**Opening the Program**

* Python 3+ needs to be downloaded on your computer to run this program.
* If you are running the recon-cropper for the first time, it will automatically install the necessary modules.
  + The program will ask you if you want to manually locate the site-packages folder. If you say no, the program will automatically find it for you.

**Choosing Your Working Directory**

* The program will ask you to select your “working directory,” which the folder that you will work in.
  + If you have an existing series, this is the folder that contains the series file.
  + If you are creating a new series, select or create an empty folder.

**Operating on an Existing Series**

* If you select a working directory with a series file, the program will open the main menu, giving you the following options:
  + Option 1: Switch Reconstruct focus to the uncropped set of images.
  + Option 2: Switch Reconstruct focus to a local crop (or create a new object crop).
  + Option 3: If the series is chunked into a grid, you will be given the additional option of switching to a chunk.
* You are also given the option to import transformations (labeled as option 0).

**Creating a New Local Crop Around a Reconstruct Object**

* Select option 2 on the main menu (switch to set of images cropped around an object).
* Enter the name of the object you would like to crop around. The program will confirm that this trace exists in the series.
* If the uncropped image files are not in the working directory (i.e., your series is chunked), you will be prompted to locate all of the original image files.
  + Do NOT select cropped images to make a new crop, even if the object exists within the crop.
* Enter the number of microns to crop around the object.
  + The crop is made around the bounds of the object, not its center. For example, entering 0 for this prompt will create a crop whose edges just touch the trace.

**Switching to an Existing Crop**

* If switching to a crop made around an object, select option 2 on the main menu (switch to set of images cropped around an object).
  + Enter the name of the object you would like to focus on.
* If switching to a coordinate chunk, select option 3 on the main menu.
  + Enter the coordinates you would like to focus on (ex. “0,0”).

**Backing Up Your Files**

* Backing up is NOT done through the program.
* To back up your files, copy every file that is NOT an image file.
  + This includes:
    - Trace files (.###)
    - Series file (.ser)
    - Global transformations file (.txt)
    - Local transformations files (.txt)
  + This does NOT include:
    - Uncropped image files
    - The folders containing cropped image files

[To be added: creating a chunked series from scratch (including calibration), importing transformations]