

PROCESSING LEVEL-1 IMAGES WITH THE ACOLITE GUI

1. Download acolite_py_mac

a. Download from <https://odnature.naturalsciences.be/remsem/software-and-data/acolite>

2. Launch acolite



acolite

a. May have to right click to open because your Mac can't confirm the identity of the developer.

3. Settings

ACOLITE Python (v20190326.0)

Input and output

Input: Select input...

Output: Select output...

Region of interest (decimal degrees)

South	North	West	East	
<input type="text" value="37.089637"/>	<input type="text" value="37.805213"/>	<input type="text" value="-76.066968"/>	<input type="text" value="-75.555876"/>	Clear

Output options

L2W parameters:

PNG outputs: ☒ RGB RHOT ☒ RGB RHOS ☒ L2W parameters

Save or restore settings: Save Restore

Run processing Stop processing

Exit

Logging output

```
Selected /Volumes/harddrive/1MAY2019/LC08_L1TP_014034_20190501_20190508_01_T1 as input file.
Selected /Volumes/harddrive/1MAY2019/LC08_L1TP_014034_20190501_20190508_01_T1 as output directory.
Running ACOLITE processing
Logging to file /Volumes/harddrive/1MAY2019/LC08_L1TP_014034_20190501_20190508_1_T1/acolite_run_20210131_134841_log.txt
Logging disabled in GUI window until processing is complete.
Finished processing.
```

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a. Set your input and output to your Level-1 image folder.

b. Set L2W parameters: Copy and paste:

Rrs_,kd443_qaasw,kd490_qaasw,kd560_qaasw,kd665_qaasw,chl_re_moses3b,chl_re_moses3b740*

4. Run processing

5. Extracting data with MATLAB

a. MATLAB code must be modified slightly. Use DataExtractionAcolite.mlx to extract data from NetCDF file and implement ocean color algorithms.