JaH 479 - 553 grams
Enriched Basaltic Shergottite

**Introduction**
Jiddat al Harasis 479 was found in 2008 in Oman (Weisberg et al. 2010). It was an oriented stone and has a partial fusion crust (figure 1).

**Petrography**
JaH is a basaltic shergottite similar to Zagami. It has a coarse-grained (1 - 2 mm) sub-ophitic texture (Lorenz et al. 2010). Both pigeonite (up to 10 mm) and augite (1 - 3 mm) grains are present. Pigeonite is twinned and shows undulatory extinction. Plagioclase (0.1 – 1.5 mm) is shocked to maskelynite. Minor phases include olivine, ilmenite, silica, K-spar, phosphate, zircon, pyrrhotite and troilite. Rare, thin, shock-melt glass veins criss-cross the rock.

Lorenz et al. (2010) give mineral compositions. This data seems very similar to that of Zagami.

**Chemistry**
Lorenz et al. (2010) reported enough REE data to discern that JaH479 is slightly depleted in LREE – stay tuned.

**Cosmogenic isotopes and exposure ages**
Cartwright et al. (2010) reported the rare gas content and isotopic ratios. They found that JaH 476 had a 2 m.y. exposure to cosmic rays.

**Other Studies**
Oxygen isotopes were reported by Lorenz et al. (2010). Delta $^{17}$O is 0.315 per mil.

**Processing**
This sample is being studied at the Vernadsky Institute.

**References for JaH479**
Figure 2: Map of Oman, where meteorites are relatively easy to spot on limestone pavement (from Al’Kathiri et al. 2004). Dhofar and Sayh al Uhaymir regions also located.