| Version Tracking | | |
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| Figure1: Science | detections | bad detections (all:bad) |Figure2: Science | bg sub | bg map | | | |
| Base | Version | Description |
| code\_test/hu\_depth\_codes\_  Runs with:  hu\_find\_depths\_1.py | 1\_1 | Makes the desired figure. Need to add a bit that ensures images all correspond e.g. fullsize map, sub, science  bkg\_test\_plotter() is good |
|  | 1\_2 | Added “make\_subset” function which creates subset from depth catalogues |
|  | 1\_3 | Early version of detection plots |
|  | 1\_4 |  |
|  | 1\_5 | Retrieves full-size image, makes Fig1 and Fig2 |
|  | 1\_6 | Makes random science and weight image cutouts for each filter and saves to data/COSMOS\_test/randomcutouts  Plots random cutouts in Figure 1  TODO: run SE for each cut out and store background maps with same file format as cutouts |
|  | 1\_7 | AIM: run SE for each cut out and store background maps with same file format as cutouts  To do this, write all random RA and Dec positions to a .lis file as part of the make\_cutout func and use this to run SE. image\_depth can then use .lis to find ra/dec. Should be faster then listing out all files in /random\_cutouts - file written  **How to match science image with bkg?**  1\_7 writes files to code\_test dir for an unknown reason and doesn’t plot dets or bad dets  Science images are in randomCutoutDir Their coords are stored in .txt  Need to check if bgsub with only ra/dec on each line (not combinations) are present |
|  | 1\_8 | More check have been added to the plotting function in an attempt to match sci, det, and subset data. Trying a different method in 1\_9 |
|  | 1\_9 | Matching coord files are found for both J,JH filters and sci, det, subset |
|  | 1\_10 | Makes plots - need to include subplot titles and bad\_ratio |
|  | 1\_11 | Plot 1 very good! |
|  | 1\_12 | Plot 2 - re-writing background plotter for random cutouts  It works full except for:  Bug: only plots second filter in list (‘JH’) after position 0,0 |
|  | 1\_13 | Fixed bug - fully working |