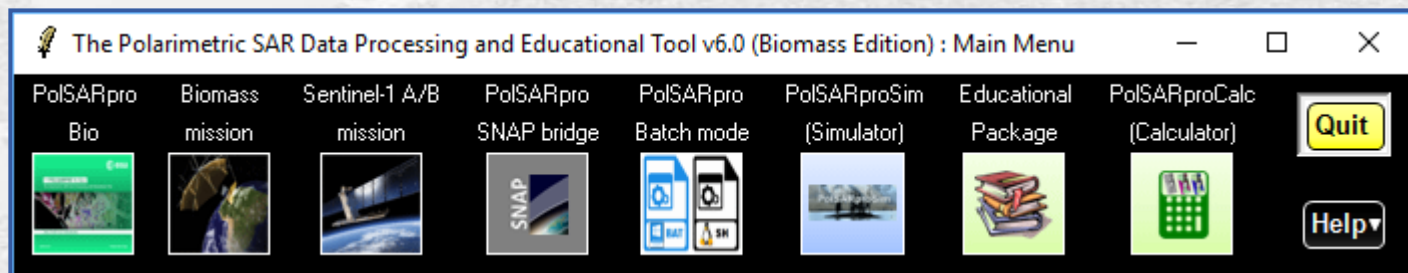
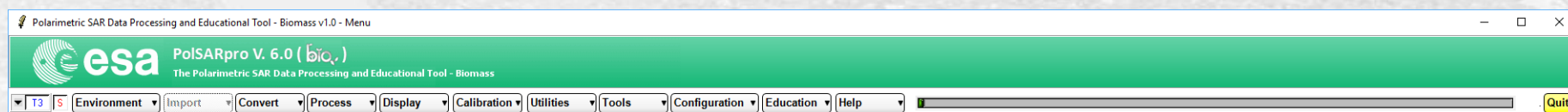
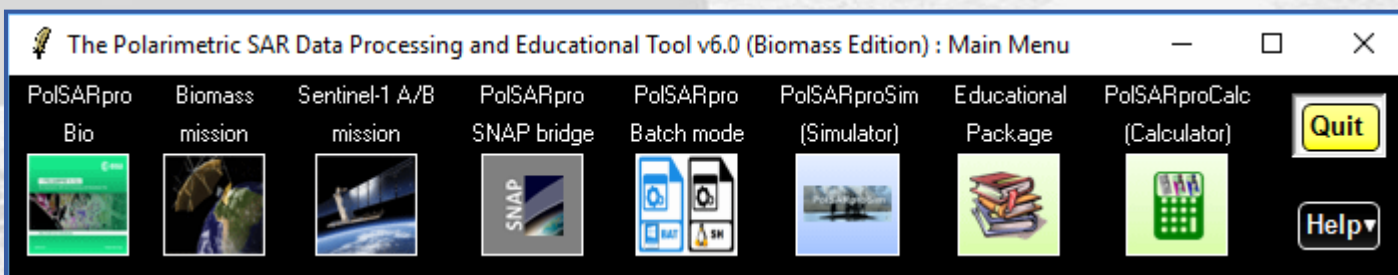
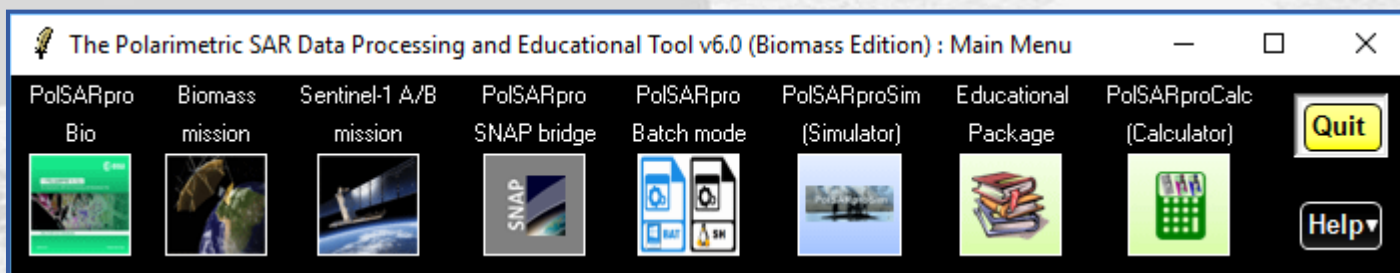


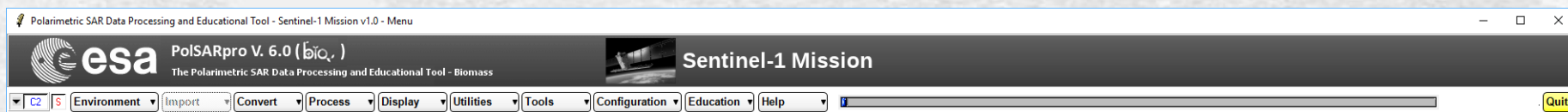
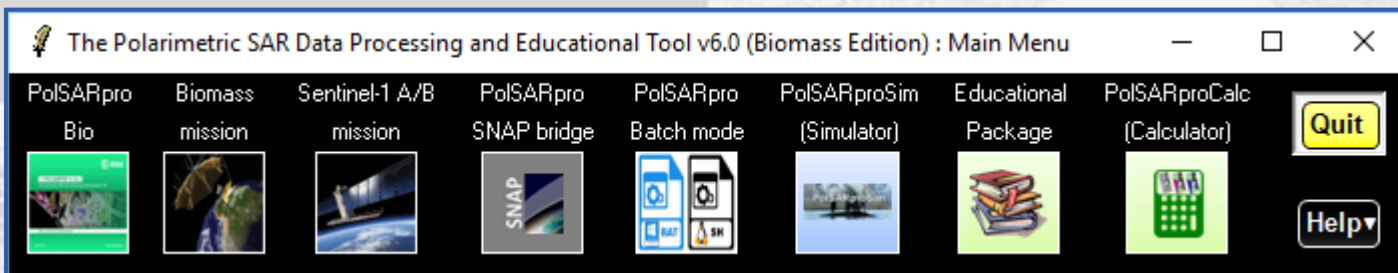
ENTRY SCREEN

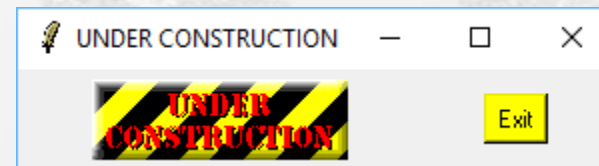
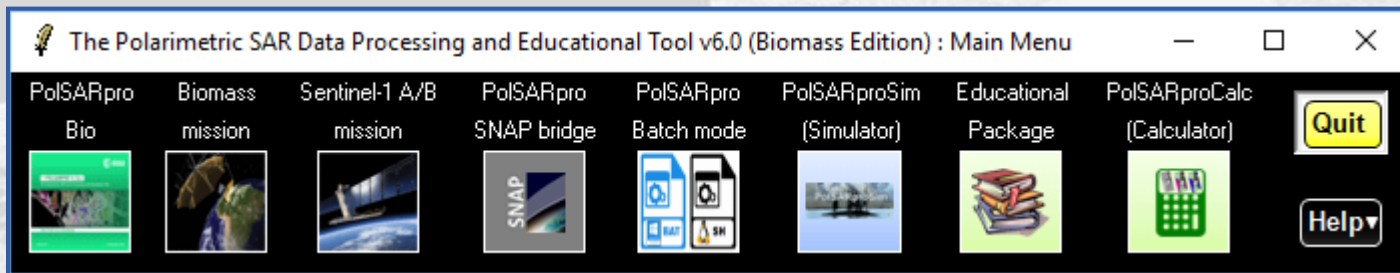


MAIN WINDOW

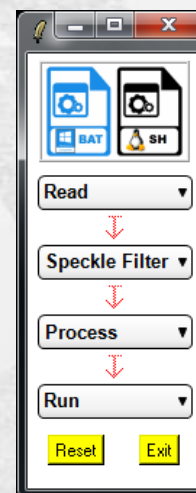
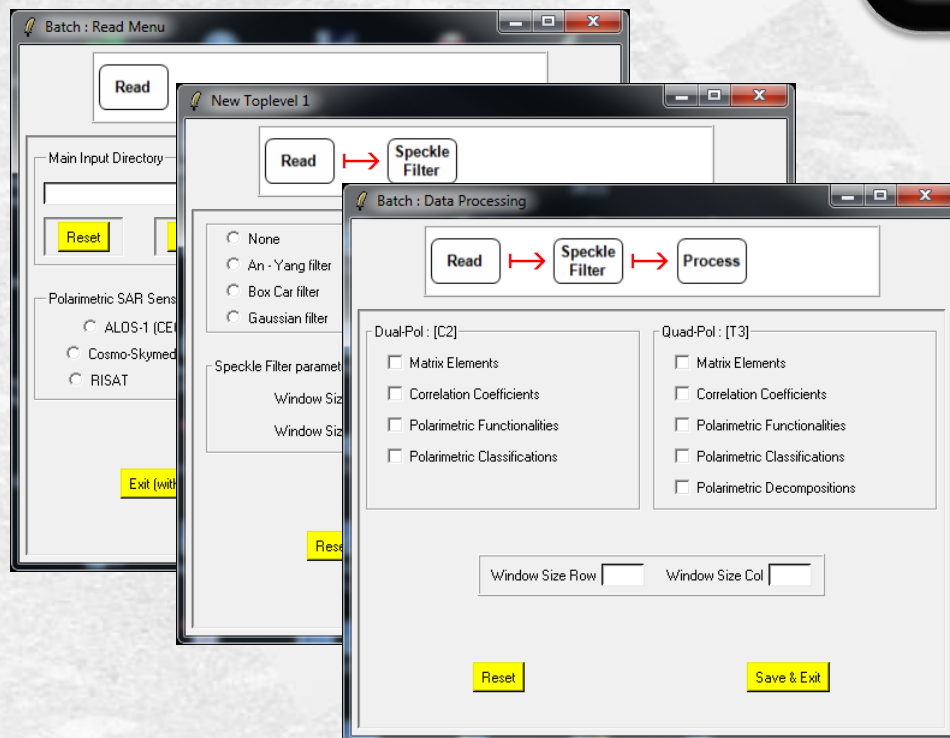
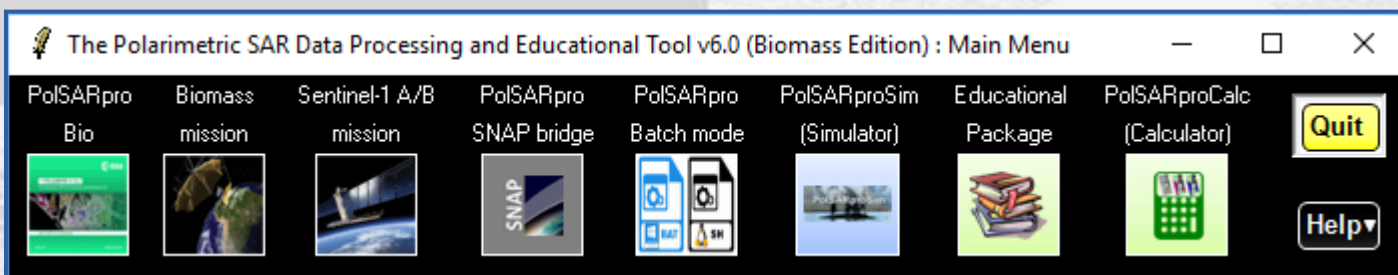






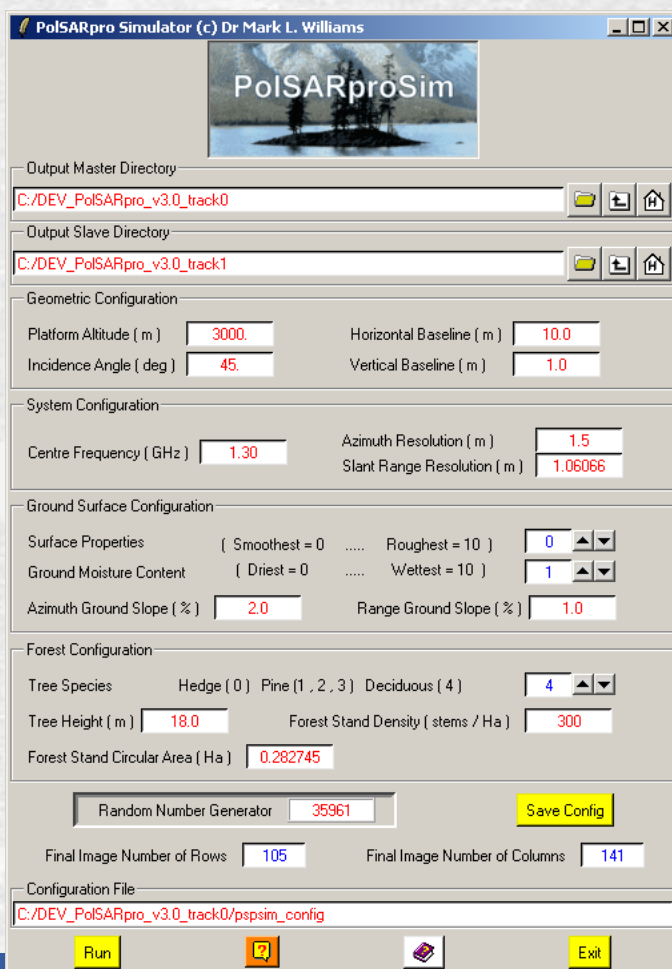
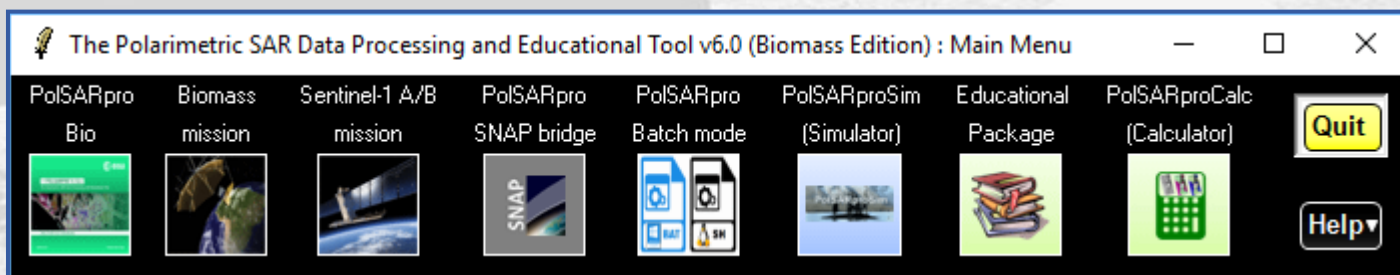


- **S1 toolbox**
(split, deburst, merge ...)
- **Geocoding toolbox**
- **Terrain correction**
- **Interferometric toolbox**
(co-registration, flat Earth estimation ...)



PolSARpro Batch Mode

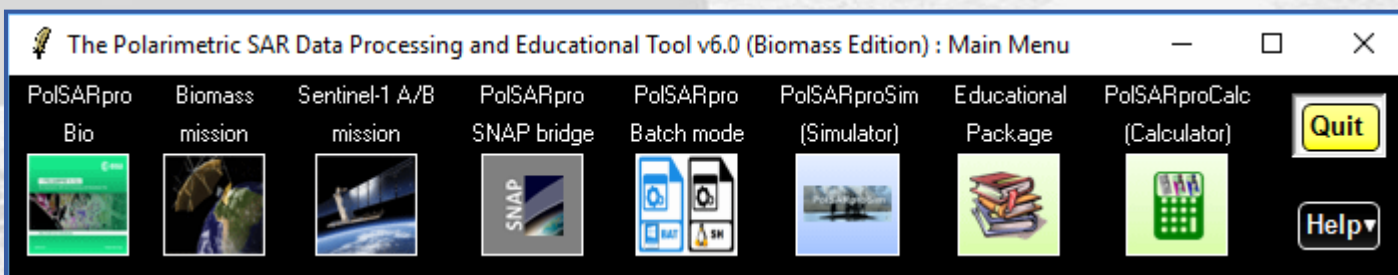
Create a bat (windows) or a sh (linux) file to run different polarimetric data processes in a batch processing mode.



PolSARpro - Sim

This educational tool creates and provides simulated test data of sufficient fidelity to be used to illustrate the concepts of Pol-InSAR when applied on ground surface, ground surface covered with low vegetation or forest stands.

This simulator is developed by Mark Williams ©



PolSARpro - Calc

This tool proposes a Polarimetric Pocket Calculator offering basic processing functionalities which are applied on a set of SAR Polarimetric datasets.

PolSARpro Calculator v1.0

Op #1 / Op#1 Operator (Op#2) Op #2

Operand #1
File Mat S / M 2x2 mat 3x3 mat 4x4 mat

STO RCL MC AC

Input File
Input File Data Format Init Row End Row Init Col End Col OK

Input Matrix Directory
Input Matrix Data Format Init Row End Row Init Col End Col OK

Input Value Type
Complex Value Float Value Integer Value Input Value +j OK

N x N Matrix
Complex Float Hermitian Special Unitary OK

m11	+j	m12	+j	m13	+j	m14	+j
m21	+j	m22	+j	m23	+j	m24	+j
m31	+j	m32	+j	m33	+j	m34	+j
m41	+j	m42	+j	m43	+j	m44	+j

Load Save

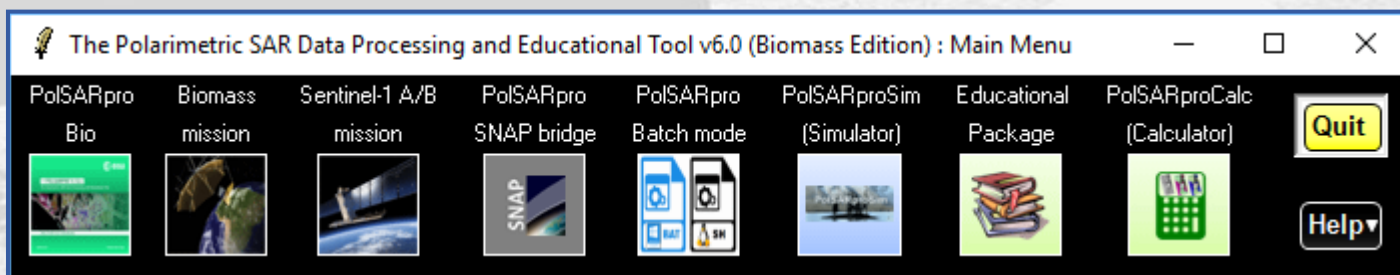
Output Value
 +j Exec Save Exit

Operator : File
☐ (file) + value ☐ (file) - value ☐ (file) * value ☐ (file) / value
☐ (file) .+ (file) ☐ (file) .- (file) ☐ (file) .* (file) ☐ (file) ./ (file)
☐ .real (.) ☐ .imag (.) ☐ .arg (.) ☐ .abs (.)
☐ .cos (.) ☐ .sin (.) ☐ .tan (.) ☐ .conj (.)
☐ .acos (.) ☐ .asin (.) ☐ .atan (.) ☐ .boxcar { ?x ? }
☐ .sqrt (.) ☐ .(.)^2 ☐ .(.)^3 ☐ .(.)^(?)
☐ .log (.) ☐ .ln (.) ☐ .10^(.) ☐ .exp (.)
☐ .10log (.) ☐ .20log (.) ☐ .(.) < (?) ☐ .(.) > (?) OK

Operator : Sinclair Matrix : S2
☐ [S] + value ☐ [S] - value ☐ [S] * value ☐ [S] / value
☐ [S] .+ (file) ☐ [S] .- (file) ☐ [S] .* (file) ☐ [S] ./ (file)
☐ [S] .+ [S'] ☐ [S] .+ [mat] ☐ [S] .* [S'] ☐ [S] .* [mat] OK
☐ [S] .* [S] ☐ [U] .* [S] .* [U] ☐ ☐
☐ .conj [S] ☐ .tr [S] ☐ .det [S] ☐ .inv [S]
☐ .eig1 [S] ☐ .eig2 [S] ☐ .eig1 [G] ☐ .eig2 [G] OK

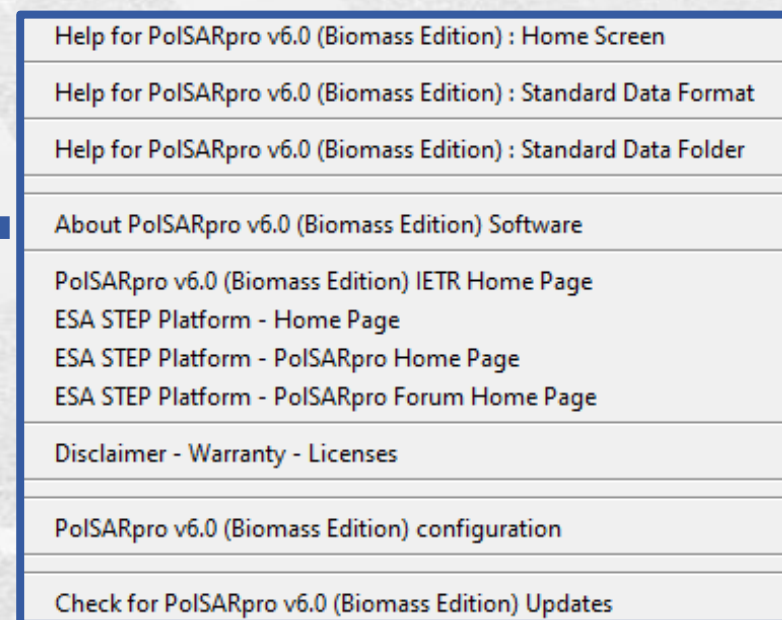
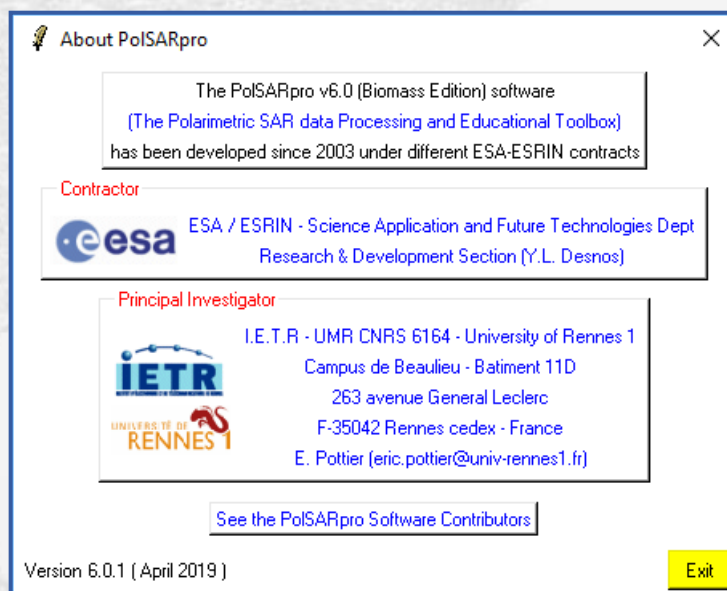
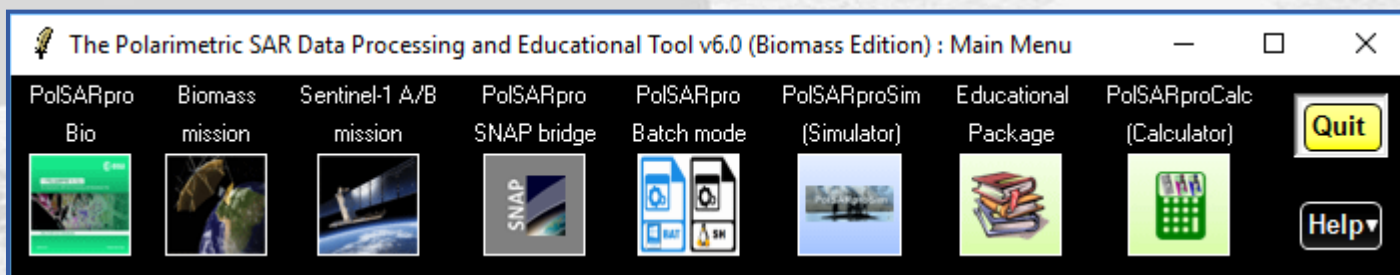
Operator : Hermitian Matrix : C2, C3, C4, T2, T3, T4
☐ [M] + value ☐ [M] - value ☐ [M] * value ☐ [M] / value
☐ [M] .+ (file) ☐ [M] .- (file) ☐ [M] .* (file) ☐ [M] ./ (file)
☐ [M] .+ [M'] ☐ [M] .+ [mat] ☐ .inv [M] ☐ [U] .* [M] .* inv [U] OK
☐ .conj [M] ☐ .tr [M] ☐ .det [M] ☐ tr [inv [mat] .* [M]]
☐ .eig1 [M] ☐ .eig2 [M] ☐ .eig3 [M] ☐ .eig4 [M] OK

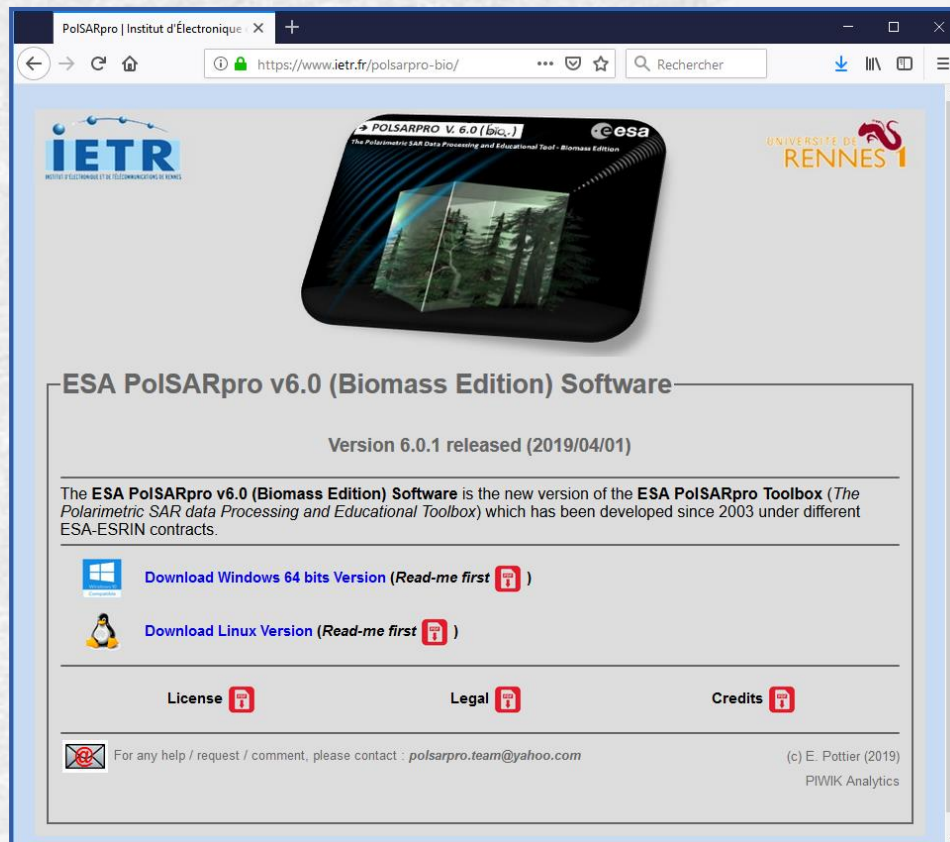
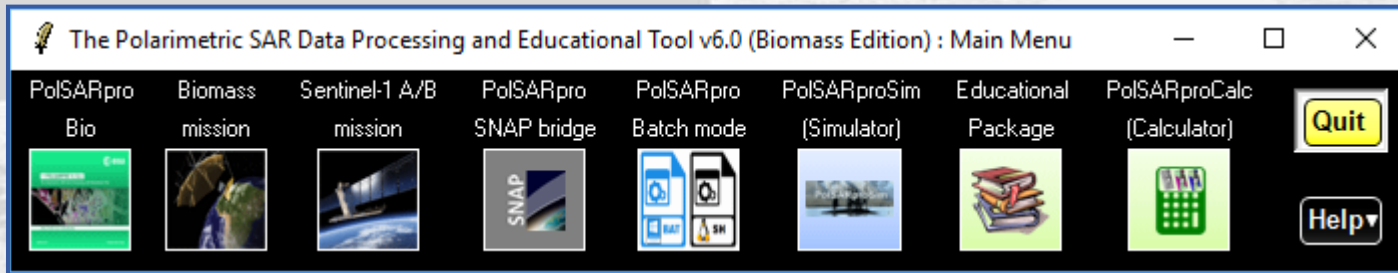
Operator : Complex / Hermitian / Float / Special Unitary NxN Matrix
☐ [mat] + value ☐ [mat] - value ☐ [mat] * value ☐ [mat] / value
☐ [mat] .+ [mat'] ☐ [mat] .- [mat'] ☐ [mat] .* [mat'] ☐ [mat] ./ [mat']
☐ .det [mat] ☐ .tr [mat] ☐ .conj [mat] ☐ .inv [mat] OK
☐ .eig1 [mat] ☐ .eig2 [mat] ☐ .eig3 [mat] ☐ .eig4 [mat] OK



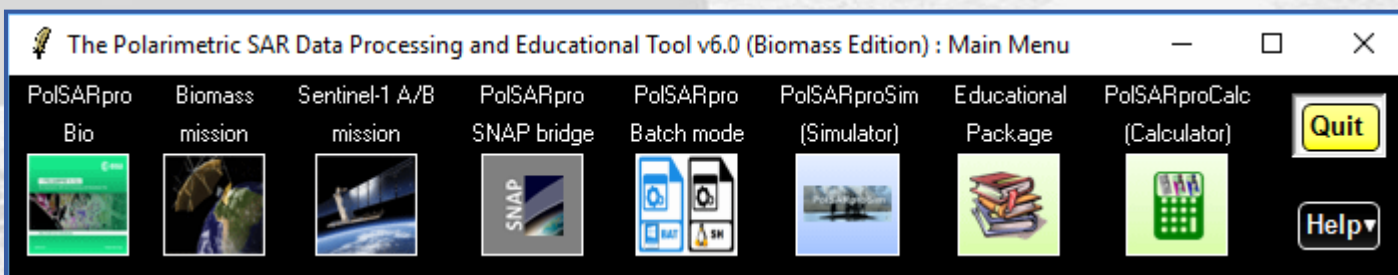
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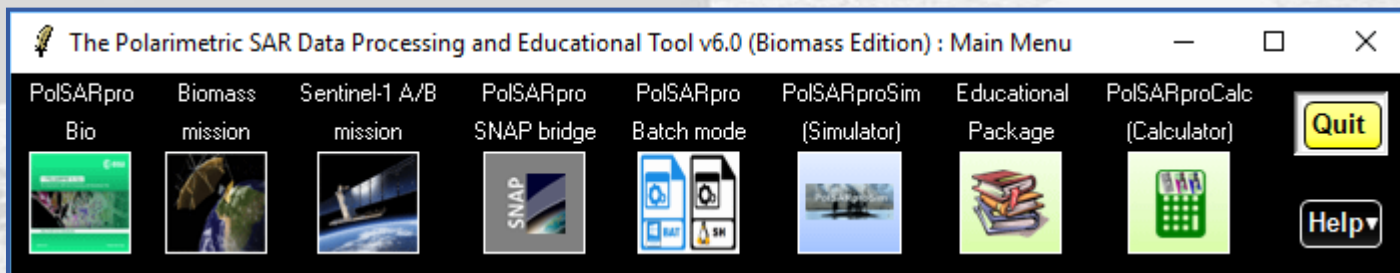


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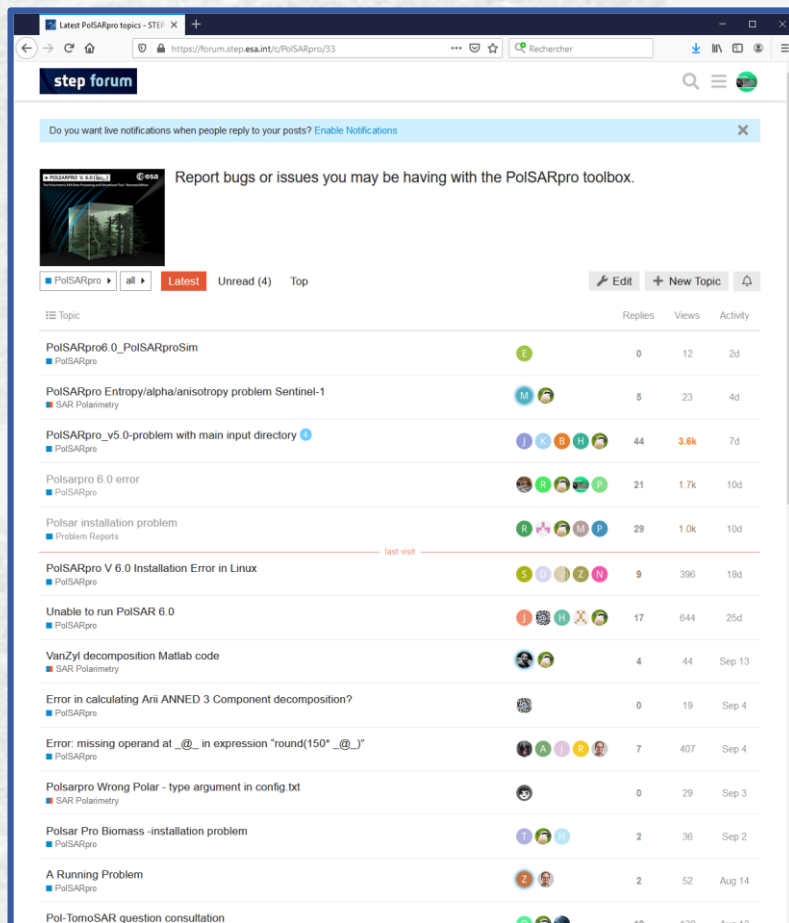
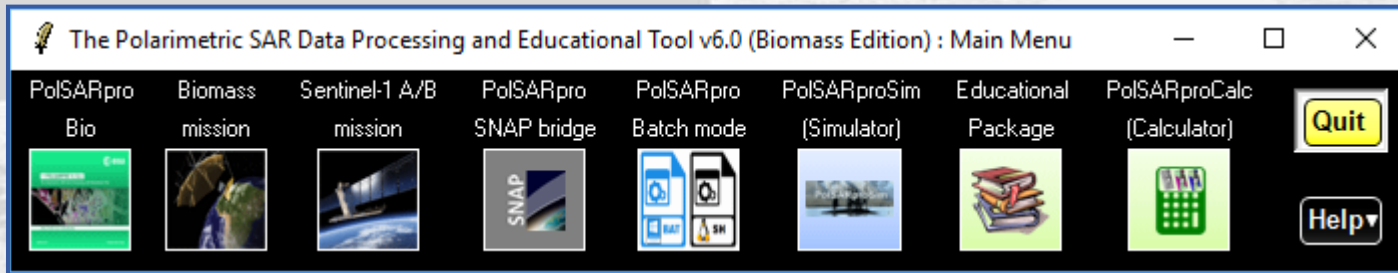


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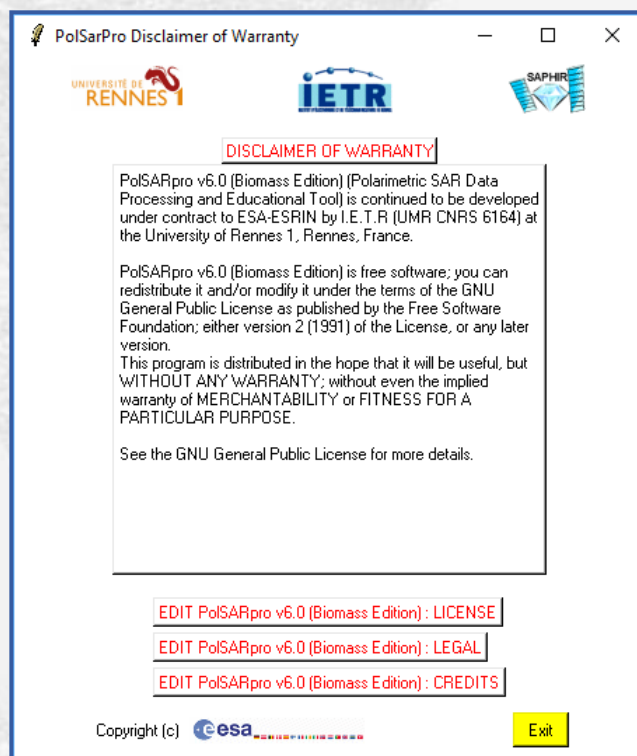
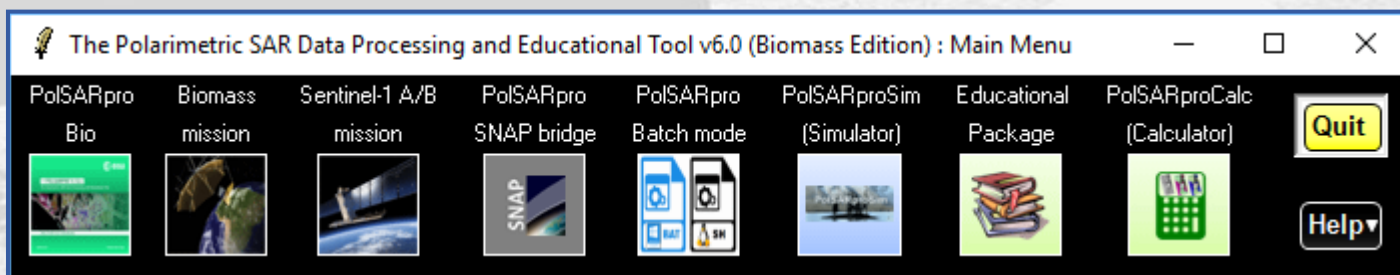




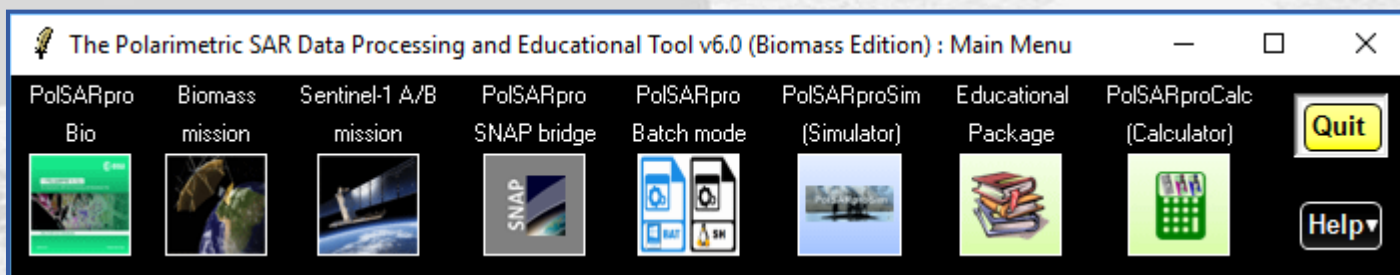
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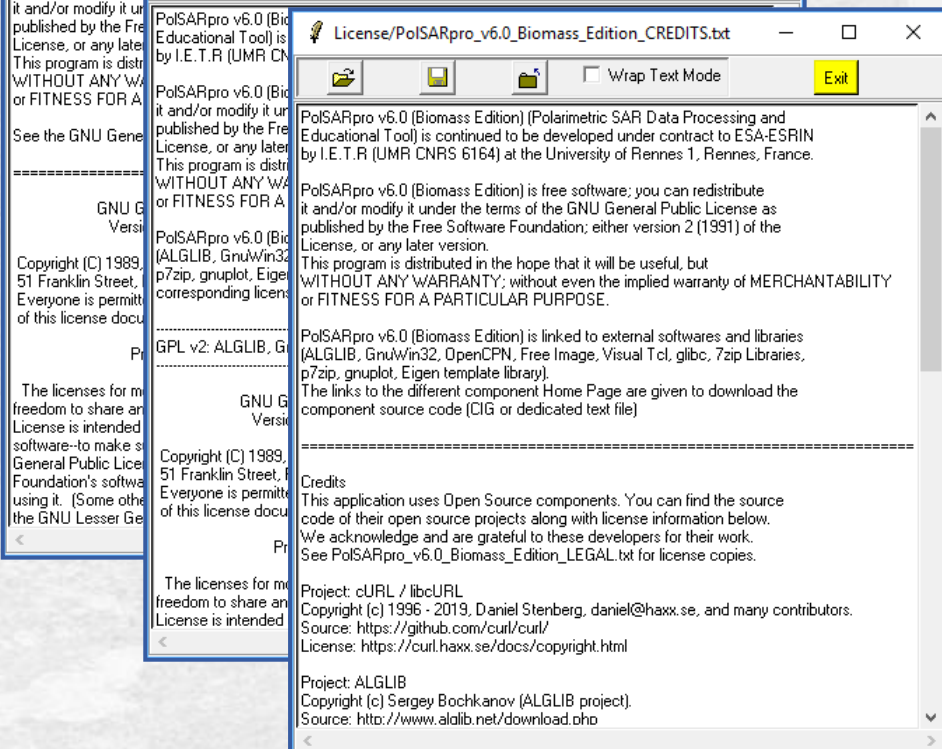
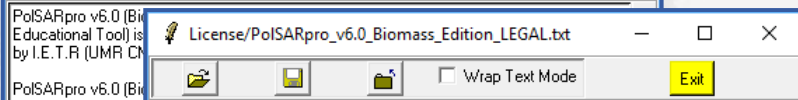
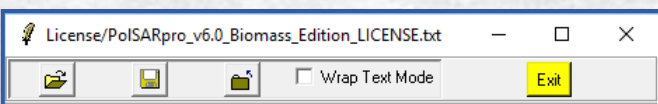
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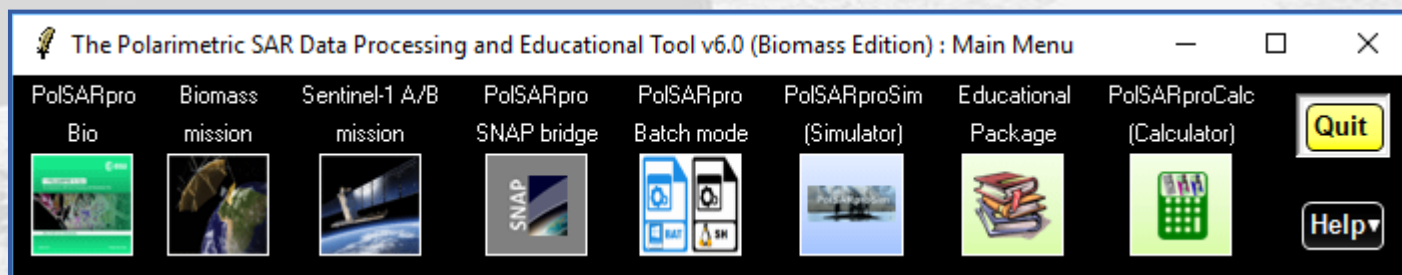


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