Asteroid Trails in [illegible] Images
Abstract submitted to the [illegible] meeting

Close examination of 3750 observations (1500+ frames) taken for the GTO Parallel Survey, the Medium Deep Survey and selected long exposures from the GO PC programs that have become public has revealed [illegible] asteroid trails. Two additional asteroids trails were supplied to the authors by the Space Telescope Science Institute with the appropriate Principal Investigator's permission. These and three others were early detections that have been reported to the IAU's Minor Planet Center for follow-up observations. Most of these asteroids are discovered because they are too dim to show up on photographic sky survey plates.

Asteroid trails are easily distinguished from cosmic ray tracks by their point spread function, curvature, and the continuity of their trails between observations. The asteroid trails exhibit a [illegible] streaking due to the orbital motion of the HST observatory that is clearly resolved in these images. This parallax when combined with that due to the Earth's and the Hubble Space Telescope's motion, allows the distance to each object to be estimated from each single set of observations in combination with the observed magnitudes (16 $\leq$ m $\leq$ 24) and colors; this allows crude size estimates for the objects. The asteroids appear to be small, main belt objects 1 - 25 km in diameter.