row
(int)	-nwc	Nwin Col
(int)	-ofr	Offset Row
(int)	-ofc	Offset Col
(int)	-fnr	Final Number of Row
(int)	-fnc	Final Number of Col

Optional Parameters:

(string)	-mask	mask file (valid pixels)
(int)	-mem	Allocated memory for blocksize determination (in Mb)
(string)	-errf	memory error file
(noarg)	-help	displays this message
(noarg)	-data	displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

[arii_nned_3components_reconstruction.exe](#)

Parameters:

(string)	-id	input directory
(string)	-od1	output directory - ground
(string)	-od2	output directory - double
(string)	-od3	output directory - volume
(string)	-iodf	input-output data format
(int)	-nwr	Nwin Row
(int)	-nwc	Nwin Col

```

(int)      -ofr  Offset Row
(int)      -ofc  Offset Col
(int)      -fnr  Final Number of Row
(int)      -fnc  Final Number of Col

```

Optional Parameters:

```

(string)   -mask mask file (valid pixels)
(int)      -mem  Allocated memory for blocksize determination (in Mb)
(string)   -errf memory error file
(noarg)    -help displays this message
(noarg)    -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

```

S2      input : quad-pol S2      output parameters derived from C3 or T3
C3      input : covariance C3    output parameters derived from covariance
C3
T3      input : coherency T3     output parameters derived from coherency
T3

```

barnes1_decomposition.exe

Parameters:

```

(string)   -id   input directory
(string)   -od   output directory
(string)   -iodf input-output data format
(int)      -nwr  Nwin Row
(int)      -nwc  Nwin Col
(int)      -ofr  Offset Row
(int)      -ofc  Offset Col
(int)      -fnr  Final Number of Row
(int)      -fnc  Final Number of Col

```

Optional Parameters:

```

(string)   -mask mask file (valid pixels)
(int)      -mem  Allocated memory for blocksize determination (in Mb)
(string)   -errf memory error file
(noarg)    -help displays this message
(noarg)    -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

```

S2C3      input : quad-pol S2      output : covariance C3
S2T3      input : quad-pol S2      output : coherency T3
C3         input : covariance C3    output : covariance C3
T3         input : coherency T3     output : coherency T3

```

barnes2_decomposition.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2C3	input : quad-pol S2	output : covariance C3
S2T3	input : quad-pol S2	output : coherency T3
C3	input : covariance C3	output : covariance C3
T3	input : coherency T3	output : coherency T3

cameron_decomposition.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(string) -col Colormap Cameron 8 colors

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
----	---------------------	---

change_detector.exe

Parameters:

(string) -if1 input file 1
(string) -if2 input file 2
(string) -of output file
(string) -det detector (mrd, gkld, ckld)
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -inc Initial Number of Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

change_detector_mat.exe

Parameters:

(string) -id1 input directory 1
(string) -id2 input directory 2
(string) -of output file
(string) -idf input data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C2	input : covariance C2	output parameters derived from covariance
C2		
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		

T2	input : coherency T2	output parameters derived from coherency
T2		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		
SPP	input : dual-pol SPP	output parameters derived from C3

cloude_decomposition.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)    -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)  -help displays this message
(noarg)  -data displays the help concerning Data Format parameter
```

Usage:

Polarimetric Input-Output Data Format

S2C3	input : quad-pol S2	output : covariance C3
S2T3	input : quad-pol S2	output : coherency T3
C3	input : covariance C3	output : covariance C3
T3	input : coherency T3	output : coherency T3

cluster_avg_prm.exe

Parameters:

```
(string) -if  input parameter file
(string) -of  output parameter file
(string) -icf input cluster file
(int)    -inc Initial Number of Col
(int)    -ofr Offset Row
(int)    -ofc Offset Col
(int)    -fnr Final Number of Row
(int)    -fnc Final Number of Col
```

Optional Parameters:

```
(noarg)  -help displays this message
(string) -mask mask file (valid pixels)
(int)    -mem Allocated memory for blocksize determination (in Mb)
```

(string) -errf memory error file

cluster_avg_S2SPP.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -icf input cluster file
(string) -iodf input-output data format
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(noarg) -help displays this message
(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2C3	input : quad-pol S2	output : covariance C3
S2C4	input : quad-pol S2	output : covariance C4
S2T3	input : quad-pol S2	output : coherency T3
S2T4	input : quad-pol S2	output : coherency T4
SPP	input : dual-pol SPP	output : dual-pol SPP

cluster_create.exe

Parameters:

(string) -isf input segment file
(string) -ivf input value file
(string) -of output cluster file
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(int) -npix Npix limit
(int) -neig Neighborhood (4/8)

Optional Parameters:

(noarg) -help displays this message

coeff_variation.exe

Parameters:

(string) -if input file
(string) -of output file
(string) -idf input data format (cmplx, float, int)

```

(string)  -odf  output data format (real, imag, mod, mod2, pha)
(int)     -nwr  Nwin Row
(int)     -nwc  Nwin Col
(int)     -inc  Initial Number of Col
(int)     -ofr  Offset Row
(int)     -ofc  Offset Col
(int)     -fnr  Final Number of Row
(int)     -fnc  Final Number of Col

```

Optional Parameters:

```

(string)  -mask mask file (valid pixels)
(int)     -mem  Allocated memory for blocksize determination (in Mb)
(string)  -errf memory error file
(noarg)   -help displays this message

```

compact_classification.exe

Parameters:

```

(string)  -id   input directory
(string)  -od   output directory
(string)  -iodf input-output data format
(string)  -hyb  hybrid data format (RHC or LHC)
(int)     -nwr  Nwin Row
(int)     -nwc  Nwin Col
(int)     -ofr  Offset Row
(int)     -ofc  Offset Col
(int)     -fnr  Final Number of Row
(int)     -fnc  Final Number of Col
(float)   -g0   Noise threshold
(float)   -mv1  Mv1 threshold
(float)   -mv2  Mv2 threshold
(float)   -as1  alpha_s1 threshold
(float)   -as2  alpha_s2 threshold
(float)   -dp1  deg-pol1 threshold
(float)   -dp2  deg-pol2 threshold
(string)  -col  Colormap Compact 8 colors

```

Optional Parameters:

```

(string)  -mask mask file (valid pixels)
(int)     -mem  Allocated memory for blocksize determination (in Mb)
(string)  -errf memory error file
(noarg)   -help displays this message
(noarg)   -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

```

SPP    input : dual-pol SPP      output parameters derived from C3
C2     input : covariance C2     output parameters derived from covariance
C2

```

compact_decomposition.exe

Parameters:

```
(string) -id   input directory
(string) -od   output directory
(string) -iodf input-output data format
(string) -hyb  hybrid data format (RHC or LHC)
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
(int)     -fl1  Flag Eigenvalues (0/1)
(int)     -fl2  Flag Probabilites (0/1)
(int)     -fl3  Flag Entropy (0/1)
(int)     -fl4  Flag Degree of Polarisation (0/1)
(int)     -fl5  Flag Mv (0/1)
(int)     -fl6  Flag Ms (0/1)
(int)     -fl7  Flag Alpha_s (0/1)
(int)     -fl8  Flag Phi (0/1)
(int)     -fl9  Flag Ps, Pd, Pv (0/1)
(int)     -fl10 Flag Sigma_HV (0/1)
(int)     -fl11 Flag RSoV (0/1)
(int)     -fl12 Flag CPR (0/1)
(int)     -fl13 Flag Alpha (0/1)
(int)     -fl14 Flag Tau (0/1)
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)     -mem  Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)  -help displays this message
(noarg)  -data displays the help concerning Data Format parameter
```

Usage:

Polarimetric Input-Output Data Format

```
SPP   input : dual-pol SPP       output parameters derived from C3
C2    input : covariance C2      output parameters derived from covariance
C2
```

[conformity_coeff.exe](#)

Parameters:

```
(string) -id   input directory
(string) -od   output directory
(string) -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
```

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

confusion_matrix.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -af input area file
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(int) -bmp BMP flag (0/1)
(int) -rej Rejection flag (0/1)
(string) -col input colormap file (valid if BMP flag = 1)

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

dem_estimation.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

```

(float)  -alt  Altitude
(float)  -rmin Rmin
(float)  -rmax Rmax
(float)  -imax Ind Max
(float)  -resa Resol azimuth
(float)  -resr Resol range
(float)  -refp Refp
(int)    -v1   V1
(int)    -v2   V2
(int)    -rr   Rr
(int)    -rc   Rc
(int)    -nf   Nf

```

Optional Parameters:

```

(string) -mask mask file (valid pixels)
(int)    -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)  -help displays this message
(noarg)  -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

diversity_index.exe

Parameters:

```

(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(int)    -nwr Nwin Row
(int)    -nwc Nwin Col
(int)    -ofr Offset Row
(int)    -ofc Offset Col
(int)    -fnr Final Number of Row
(int)    -fnc Final Number of Col
(int)    -fl1 Flag Shannon index
(int)    -fl2 Flag Simpson index
(int)    -fl3 Flag Inverse Simpson index
(int)    -fl4 Flag Gini Simpson index
(int)    -fl5 Flag Reyni entropy 2
(int)    -fl6 Flag Reyni entropy 3
(int)    -fl7 Flag Reyni entropy 4
(int)    -fl8 Flag Index of Qualitative Variation
(int)    -fl9 Flag Perplexity

```

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
SPP	input : dual-pol SPP	output parameters derived from C3
C2	input : covariance C2	output parameters derived from covariance
C2		
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

edge_detector_black.exe

Parameters:

(string) -if input file
(string) -od output dir
(string) -idf input data format (cmplx, float, int)
(string) -odf output data format (real, imag, mod, mod2, pha)
(int) -inc Initial Number of Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(float) -det detector coefficient (0 = coarse scale, 1 = fine scale)
(string) -of output file
(int) -mmb MinMaxBmp flag (0,1,2,3)
(float) -min Min value (valid if MinMaxBMP = 0)
(float) -max Max value (valid if MinMaxBMP = 0)

Optional Parameters:

(noarg) -help displays this message
(string) -mask mask file (valid pixels)

edge_detector_canny.exe

Parameters:

(string) -if input file
(string) -od output dir
(string) -idf input data format (cmplx, float, int)

(string) -odf output data format (real, imag, mod, mod2, pha)
(int) -inc Initial Number of Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(float) -det detector coefficient (0 = coarse scale, 1 = fine scale)
(string) -of output file
(int) -mmb MinMaxBmp flag (0,1,2,3)
(float) -min Min value (valid if MinMaxBMP = 0)
(float) -max Max value (valid if MinMaxBMP = 0)

Optional Parameters:

(noarg) -help displays this message
(string) -mask mask file (valid pixels)

edge_detector_marr.exe

Parameters:

(string) -if input file
(string) -od output dir
(string) -idf input data format (cmplx, float, int)
(string) -odf output data format (real, imag, mod, mod2, pha)
(int) -inc Initial Number of Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(float) -det detector coefficient (0 = coarse scale, 1 = fine scale)
(string) -of output file
(int) -mmb MinMaxBmp flag (0,1,2,3)
(float) -min Min value (valid if MinMaxBMP = 0)
(float) -max Max value (valid if MinMaxBMP = 0)

Optional Parameters:

(noarg) -help displays this message
(string) -mask mask file (valid pixels)

edge_detector_rothwell.exe

Parameters:

(string) -if input file
(string) -od output dir
(string) -idf input data format (cmplx, float, int)
(string) -odf output data format (real, imag, mod, mod2, pha)
(int) -inc Initial Number of Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(float) -det detector coefficient (0 = coarse scale, 1 = fine scale)
(string) -of output file
(int) -mmb MinMaxBmp flag (0,1,2,3)
(float) -min Min value (valid if MinMaxBMP = 0)

(float) -max Max value (valid if MinMaxBMP = 0)

Optional Parameters:

(noarg) -help displays this message
(string) -mask mask file (valid pixels)

faraday_rotation.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C4	input : covariance C4	output parameters derived from covariance
C4		
T4	input : coherency T4	output parameters derived from coherency
T4		

freeman_2components_decomposition.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file

(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

freeman_2components_reconstruction.exe

Parameters:

(string) -id input directory
(string) -od1 output directory - ground
(string) -od2 output directory - volume
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

freeman_decomposition.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col

```

(int)      -ofr  Offset Row
(int)      -ofc  Offset Col
(int)      -fnr  Final Number of Row
(int)      -fnc  Final Number of Col

```

Optional Parameters:

```

(string)   -mask mask file (valid pixels)
(int)      -mem  Allocated memory for blocksize determination (in Mb)
(string)   -errf memory error file
(noarg)    -help displays this message
(noarg)    -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

```

S2      input : quad-pol S2      output parameters derived from C3 or T3
C3      input : covariance C3    output parameters derived from covariance
C3
T3      input : coherency T3     output parameters derived from coherency
T3

```

freeman_reconstruction.exe

Parameters:

```

(string)   -id   input directory
(string)   -od1  output directory - ground
(string)   -od2  output directory - double
(string)   -od3  output directory - volume
(string)   -iodf input-output data format
(int)      -nwr  Nwin Row
(int)      -nwc  Nwin Col
(int)      -ofr  Offset Row
(int)      -ofc  Offset Col
(int)      -fnr  Final Number of Row
(int)      -fnc  Final Number of Col

```

Optional Parameters:

```

(string)   -mask mask file (valid pixels)
(int)      -mem  Allocated memory for blocksize determination (in Mb)
(string)   -errf memory error file
(noarg)    -help displays this message
(noarg)    -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

```

S2      input : quad-pol S2      output parameters derived from C3 or T3
C3      input : covariance C3    output parameters derived from covariance
C3
T3      input : coherency T3     output parameters derived from coherency
T3

```

gpf_confusion_matrix.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -af input area file
(string) -thr threshold
(string) -redr reduction ratio
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(int) -bmp BMP flag (0/1)
(string) -col input colormap file (valid if BMP flag = 1)

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

gpf_classifier.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(string) -af input area file
(string) -of output file
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(string) -cf input cluster file
(int) -bmp BMP flag (0/1)
(string) -col input colormap file (valid if BMP flag = 1)
(float) -thr threshold
(float) -redr reduction ratio

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C2	input : covariance C2	output parameters derived from covariance
C2		
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T2	input : coherency T2	output parameters derived from coherency
T2		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		
SPP	input : dual-pol SPP	output parameters derived from C3

gpf_training_set_sampler.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(string) -af  input area file
(string) -cf  output cluster file
(int)     -bmp BMP flag (0/1)
(string) -col input colormap file (valid if BMP flag = 1)
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)     -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)   -help displays this message
(noarg)   -data displays the help concerning Data Format parameter
```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C2	input : covariance C2	output parameters derived from covariance
C2		
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T2	input : coherency T2	output parameters derived from coherency
T2		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		
SPP	input : dual-pol SPP	output parameters derived from C3

haalpha_decomposition.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2C3	input : quad-pol S2	output : covariance C3
S2T3	input : quad-pol S2	output : coherency T3
C3	input : covariance C3	output : covariance C3
T3	input : coherency T3	output : coherency T3

histogram_statistics.exe

Parameters:

(string) -if input file
(string) -of output file
(string) -hs histogram statistics
(mean,mean_dev,var,coeff_var,kurtosis,median,median_dev,euclidian_distance,skewness,energy,cumulant1-4,logcumulant1-4)
(string) -idf input data format (cplx, float, int)
(string) -odf output data format (real, imag, mod, mod2, pha)
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -inc Initial Number of Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

[holm1_decomposition.exe](#)

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2C3	input : quad-pol S2	output : covariance C3
S2T3	input : quad-pol S2	output : coherency T3
C3	input : covariance C3	output : covariance C3
T3	input : coherency T3	output : coherency T3

[holm2_decomposition.exe](#)

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2C3	input : quad-pol S2	output : covariance C3
------	---------------------	------------------------

S2T3	input : quad-pol S2	output : coherency T3
C3	input : covariance C3	output : covariance C3
T3	input : coherency T3	output : coherency T3

huynen_decomposition.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)    -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)  -help displays this message
(noarg)  -data displays the help concerning Data Format parameter
```

Usage:

Polarimetric Input-Output Data Format

S2C3	input : quad-pol S2	output : covariance C3
S2T3	input : quad-pol S2	output : coherency T3
C3	input : covariance C3	output : covariance C3
T3	input : coherency T3	output : coherency T3

hybrid_polar.exe

Parameters:

```
(string) -iod  input directory
(string) -odf  output data format
(int)    -nwr  Nwin Row
(int)    -nwc  Nwin Col
(int)    -ofr  Offset Row
(int)    -ofc  Offset Col
(int)    -fnr  Final Number of Row
(int)    -fnc  Final Number of Col
(string) -mod  Hybrid Polar mode (pi4 / lhv / rhv)
(string) -recm Reconstruction mode (polar / rotsym / rotrefsym)
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)    -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)  -help displays this message
(noarg)  -data displays the help concerning Data Format parameter
```


Usage:*Polarimetric Input-Output Data Format*

C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

[h_alpha_fcm_classifier.exe](#)*Parameters:**Parameters:*

(string)	-id	input directory
(string)	-od	output directory
(string)	-iodf	input-output data format
(int)	-nwr	Nwin Row
(int)	-nwc	Nwin Col
(int)	-ofr	Offset Row
(int)	-ofc	Offset Col
(int)	-fnr	Final Number of Row
(int)	-fnc	Final Number of Col
(string)	-wei	Wei
(float)	-wem	wei_m
(float)	-dV	dV_max
(int)	-nit	Number of iterations
(int)	-bmp	BMP flag (1/0)

Optional Parameters:

(string)	-mask	mask file (valid pixels)
(int)	-mem	Allocated memory for blocksize determination (in Mb)
(string)	-errf	memory error file
(noarg)	-help	displays this message
(noarg)	-data	displays the help concerning Data Format parameter
(string)	-clm	ColorMap Wishart8 colors (if BMP flag = 1)

Usage:*Polarimetric Input-Output Data Format*

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

h_alpha_fuzzy_membership.exe

Parameters:

(string) -id input dir
(string) -od output dir
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(float) -sig Crisp value

Optional Parameters:

(noarg) -help displays this message
(string) -mask mask file (valid pixels)

h_alpha_lambda_planes_classifier.exe

Parameters:

(string) -id input directory
(string) -od output directory
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(string) -clm Colormap 27 colors

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

h_alpha_lambda_planes_classifier_dualpol.exe

Parameters:

(string) -id input directory
(string) -od output directory
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(string) -clm Colormap 27 colors

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

h_a_alpha_decomposition.exe

Parameters:

```

(string)  -id   input directory
(string)  -od   output directory
(string)  -iodf input-output data format
(int)     -nwr  Nwin Row
(int)     -nwc  Nwin Col
(int)     -ofr  Offset Row
(int)     -ofc  Offset Col
(int)     -fnr  Final Number of Row
(int)     -fnc  Final Number of Col
(int)     -fl1  Flag Parameters (0/1)
(int)     -fl2  Flag Lambda (0/1)
(int)     -fl3  Flag Alpha (0/1)
(int)     -fl4  Flag Entropy (0/1)
(int)     -fl5  Flag Anisotropy (0/1)
(int)     -fl6  Flag Comb HA (0/1)
(int)     -fl7  Flag Comb H1mA (0/1)
(int)     -fl8  Flag Comb 1mHA (0/1)
(int)     -fl9  Flag Comb 1mH1mA (0/1)

```

Optional Parameters:

```

(string)  -mask mask file (valid pixels)
(int)     -mem  Allocated memory for blocksize determination (in Mb)
(string)  -errf memory error file
(noarg)   -help displays this message
(noarg)   -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

S2T3	input : quad-pol S2	output parameters derived from coherency
T3		
S2C3	input : quad-pol S2	output parameters derived from covariance
C3		
S2T4	input : quad-pol S2	output parameters derived from coherency
T4		
S2C4	input : quad-pol S2	output parameters derived from covariance
C4		
C2	input : covariance C2	output parameters derived from covariance
C2		
C3	input : covariance C3	output parameters derived from covariance
C3		
C3T3	input : covariance C3	output parameters derived from coherency
T3		
C4	input : covariance C4	output parameters derived from covariance
C4		
C4T4	input : covariance C4	output parameters derived from coherency
T4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

[h_a_alpha_decompositionSPPC2.exe](#)

Parameters:

```
(string) -id   input directory
(string) -od   output directory
(string) -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
(int)     -fl1 Flag Eigenvalues
(int)     -fl2 Flag Probabilites
(int)     -fl3 Flag Alpha1-2 (0/1)
(int)     -fl4 Flag Delta1-2 (0/1)
(int)     -fl5 Flag Parameters (0/1)
(int)     -fl6 Flag Alpha (0/1)
(int)     -fl7 Flag Delta (0/1)
(int)     -fl8 Flag Lambda (0/1)
(int)     -fl9 Flag Entropy (0/1)
(int)     -fl10      Flag Anisotropy (0/1)
(int)     -fl11      Flag Comb HA (0/1)
(int)     -fl12      Flag Comb H1mA (0/1)
(int)     -fl13      Flag Comb 1mHA (0/1)
(int)     -fl14      Flag Comb 1mH1mA (0/1)
(int)     -fl15 Flag Shannon
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)     -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)   -help displays this message
(noarg)   -data displays the help concerning Data Format parameter
```

Usage:

Polarimetric Input-Output Data Format

```
SPP   input : dual-pol SPP       output parameters derived from C3
C2    input : covariance C2      output parameters derived from covariance
C2
```

[**h_a_alpha_eigenvalue_set.exe**](#)

Parameters:

```
(string) -id   input directory
(string) -od   output directory
(string) -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
(int)     -fl1 Flag Eigenvalues
(int)     -fl2 Flag Probabilites
```

```

(int)      -fl3  Flag Anisotropy
(int)      -fl4  Flag Anisotropy12
(int)      -fl5  Flag Anisotropy34
(int)      -fl6  Flag Asymetry
(int)      -fl7  Flag Polarisation Fraction
(int)      -fl8  Flag Erd
(int)      -fl9  Flag RVI
(int)      -fl10 Flag Pedestal
(int)      -fl11 Flag Shannon
(int)      -fl12 Flag Lueneburg

```

Optional Parameters:

```

(string)   -mask mask file (valid pixels)
(int)      -mem Allocated memory for blocksize determination (in Mb)
(string)   -errf memory error file
(noarg)    -help displays this message
(noarg)    -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

S2T3	input : quad-pol S2	output parameters derived from coherency
T3		
S2C3	input : quad-pol S2	output parameters derived from covariance
C3		
S2T4	input : quad-pol S2	output parameters derived from coherency
T4		
S2C4	input : quad-pol S2	output parameters derived from covariance
C4		
C3	input : covariance C3	output parameters derived from covariance
C3		
C3T3	input : covariance C3	output parameters derived from coherency
T3		
C4	input : covariance C4	output parameters derived from covariance
C4		
C4T4	input : covariance C4	output parameters derived from coherency
T4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

[h_a_alpha_eigenvector_set.exe](#)

Parameters:

```

(string)   -id  input directory
(string)   -od  output directory
(string)   -iodf input-output data format
(int)      -nwr Nwin Row
(int)      -nwc Nwin Col
(int)      -ofr Offset Row
(int)      -ofc Offset Col
(int)      -fnr Final Number of Row
(int)      -fnc Final Number of Col

```

```

(int)      -fl1  Flag All Angles
(int)      -fl2  Flag Alpha
(int)      -fl3  Flag Beta
(int)      -fl4  Flag Delta
(int)      -fl5  Flag Gamma
(int)      -fl6  Flag Epsilon (valid only for T4 or C4, set 0 otherwise)
(int)      -fl7  Flag Nhu (valid only for T4 or C4, set 0 otherwise)

```

Optional Parameters:

```

(string)   -mask mask file (valid pixels)
(int)      -mem  Allocated memory for blocksize determination (in Mb)
(string)   -errf memory error file
(noarg)    -help displays this message
(noarg)    -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

S2T3	input : quad-pol S2	output parameters derived from coherency
T3		
S2C3	input : quad-pol S2	output parameters derived from covariance
C3		
S2T4	input : quad-pol S2	output parameters derived from coherency
T4		
S2C4	input : quad-pol S2	output parameters derived from covariance
C4		
C3	input : covariance C3	output parameters derived from covariance
C3		
C3T3	input : covariance C3	output parameters derived from coherency
T3		
C4	input : covariance C4	output parameters derived from covariance
C4		
C4T4	input : covariance C4	output parameters derived from coherency
T4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

[h_a_alpha_planes_classifier.exe](#)

Parameters:

```

(string)   -id   input directory
(string)   -od   output directory
(int)      -ofr  Offset Row
(int)      -ofc  Offset Col
(int)      -fnr  Final Number of Row
(int)      -fnc  Final Number of Col
(int)      -hal  Flag Plane H-Alpha
(int)      -han  Flag Plane H-A
(int)      -anal Flag Plane A-Alpha
(string)   -clm  Colormap 9 colors

```

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

h_a_alpha_planes_classifier_dualpol.exe

Parameters:

(string) -id input directory
(string) -od output directory
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(int) -hal Flag Plane H-Alpha
(int) -han Flag Plane H-A
(int) -anal Flag Plane A-Alpha
(string) -clm Colormap 9 colors

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

h_a_combinations.exe

Parameters:

(string) -id input directory
(string) -od output directory
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(int) -ha Flag combination HA
(int) -hla Flag combination H(1-A)
(int) -lha Flag combination (1-H)A
(int) -lhla Flag combination (1-H)(1-A)

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

id_class_gen.exe

Parameters:

(string) -id input directory
(string) -od output directory
(int) -ofr Offset Row
(int) -ofc Offset Col

(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(string) -if input class file
(string) -clm Colormap wishart 16 colors

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

kozlov_anisotropy.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

krogager_decomposition.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col

(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

lee_scattering_model_based_classification.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -isf input single bounce file
(string) -idf input double bounce file
(string) -irf input random bounce file
(string) -iodf input-output data format
(int) -ncl Cluster number
(int) -fscn Final single bounce cluster number
(int) -fdcn Final double bounce cluster number
(int) -fvcn Final random bounce cluster number
(float) -mct Mixed Scattering Category threshold
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(int) -nit maximum iteration number
(float) -pct maximum of pixel switching classes
(int) -bmp BMP flag (0/1)
(string) -cms input single bounce - colormap file (valid if BMP flag = 1)
(string) -cmd input double bounce - colormap file (valid if BMP flag = 1)
(string) -cmr input double bounce - colormap file (valid if BMP flag = 1)

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)

(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

log-cumulant.exe

Parameters:

(string) -if1 input file k2
(string) -if2 input file k3
(string) -of output file
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

mcs_m_5components_decomposition.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

neumann_decomposition.exe

Parameters:

```
(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter
```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

OPCE.exe

Parameters:

```
(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(string) -af area file
```

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

orientation_correction.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -if orientation angle data file
(string) -iodf input-output data format
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output : quad-pol S2
C3	input : covariance C3	output : covariance C3
T3	input : coherency T3	output : coherency T3

orientation_estimation.exe

Parameters:

(string) -id input directory

```

(string) -od    output directory
(string) -iodf  input-output data format
(int)    -nwr   Nwin Row
(int)    -nwc   Nwin Col
(int)    -ofr   Offset Row
(int)    -ofc   Offset Col
(int)    -fnr   Final Number of Row
(int)    -fnc   Final Number of Col

```

Optional Parameters:

```

(string) -mask mask file (valid pixels)
(int)    -mem   Allocated memory for blocksize determination (in Mb)
(string) -errf  memory error file
(noarg)  -help  displays this message
(noarg)  -data  displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

```

S2      input : quad-pol S2      output parameters derived from C3 or T3
C3      input : covariance C3    output parameters derived from covariance
C3
T3      input : coherency T3     output parameters derived from coherency
T3

```

Polar_Signature.exe

Parameters:

```

(string) -id    input directory
(string) -iodf  input-output data format
(string) -fct   output copol txt file
(string) -fcb   output copol bin file
(string) -fxt   output xpol txt file
(string) -fxb   output xpol bin file

```

Optional Parameters:

```

(noarg)  -help  displays this message
(noarg)  -data  displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

```

S2      input : quad-pol S2      output parameters derived from C3 or T3
C3      input : covariance C3    output parameters derived from covariance
C3
T3      input : coherency T3     output parameters derived from coherency
T3

```

polar_synt.exe

Parameters:

(string) -id input directory
(string) -iodf input-output data format
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(float) -phi Phi angle value (deg)
(float) -tau Tau angle value (deg)
(int) -rgb Flag RGB files creation (0/1)
(string) -rgbf RGB output format (pauli / sinclair)
(string) -bf Blue channel output file (if rgb = 1)
(string) -rf Red channel output file (if rgb = 1)
(string) -gf Green channel output file (if rgb = 1)
(int) -bmp Flag BMP file creation (0/1)
(string) -bmpf BMP output file (if bmp=1)

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

pps_detection.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(float) -al alphas threshold
(float) -pl pl threshold

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:*Polarimetric Input-Output Data Format*

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

praks_colin.exe*Parameters:*

(string)	-id	input directory
(string)	-od	output directory
(string)	-iodf	input-output data format
(int)	-nwr	Nwin Row
(int)	-nwc	Nwin Col
(int)	-ofr	Offset Row
(int)	-ofc	Offset Col
(int)	-fnr	Final Number of Row
(int)	-fnc	Final Number of Col
(int)	-fl1	Flag Scattering Predominance (0/1)
(int)	-fl2	Flag Scattering Diversity (0/1)
(int)	-fl3	Flag Degree of Purity (0/1)
(int)	-fl4	Flag Depolarization Index (0/1)
(int)	-fl5	Flag Entropy (0/1)
(int)	-fl6	Flag Alpha (0/1)

Optional Parameters:

(string)	-mask	mask file (valid pixels)
(int)	-mem	Allocated memory for blocksize determination (in Mb)
(string)	-errf	memory error file
(noarg)	-help	displays this message
(noarg)	-data	displays the help concerning Data Format parameter

Usage:*Polarimetric Input-Output Data Format*

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

process_contrast_IPP.exe

Parameters:

(string) -id input directory
(string) -od output directory
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(int) -ind index (1/2)

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

process_corr.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(int) -elt Element Index

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2m	input : quad-pol S2	output parameters derived from C3 or T3
S2b	input : quad-pol S2	output parameters derived from C4 or T4
C2	input : covariance C2	output parameters derived from covariance
C2		
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		

T4	input : coherency T4	output parameters derived from coherency
T4		
SPP	input : dual-pol SPP	output parameters derived from C3

process_corr_CCC.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)    -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)  -help displays this message
(noarg)  -data displays the help concerning Data Format parameter
```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

process_corr_CCC_norm.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
```

```

(int)      -mem Allocated memory for blocksize determination (in Mb)
(string)   -errf memory error file
(noarg)    -help displays this message
(noarg)    -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

```

S2      input : quad-pol S2      output parameters derived from C3 or T3
C3      input : covariance C3    output parameters derived from covariance
C3
C4      input : covariance C4    output parameters derived from covariance
C4
T3      input : coherency T3     output parameters derived from coherency
T3
T4      input : coherency T4     output parameters derived from coherency
T4

```

process_elements.exe

Parameters:

Parameters:

```

(string)   -id   input directory
(string)   -od   output directory
(string)   -iodf input-output data format
(int)      -ofr  Offset Row
(int)      -ofc  Offset Col
(int)      -fnr  Final Number of Row
(int)      -fnc  Final Number of Col
(int)      -elt  Element Index
(string)   -fmt  Format :
                S2, SPP, IPP : A, Adb, I, Idb, pha
                C3, C4, T3, T4, T6 : mod, db, pha

```

Optional Parameters:

```

(string)   -mask mask file (valid pixels)
(int)      -mem Allocated memory for blocksize determination (in Mb)
(string)   -errf memory error file
(noarg)    -help displays this message
(noarg)    -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

```

S2      input : quad-pol S2      output parameters derived from C3 or T3
C2      input : covariance C2    output parameters derived from covariance
C2
C3      input : covariance C3    output parameters derived from covariance
C3
C4      input : covariance C4    output parameters derived from covariance
C4

```

T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		
T6	input : coherency T6	output parameters derived from coherency
T6		
SPP	input : dual-pol SPP	output parameters derived from C3
IPP	input : intensities IPP	output parameters derived from IPP

process_pauli.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(string) -fmt Output Format (cmplx, mod, db, pha)
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)     -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)   -help displays this message
```

process_span.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
(string) -fmt Output Format (lin, db)
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)     -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)   -help displays this message
(noarg)   -data displays the help concerning Data Format parameter
```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
----	---------------------	---

C2	input : covariance C2	output parameters derived from covariance
C2		
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		
SPP	input : dual-pol SPP	output parameters derived from C3
IPP	input : intensities IPP	output parameters derived from IPP

raney_decomposition.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)     -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)   -help displays this message
(noarg)   -data displays the help concerning Data Format parameter
```

Usage:

Polarimetric Input-Output Data Format

SPP	input : dual-pol SPP	output parameters derived from C3
C2	input : covariance C2	output parameters derived from covariance
C2		

ratio_elements.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
```

(string) -rat Ratio Element (lin, db)

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C2	input : covariance C2	output parameters derived from covariance
C2		
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		
SPP	input : dual-pol SPP	output parameters derived from C3
IPP	input : intensities IPP	output parameters derived from IPP

RCSmax.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		

T3 input : coherency T3 output parameters derived from coherency
T3

RVOG_PolSAR.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2 input : quad-pol S2 output parameters derived from C3 or T3
C3 input : covariance C3 output parameters derived from covariance
C3
T3 input : coherency T3 output parameters derived from coherency
T3

scattering_mechanism_entropy_freeman.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:*Polarimetric Input-Output Data Format*

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

scattering_mechanism_entropy_vanzyl.exe*Parameters:*

(string)	-id	input directory
(string)	-od	output directory
(string)	-iodf	input-output data format
(int)	-nwr	Nwin Row
(int)	-nwc	Nwin Col
(int)	-ofr	Offset Row
(int)	-ofc	Offset Col
(int)	-fnr	Final Number of Row
(int)	-fnc	Final Number of Col

Optional Parameters:

(string)	-mask	mask file (valid pixels)
(int)	-mem	Allocated memory for blocksize determination (in Mb)
(string)	-errf	memory error file
(noarg)	-help	displays this message
(noarg)	-data	displays the help concerning Data Format parameter

Usage:*Polarimetric Input-Output Data Format*

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

singh_4components_decomposition.exe*Parameters:*

(string)	-id	input directory
(string)	-od	output directory
(string)	-iodf	input-output data format
(string)	-mod	decomposition mode (G4U1, G4U2)
(int)	-nwr	Nwin Row
(int)	-nwc	Nwin Col
(int)	-ofr	Offset Row
(int)	-ofc	Offset Col
(int)	-fnr	Final Number of Row

(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

soil_roughness_inversion.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(string) -ang incidence angle file
(int) -un Angle Unit (0: deg, 1: rad)
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(int) -fl1 Flag GtoV ratio Surface
(int) -fl2 Flag GtoV ratio Dihedral
(int) -fl3 Flag GtoV ratio Combined
(int) -fl4 Flag Roughness by GtoV
(int) -fl5 Flag Roughness by Anisotropy
(int) -fl6 Flag Roughness by Circular Correlation
(int) -fl7 Flag Soil from Xbragg
(int) -fl8 Flag Soil from Surface component
(int) -fl9 Flag Soil from Dihedral component
(int) -fl10 Vegetation model (1 / 2 / 3)
(float) -fl11 Rho parameter

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

stat_extract.exe

Parameters:

(string) -id input directory
(string) -iodf input-output data format
(string) -fist input statistics txt file
(string) -fisb input statistics bin file
(string) -fost output statistics txt file

Optional Parameters:

(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C2	input : covariance C2	output parameters derived from covariance
C2		
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T4	input : coherency T4	output parameters derived from coherency
T4		
SPP	input : dual-pol SPP	output parameters derived from C3

StokesParameters.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row

```

(int)      -fnc  Final Number of Col
(int)      -cha  Polarimetric channel (S2: 1 or 2, C2: 1)
(int)      -fl1  Flag Stokes parameters g0 (1 = lin, 2 = dB)
(int)      -fl2  Flag Stokes parameters g1 (1 = lin, 2 = dB)
(int)      -fl3  Flag Stokes parameters g2 (1 = lin, 2 = dB)
(int)      -fl4  Flag Stokes parameters g3 (1 = lin, 2 = dB)
(int)      -fl5  Flag Stokes angle phi (0/1)
(int)      -fl6  Flag Stokes angle tau (0/1)
(int)      -fl7  Flag Eigenvalues (0/1)
(int)      -fl8  Flag Probabilities (0/1) (int)      -fl9  Flag Entropy H
(0/1) (int)      -fl10      Flag Anisotropy A (0/1) (int)      -fl11
      Flag Wave Contrast (0/1)
(int)      -fl12      Flag Wave DoLP (0/1)
(int)      -fl13      Flag Wave DoCP (0/1)
(int)      -fl14      Flag Wave LPR (0/1)
(int)      -fl15      Flag Wave CPR (0/1)

```

Optional Parameters:

```

(string)  -mask mask file (valid pixels)
(int)     -mem  Allocated memory for blocksize determination (in Mb)
(string)  -errf memory error file
(noarg)   -help displays this message
(noarg)   -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C2	input : covariance C2	output parameters derived from covariance
C2		
SPP	input : dual-pol SPP	output parameters derived from C3

sub_aperture_anisotropy.exe

Parameters:

```

(string)  -id  input directory
(string)  -od  output directory
(string)  -iodf input-output data format
(int)     -subi initial sub-aperture number
(int)     -subn number of sub-apertures
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -nlk number of looks
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col

```

Optional Parameters:

```

(string)  -mask mask file (valid pixels)
(int)     -mem  Allocated memory for blocksize determination (in Mb)
(string)  -errf memory error file
(noarg)   -help displays this message
(noarg)   -data displays the help concerning Data Format parameter

```

Usage:*Polarimetric Input-Output Data Format*

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

sub_aperture_check_spectrum.exe*Parameters:*

```
(string) -id  input directory
(int)     -azf azimuth flag
(string)  -of1 output file: raw_spectrum.txt
(string)  -of2 output file: raw_spectrum.bin
(string)  -of3 output file: avg_spectrum.txt
(string)  -of4 output file: avg_spectrum.bin
```

Optional Parameters:

```
(noarg)  -help displays this message
```

sub_aperture_CV.exe*Parameters:*

```
(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(int)    -subi initial sub-aperture number
(int)    -subn number of sub-apertures
(int)    -nwr Nwin Row
(int)    -nwc Nwin Col
(int)    -fnr Final Number of Row
(int)    -fnc Final Number of Col
(int)    -fh  Flag entropy
(int)    -fa  Flag anisotropy
(int)    -fal Flag alpha
(int)    -fs  Flag span
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)    -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)  -help displays this message
(noarg)  -data displays the help concerning Data Format parameter
```

Usage:*Polarimetric Input-Output Data Format*

S2	input : quad-pol S2	output parameters derived from C3 or T3
----	---------------------	---

C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

sub_aperture_decomposition.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(float)  -pct percentage of resolution of output data
(int)    -sub number of sub-apertures
(int)    -wgh indicates if input data have been weighted
(int)    -azf azimuth flag
```

Optional Parameters:

```
(noarg)  -help displays this message
(int)    -lim1 limit 1 (if wgh = 0)
(int)    -lim2 limit 2 (if wgh = 0)
```

supervised_classifier.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(string) -af  input area file
(int)    -nwr Nwin Row
(int)    -nwc Nwin Col
(int)    -ofr Offset Row
(int)    -ofc Offset Col
(int)    -fnr Final Number of Row
(int)    -fnc Final Number of Col
(string) -cf  input cluster file
(int)    -bmp BMP flag (0/1)
(string) -col input colormap file (valid if BMP flag = 1)
(int)    -rej rejection mode flag (0/1)
(float)  -std distance std value for rejection
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)    -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)  -help displays this message
(noarg)  -data displays the help concerning Data Format parameter
```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C2	input : covariance C2	output parameters derived from covariance
C2		

C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		
SPP	input : dual-pol SPP	output parameters derived from C3
IPP	input : intensities IPP	output parameters derived from IPP

surface_inversion_dubois.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(string) -ang incidence angle file
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
(float)   -fr  Central Frequency (GHz)
(int)     -un  Angle Unit (0: deg, 1: rad)
(int)     -caf Calibration Flag
(float)   -cac Calibration Coefficient
(float)   -th1 Threshold - HHHH/VVVV
(float)   -th2 Threshold - HVHV/VVVV
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)     -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)   -help displays this message
(noarg)   -data displays the help concerning Data Format parameter
```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

surface_inversion_histo.exe

Parameters:

```

(string) -id input directory
(string) -iodf input-output data format
(string) -hvvv output file (ratio HVHV / VVVV)
(string) -hhvv output file (ratio HHHH / VVVV)
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

```

Optional Parameters:

```

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

surface_inversion_oh.exe

Parameters:

```

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(string) -ang incidence angle file
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(int) -un Angle Unit (0: deg, 1: rad)
(float) -th1 Threshold - HHHH/VVVV
(float) -th2 Threshold - HVHV/VVVV

```

Optional Parameters:

```

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

surface_inversion_oh2004.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(string) -ang incidence angle file
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
(float)   -fr  Central Frequency (GHz)
(int)     -un  Angle Unit (0: deg, 1: rad)
(float)   -th1 Threshold - mv
(float)   -th2 Threshold - s
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)     -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)   -help displays this message
(noarg)   -data displays the help concerning Data Format parameter
```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

surface_inversion_xbragg.exe

Parameters:

```
(string) -id  input directory
```

```

(string) -od    output directory
(string) -iodf  input-output data format
(string) -ang   incidence angle file
(int)      -nwr  Nwin Row
(int)      -nwc  Nwin Col
(int)      -ofr  Offset Row
(int)      -ofc  Offset Col
(int)      -fnr  Final Number of Row
(int)      -fnc  Final Number of Col
(int)      -un   Angle Unit (0: deg, 1: rad)
(float)    -dif  dielectric factor
(float)    -bef  beta factor

```

Optional Parameters:

```

(string) -mask mask file (valid pixels)
(int)    -mem  Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)  -help displays this message
(noarg)  -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

texture_analysis.exe

Parameters:

```

(string) -if    input file
(string) -of    output file
(string) -ta    texture analysis (VI, VA, VL, U)
(string) -idf   input data format (cmplx, float, int)
(string) -odf   output data format (real, imag, mod, mod2, db, pha)
(int)     -nwr  Nwin Row
(int)     -nwc  Nwin Col
(int)     -inc  Initial Number of Col
(int)     -ofr  Offset Row
(int)     -ofc  Offset Col
(int)     -fnr  Final Number of Row
(int)     -fnc  Final Number of Col

```

Optional Parameters:

```

(string) -mask mask file (valid pixels)
(int)    -mem  Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)  -help displays this message

```

texture_statistics.exe

Parameters:

(string) -if input file
(string) -of output file
(string) -ta texture analysis (mean, homogeneity, contrast, dissimilarity, entropy, uniformity)
(string) -idf input data format (cmplx, float, int)
(string) -odf output data format (real, imag, mod, mod2, db, pha)
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -inc Initial Number of Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(int) -dir direction (0, 45, 90, 135)
(int) -col number of colors

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

training_set_sampler.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(string) -af input area file
(string) -cf output cluster file
(int) -bmp BMP flag (0/1)
(string) -col input colormap file (valid if BMP flag = 1)

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C2	input : covariance C2	output parameters derived from covariance
C2		
C3	input : covariance C3	output parameters derived from covariance
C3		

C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		
SPP	input : dual-pol SPP	output parameters derived from C3
IPP	input : intensities IPP	output parameters derived from IPP

tree_classifier.exe

Parameters:

```
(string) -irf input rule file
(string) -ipf input parameters file
(string) -od output directory
(int)    -fnr Final Number of Row
(int)    -fnc Final Number of Col
(int)    -nit number of iterations
(int)    -pct minimum purcentage
(int)    -col colormap
```

Optional Parameters:

```
(noarg)  -help displays this message
```

tsvm_decomposition.exe

Parameters:

```
(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int)    -nwr Nwin Row
(int)    -nwc Nwin Col
(int)    -ofr Offset Row
(int)    -ofc Offset Col
(int)    -fnr Final Number of Row
(int)    -fnc Final Number of Col
(int)    -fl1 Flag AlpPhiTauPsi
(int)    -fl2 Flag Alpha
(int)    -fl3 Flag Phi
(int)    -fl4 Flag Tau
(int)    -fl5 Flag Psi
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)    -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)  -help displays this message
(noarg)  -data displays the help concerning Data Format parameter
```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

vanzy192_3components_decomposition.exe

Parameters:

```
(string) -id  input directory
(string) -od  output directory
(string) -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
(int)     -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)   -help displays this message
(noarg)   -data displays the help concerning Data Format parameter
```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

vanzy192_3components_reconstruction.exe

Parameters:

```
(string) -id  input directory
(string) -od1 output directory - ground
(string) -od2 output directory - double
(string) -od3 output directory - volume
(string) -iodf input-output data format
(int)     -nwr Nwin Row
(int)     -nwc Nwin Col
(int)     -ofr Offset Row
(int)     -ofc Offset Col
(int)     -fnr Final Number of Row
(int)     -fnc Final Number of Col
```

Optional Parameters:

```
(string) -mask mask file (valid pixels)
```

(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

wishart_confusion_matrix.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -af input area file
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(int) -bmp BMP flag (0/1)
(int) -rej Rejection flag (0/1)
(string) -col input colormap file (valid if BMP flag = 1)

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

wishart_h_a_alpha_classifier.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col
(string) -hf input entropy file
(string) -af input anisotropy file
(string) -alf input alpha file
(int) -nit maximum iteration number

```

(float)  -pct maximum of pixel switching classes
(int)    -bmp BMP flag (0/1)
(string) -co8 input colormap8 file (valid if BMP flag = 1)
(string) -col6 input colormap16 file (valid if BMP flag = 1)

```

Optional Parameters:

```

(string) -mask mask file (valid pixels)
(int)    -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)  -help displays this message
(noarg)  -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		

wishart_h_a_alpha_classifierSPPC2.exe

Parameters:

Parameters:

```

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int)    -nwr Nwin Row
(int)    -nwc Nwin Col
(int)    -ofr Offset Row
(int)    -ofc Offset Col
(int)    -fnr Final Number of Row
(int)    -fnc Final Number of Col
(string) -hf input entropy file
(string) -af input anisotropy file
(string) -alf input alpha file
(int)    -nit maximum iteration number
(float)  -pct maximum of pixel switching classes
(int)    -bmp BMP flag (0/1)
(string) -co8 input colormap8 file (valid if BMP flag = 1)
(string) -col6 input colormap16 file (valid if BMP flag = 1)

```

Optional Parameters:

```

(string) -mask mask file (valid pixels)
(int)    -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg)  -help displays this message
(noarg)  -data displays the help concerning Data Format parameter

```

Usage:*Polarimetric Input-Output Data Format*

SPP	input : dual-pol SPP	output parameters derived from C3
C2	input : covariance C2	output parameters derived from covariance C2

wishart_supervised_classifier.exe*Parameters:*

(string)	-id	input directory
(string)	-od	output directory
(string)	-iodf	input-output data format
(string)	-af	input area file
(int)	-nwr	Nwin Row
(int)	-nwc	Nwin Col
(int)	-ofr	Offset Row
(int)	-ofc	Offset Col
(int)	-fnr	Final Number of Row
(int)	-fnc	Final Number of Col
(string)	-cf	input cluster file
(int)	-bmp	BMP flag (0/1)
(string)	-col	input colormap file (valid if BMP flag = 1)
(int)	-rej	rejection mode flag (0/1)
(float)	-std	distance std value for rejection

Optional Parameters:

(string)	-mask	mask file (valid pixels)
(int)	-mem	Allocated memory for blocksize determination (in Mb)
(string)	-errf	memory error file
(noarg)	-help	displays this message
(noarg)	-data	displays the help concerning Data Format parameter

Usage:*Polarimetric Input-Output Data Format*

S2	input : quad-pol S2	output parameters derived from C3 or T3
C2	input : covariance C2	output parameters derived from covariance C2
C3	input : covariance C3	output parameters derived from covariance C3
C4	input : covariance C4	output parameters derived from covariance C4
T3	input : coherency T3	output parameters derived from coherency T3
T4	input : coherency T4	output parameters derived from coherency T4
SPP	input : dual-pol SPP	output parameters derived from C3
IPP	input : intensities IPP	output parameters derived from IPP

wishart_training_set_sampler.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(string) -af input area file
(string) -cf output cluster file
(int) -bmp BMP flag (0/1)
(string) -col input colormap file (valid if BMP flag = 1)

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message
(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C2	input : covariance C2	output parameters derived from covariance
C2		
C3	input : covariance C3	output parameters derived from covariance
C3		
C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		
SPP	input : dual-pol SPP	output parameters derived from C3
IPP	input : intensities IPP	output parameters derived from IPP

yamaguchi_3components_decomposition.exe

Parameters:

(string) -id input directory
(string) -od output directory
(string) -iodf input-output data format
(int) -nwr Nwin Row
(int) -nwc Nwin Col
(int) -ofr Offset Row
(int) -ofc Offset Col
(int) -fnr Final Number of Row
(int) -fnc Final Number of Col

Optional Parameters:

(string) -mask mask file (valid pixels)
(int) -mem Allocated memory for blocksize determination (in Mb)
(string) -errf memory error file
(noarg) -help displays this message

(noarg) -data displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

yamaguchi_3components_reconstruction.exe

Parameters:

(string)	-id	input directory
(string)	-od1	output directory - ground
(string)	-od2	output directory - double
(string)	-od3	output directory - volume
(string)	-iodf	input-output data format
(int)	-nwr	Nwin Row
(int)	-nwc	Nwin Col
(int)	-ofr	Offset Row
(int)	-ofc	Offset Col
(int)	-fnr	Final Number of Row
(int)	-fnc	Final Number of Col

Optional Parameters:

(string)	-mask	mask file (valid pixels)
(int)	-mem	Allocated memory for blocksize determination (in Mb)
(string)	-errf	memory error file
(noarg)	-help	displays this message
(noarg)	-data	displays the help concerning Data Format parameter

Usage:

Polarimetric Input-Output Data Format

S2	input : quad-pol S2	output parameters derived from C3 or T3
C3	input : covariance C3	output parameters derived from covariance
C3		
T3	input : coherency T3	output parameters derived from coherency
T3		

yamaguchi_4components_decomposition.exe

Parameters:

(string)	-id	input directory
(string)	-od	output directory
(string)	-iodf	input-output data format
(string)	-mod	decomposition mode (Y4O, Y4R, S4R)
(int)	-nwr	Nwin Row


```

(int)      -nwc  Nwin Col
(int)      -ofr  Offset Row
(int)      -ofc  Offset Col
(int)      -fnr  Final Number of Row
(int)      -fnc  Final Number of Col

```

Optional Parameters:

```

(string)   -mask mask file (valid pixels)
(int)      -mem  Allocated memory for blocksize determination (in Mb)
(string)   -errf memory error file
(noarg)    -help displays this message
(noarg)    -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

```

S2      input : quad-pol S2      output parameters derived from C3 or T3
C3      input : covariance C3    output parameters derived from covariance
C3
T3      input : coherency T3     output parameters derived from coherency
T3

```

[zdr_elements.exe](#)

Parameters:

```

(string)   -id   input directory
(string)   -od   output directory
(string)   -iodf input-output data format
(int)      -nwr  Nwin Row
(int)      -nwc  Nwin Col
(int)      -ofr  Offset Row
(int)      -ofc  Offset Col
(int)      -fnr  Final Number of Row
(int)      -fnc  Final Number of Col
(string)   -rat  Ratio Element (lin, db)

```

Optional Parameters:

```

(string)   -mask mask file (valid pixels)
(int)      -mem  Allocated memory for blocksize determination (in Mb)
(string)   -errf memory error file
(noarg)    -help displays this message
(noarg)    -data displays the help concerning Data Format parameter

```

Usage:

Polarimetric Input-Output Data Format

```

S2      input : quad-pol S2      output parameters derived from C3 or T3
C2      input : covariance C2    output parameters derived from covariance
C2
C3      input : covariance C3    output parameters derived from covariance
C3

```

C4	input : covariance C4	output parameters derived from covariance
C4		
T3	input : coherency T3	output parameters derived from coherency
T3		
T4	input : coherency T4	output parameters derived from coherency
T4		
SPP	input : dual-pol SPP	output parameters derived from C3
IPP	input : intensities IPP	output parameters derived from IPP