**CountStarsInFolder.ijm**

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**Purpose:** This ImageJ macro counts the stars in multiple images of the night time sky.

**Instructions for use:**

1. Save all images into one folder (aka. a “directory”). Do not place any other files into this folder.
2. Plugins > Macros > Open. Open CountStarsInFolder.ijm.
3. Click on the .ijm window. Macros > Run macro.
4. A dialogue box will open. Select the folder in which your images are stored.
5. A second dialogue box will open. Select a different folder in which thresholded images will be placed.
6. The macro will run. Star counts will appear in the Summary window.

dirInput = getDirectory("Choose  Directory ");

dirOutput = getDirectory("Choose  Directory ");

list = getFileList(dirInput);

setBatchMode(true);

for (i=0;i<list.length;i++) {

open(dirInput+ list[i]);

run("8-bit");

setAutoThreshold("Intermodes dark");

//run("Threshold...");

//setThreshold(123, 255);

setOption("BlackBackground", false);

run("Convert to Mask");

run("Analyze Particles...", " show=Outlines exclude clear summarize");

saveAs("Jpeg", dirOutput + File.nameWithoutExtension + "\_Threshold");

close();

}