Unit 3 - Batch Processing

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Phytoplankton from space: intro to ocean color – 29 & 30 June 2019
Ocean Optics & Ocean Color Remote Sensing

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Contents

- Practical (short) course on ocean colour (OC)remote sensing using **Sentinel Application Platform** (SNAP).

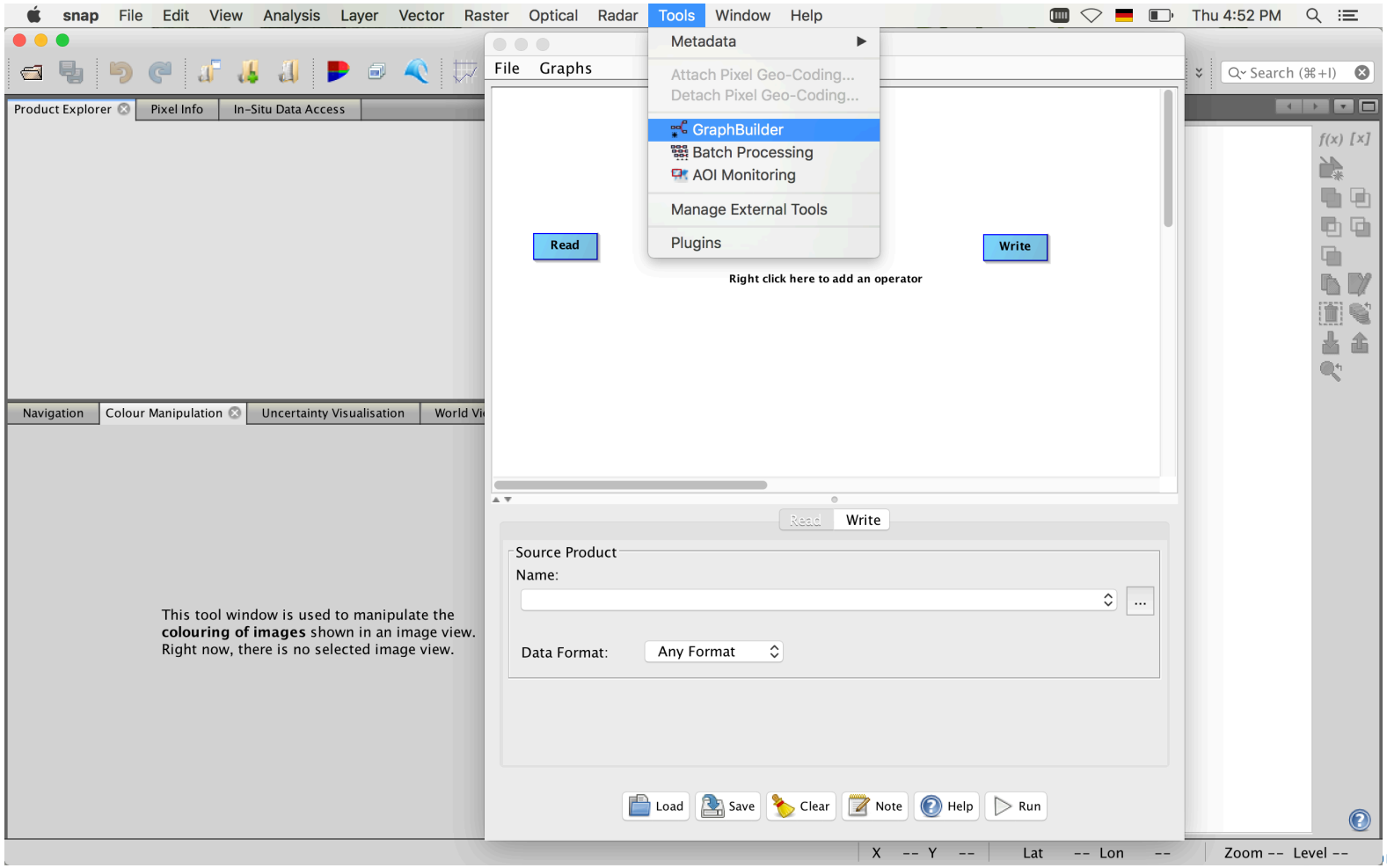
- Lectures:
  - **Unit 1 :**
    - Ocean colour data (sensors, data archives and processing levels)
    - Exploring OC data using SNAP

  - **Unit 2:**
    - Validation Tools

  - **Unit 3:**
    - Batch Processing

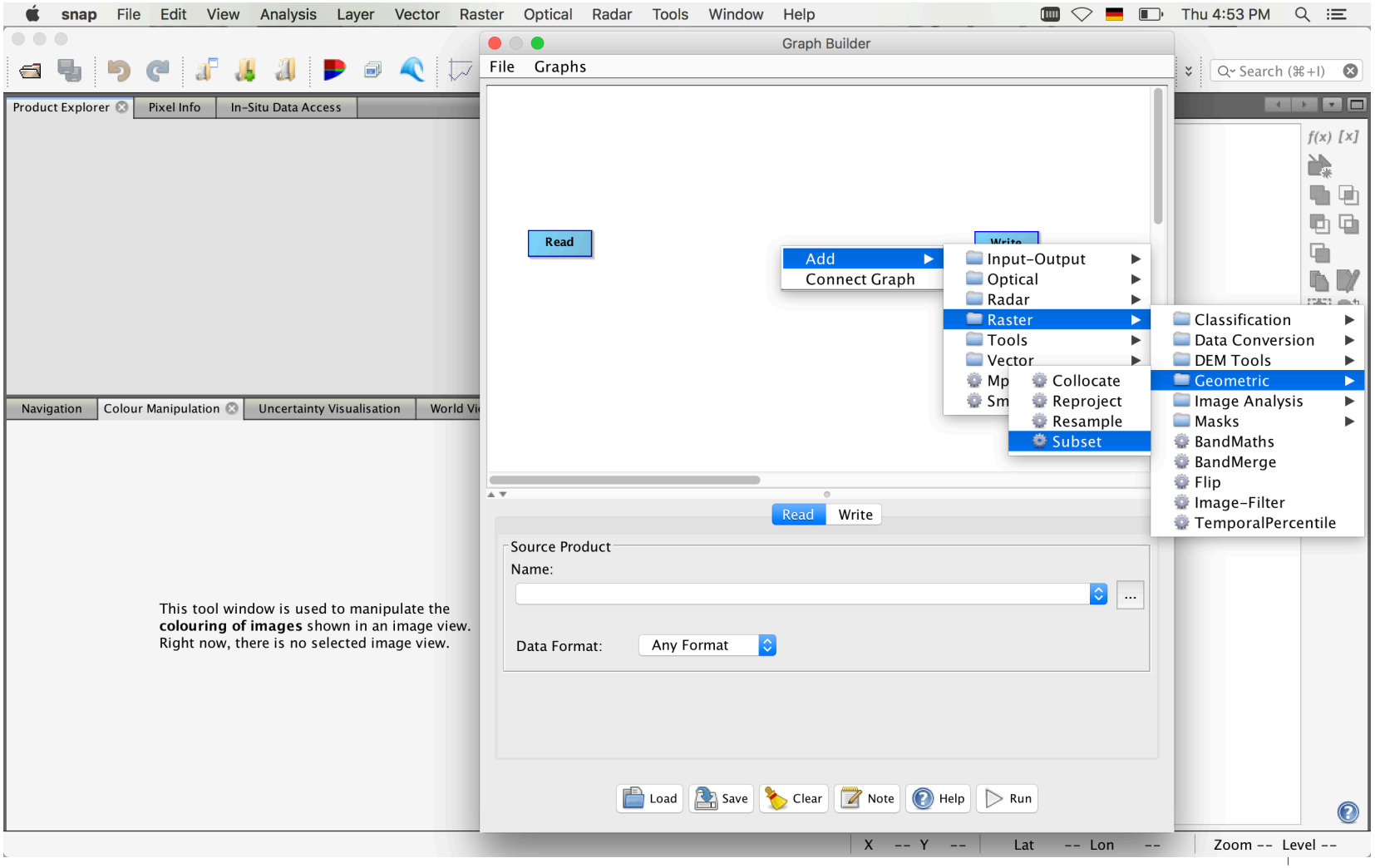
SNAP: Batch Subset (Graph builder + Batch processing)

1. Build your graph: Tools → Graph Builder



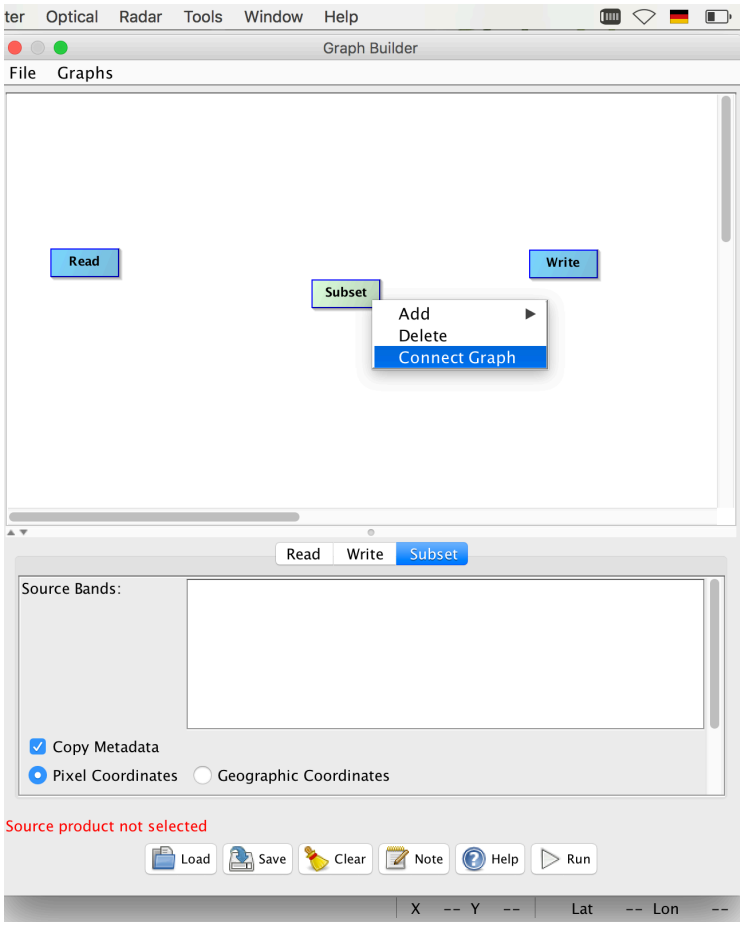
SNAP: Batch Subset (Graph builder + Batch processing)

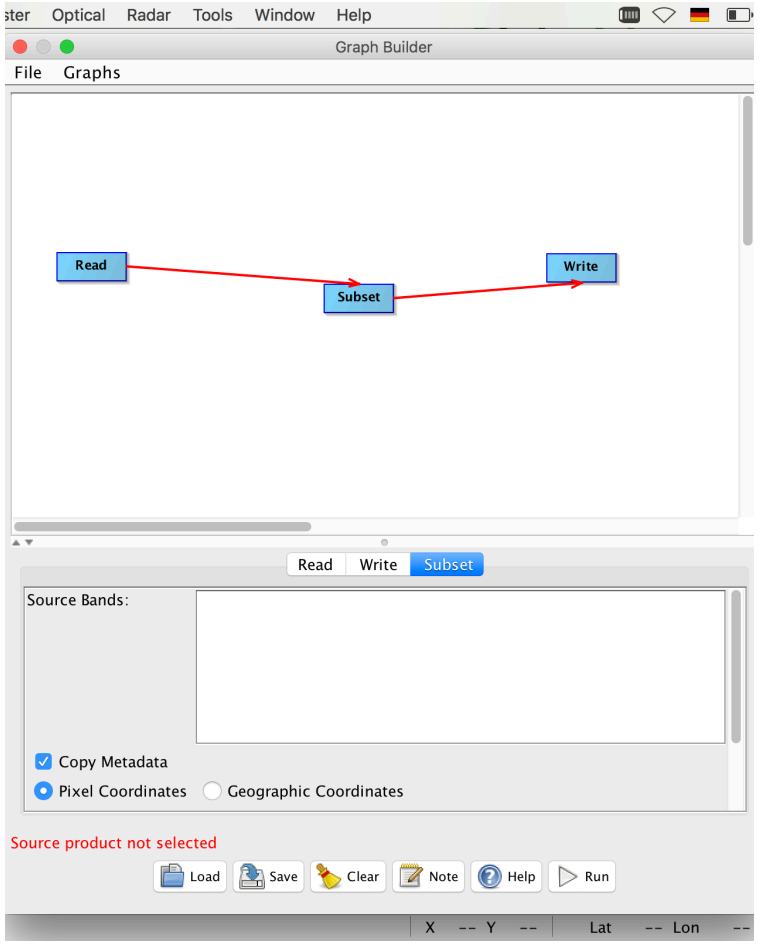
- right click to add new operators



SNAP: Batch Subset (Graph builder + Batch processing)

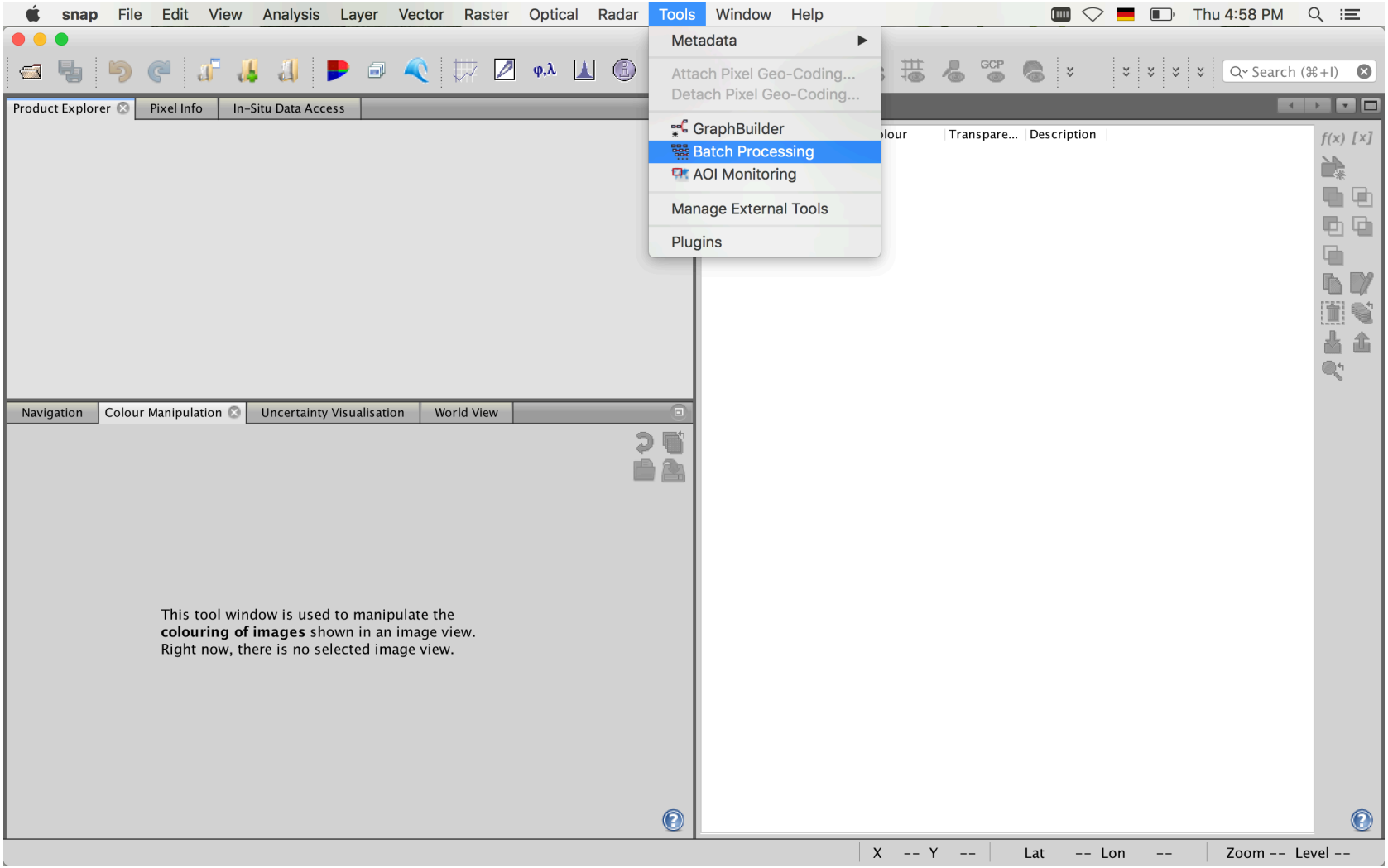
- right click “connect graph” and save it





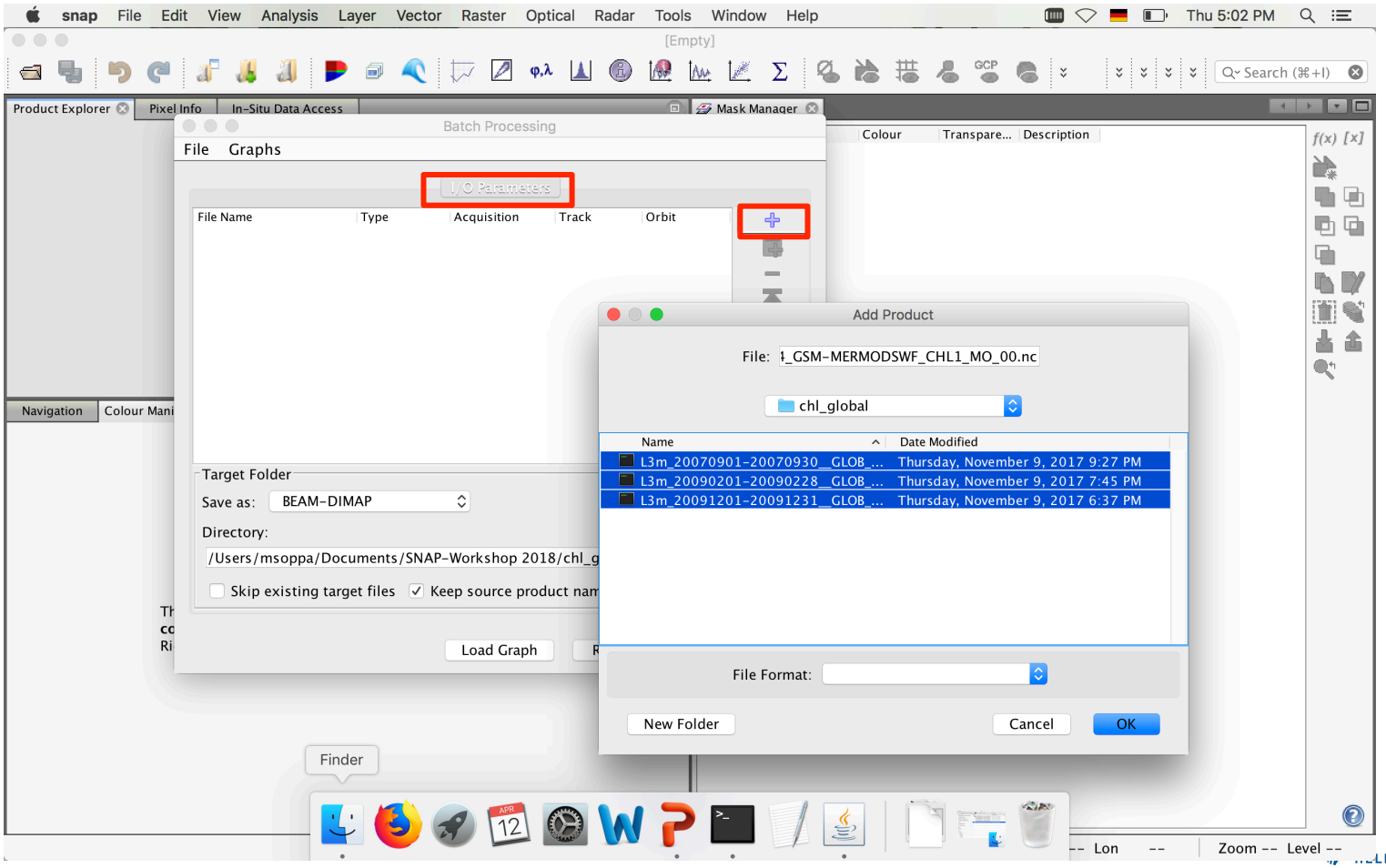
SNAP: Batch Subset (Graph builder + Batch processing)

- Go to batch processing: Tools → batch processing



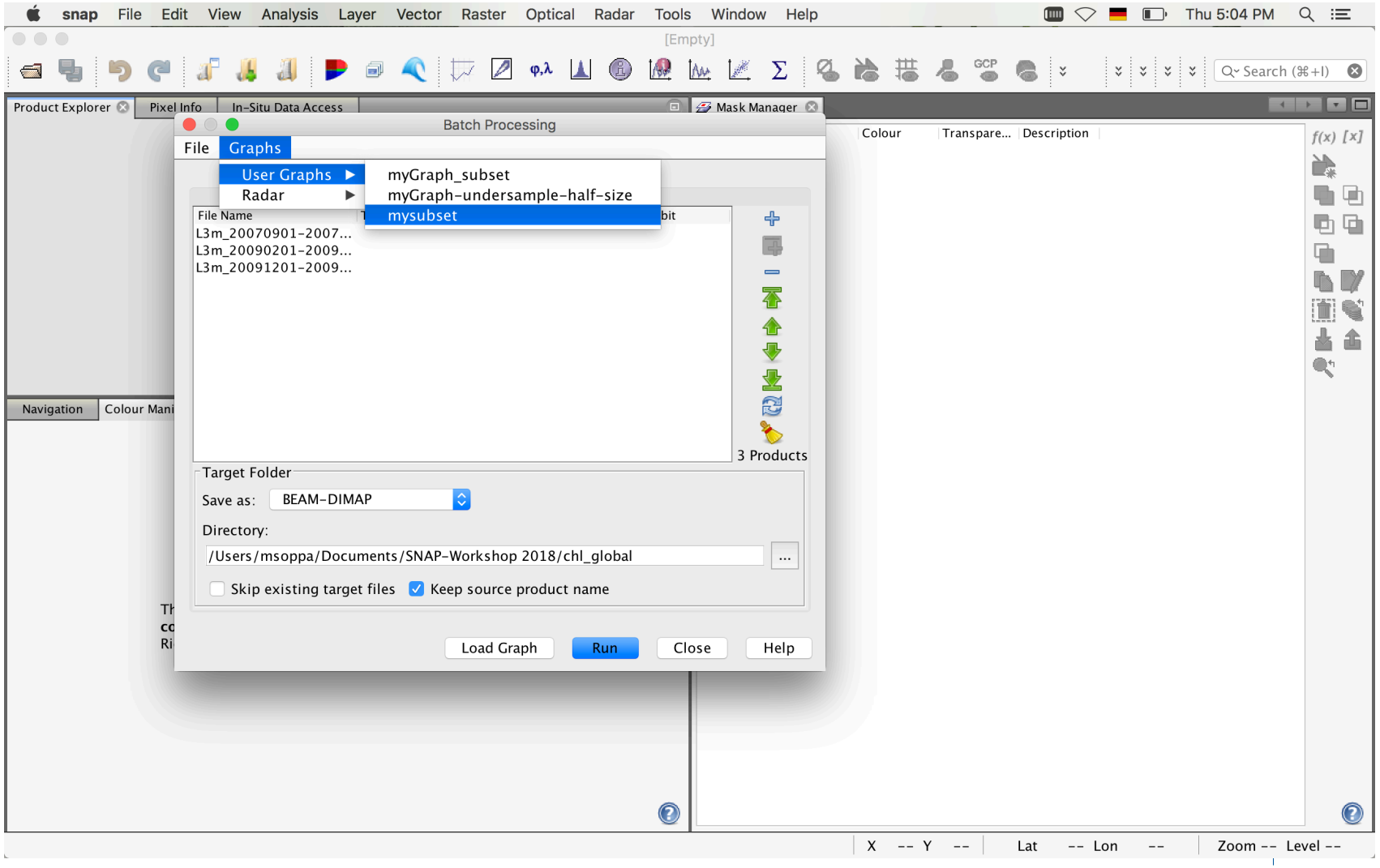
SNAP: Batch Subset (Graph builder + Batch processing)

- I/O parameters: select all images you want to process and give the output path (directory) and the output format (Save as e.g. NetCDF).



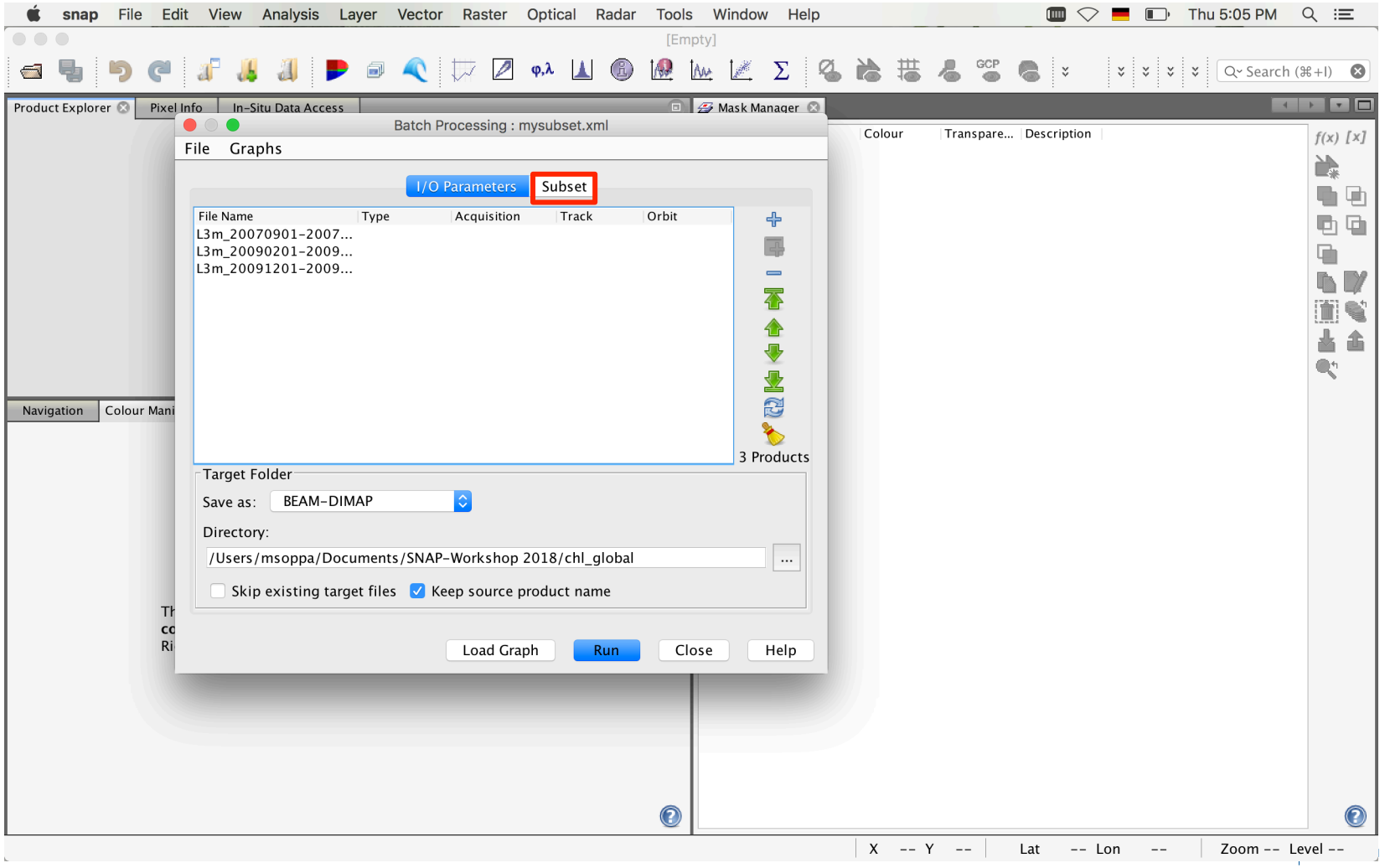
SNAP: Batch Subset (Graph builder + Batch processing)

- Load graph



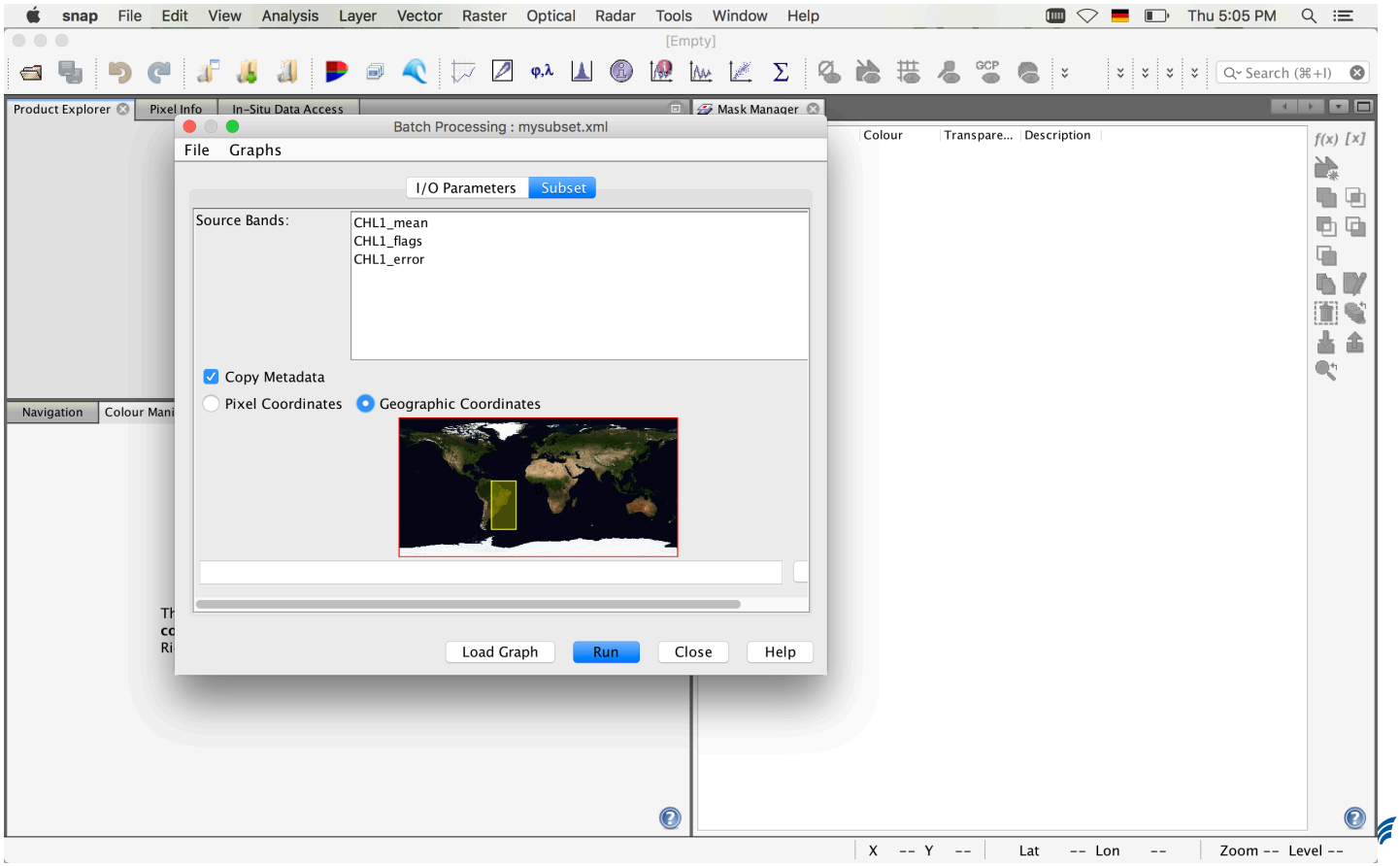
SNAP: Batch Subset (Graph builder + Batch processing)

- Open “Subset”



SNAP: Batch Subset (Graph builder + Batch processing)

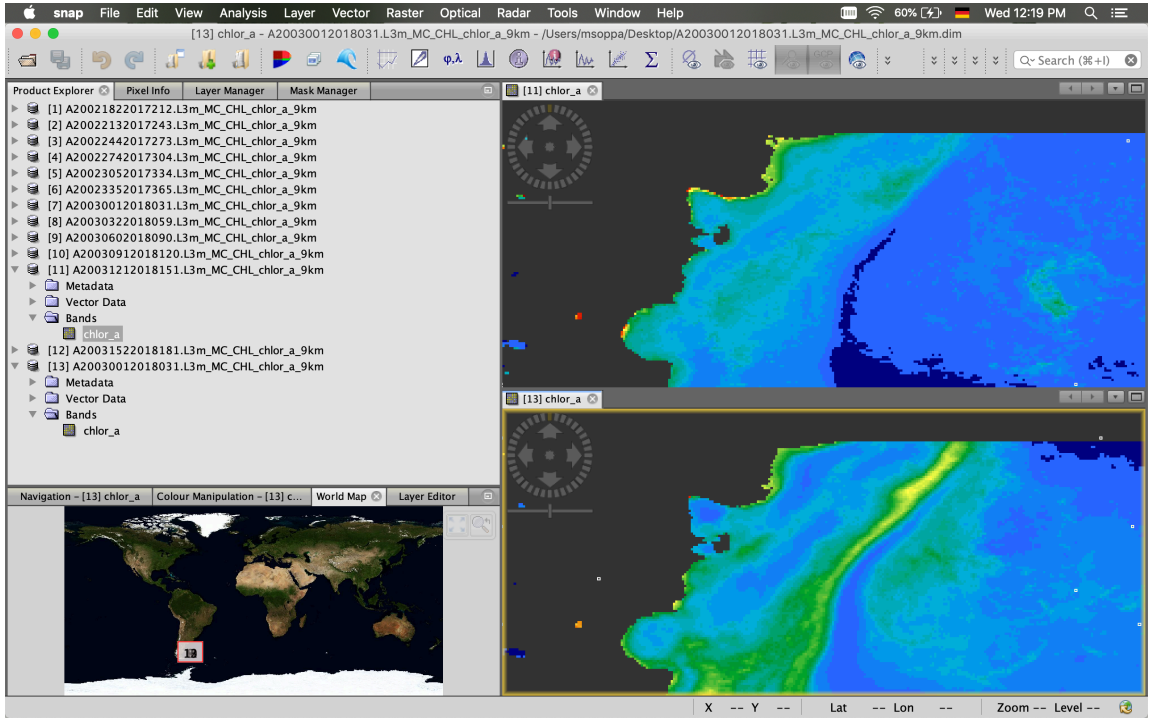
- Select the region of interest by either using the pixel coordinates or geographical coordinates and RUN!
- The new files will automatically open in SNAP



SNAP: Batch Subset (Graph builder + Batch processing)

- Subset MODIS-Aqua Chlorophyll-a climatology data for your study region using batch processing.

- Open two images, one in summer and one in winter. Apply color and observe the differences.



End of Unit 3