

An **Preliminary Look at Hungarias and Phocaeas** Discovered by NEAT  
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With over **10,000** asteroid detections, the **Near-Earth Asteroid Tracking (NEAT)** project is beginning to develop a sufficient **quantity of** data such **that** asteroid **families** and orbital distributions **can** be **examined**. **One** area **of** particular interest **is** the **Hungaria** and **Phocaea** region **of** phase space. Their **numbers** have **increased dramatically** over **the past decade** primarily due to **systematic** asteroid search programs.

**Early** review **of** the orbital elements, **determined** by the **Minor Planet Center (MPC)**, show **a substantial number of Hungarias and Phocaeas** (12 and 13, respectively) discovered by NEAT. **Of** particular interest is the 1:1 **ratio of Phocaeas to Hungarias** within **this** data. This is consistent with the **photographic PCAS** data reported by **Helin** and Roman (1989). **However**, as **of December 1996**, the **Bigelow Sky Survey (BSS)** has reported a 2:1 **discovery ratio** during their **dedicated search for high** inclination objects. **Although**, the **BSS** is **concentrated on higher ecliptic latitudes** perhaps a **more** suitable comparison **can** be with the **Palomar-Leiden (P-L)** Survey which **concentrated their** observations on the ecliptic **as** NEAT does. It is somewhat **curious** that the **P-L Survey** found **9 Hungarias** and **no Phocaeas**. Details **of these results, along** with the **size** and **magnitude distributions**, will be dismissed.

**Related abstract:**

**Helin, E., et al., 1997 DPS**