

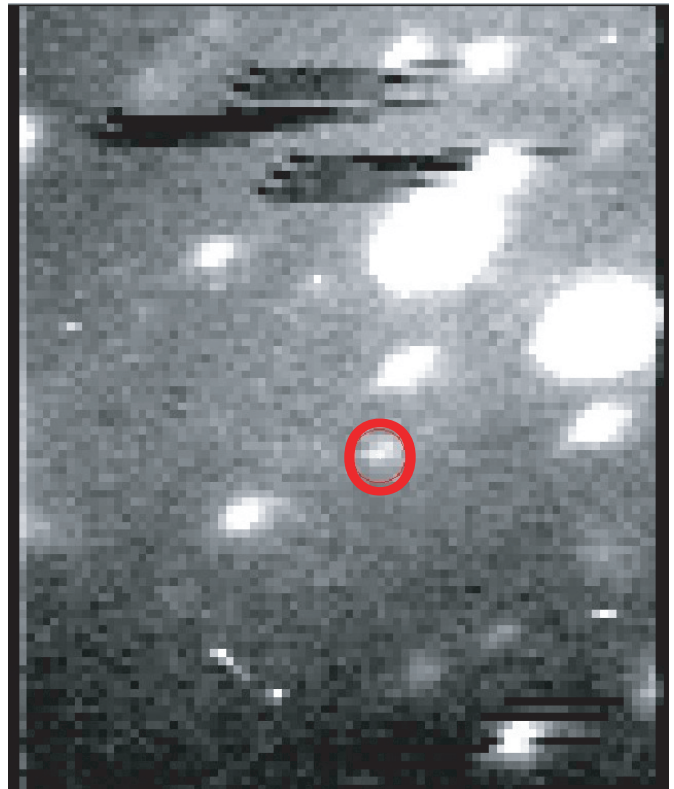
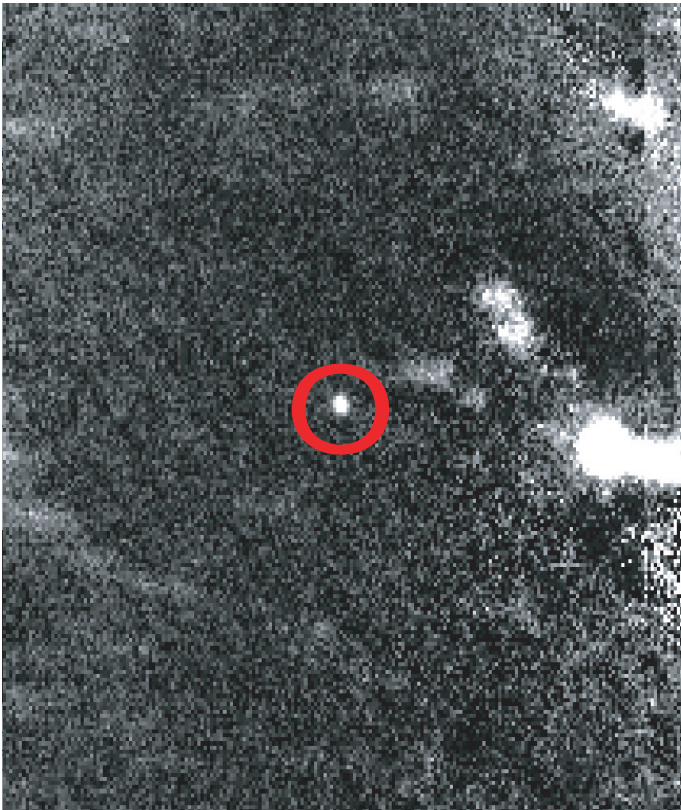
Investigating a New Paradigm for Comet Activity

2012-1-RSA_OTH-008

Awarded P1: 10000 s dark, 10000 s gray, P3: 10000 s dark, 10000 s gray

Observed P1: 2986s dark, 3754 gray (2 blocks requested to be rejected, no reply)

Summary: data quality suffered from bright and variable background, non-sidereal tracking worked to first order (detailed analyses of tracking to follow)



Left: Coadded images (8 x 120s) of comet P230 ($R=23.67$). Sky background is weird, but we obtained an acceptable signal with a total of ~ 85000 ADU on the target.

Right: Coadded images (17 x 120s) of comet P232 Hill ($R=23.52$) on 12 June 2012. The sky background is very high and has varied structure, and the image quality is poor. [The objects were elongated from the start and there is increasingly bad IQ with each of the five dithers, as noted in the night log.] The result is significantly lower total SNR than expected: the expectation was $SNR \sim 15$ per frame, and the total of these frames is $SNR=10$.