Hi Ned,

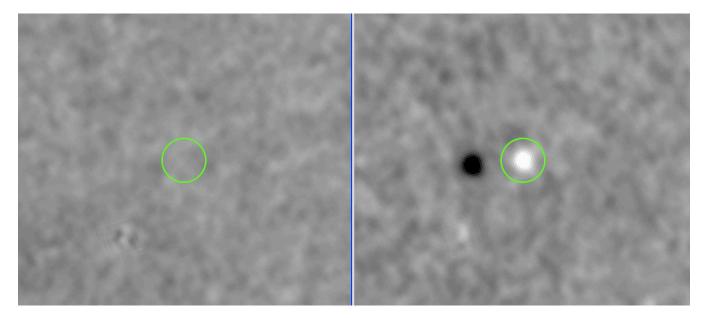
It's hard to tell what that w1 contaminant is. It appears consistent with correlated-noise fuzz. Nonetheless, I made difference images to try and remove everything static. Attached are the w1,w2 "neowiser minus cryo" differences.

Here's the difference image photometry for cryo and neowiser using a 16" radius aperture on the BD location on the positive and negative differences. The W1 cryo flux measurement was negative and hence the mag is given as a 3-sigma upper limit.

band/epoch	s/n	mag	sigma
W1 cryo:	-0.100	>1.6406e+01	null
W2 cryo:	13.009	1.3603e+01	8.3460e-02
W1 neowiser	2.082	1.6941e+01	5.2152e-01
W2 neowiser	8.363	1.3874e+01	1.2982e-01

Regards, Frank

On May 16, 2014, at 11:26 AM, Edward Wright wrote: It seems to me that there is some background thing at the WISE 2014 position. I can't tell how bright it is from Davy's Figure, but we might get a cleaner W1 flux by image subtraction.



----- Original Message -----From: "Frank Masci" <<u>fmasci@ipac.caltech.edu</u>> To: "Davy Kirkpatrick" <<u>davy@ipac.caltech.edu</u>>, "Edward Wright" <<u>wright@astro.ucla.edu</u>> Cc: "Roc Cutri" <<u>roc@ipac.caltech.edu</u>>, "Amy Mainzer (3266)" <<u>Amy.Mainzer@jpl.nasa.gov</u>> Sent: Friday, May 16, 2014 11:07:11 AM Subject: Re: WU855 paper v U.1

Ned, Davy -

Here are the adjustments to the neowiser photometry in Table 2:

w1mpro(new) = w1mpro(old) + 0.005 mag (close to zero, see plots below). w2mpro(new) = w2mpro(old) + 0.015 mag.

Also, from the w?rchi2 distributions around the magnitudes of interest, I suggest multiplying the W2 uncertainties in Table 2 by \sim sqrt(0.8) \sim 0.89. W1 sigmas are fine.

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With the above changes, the new W1-W2 color would be 3.803 +/- 0.329 mag.
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Supporting plots are here: http://wise2.ipac.caltech.edu/proj/fmasci/neowiser W0855 coadphot/vs allwise/

Regards, Frank