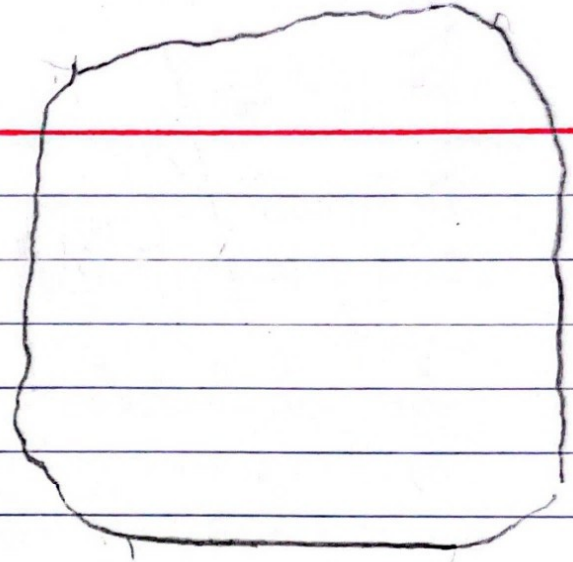
Angsmakssalik NW 2111

14 Jan 2012 - JTW



Rusty slab ~3 mm thick; total mass 62.0 g
Coarest octahedrite; kam. bandwidth ~5 mm
Much corrosion at kam. grain boundaries but
interiors seem to be solid metal.
Metal seems to have a frosty appearance,
probably the result of a deep etch. We did not
get prepare a new surface.
I was not able to find any inclusions.

IN 1360

Amyujskij

Small sample from KMAN, Moscow 

. Seems to be a hexahedrite; ∫ abundant Neumann lines, no taenite. Curious "whitish" mottled area in lower left - may be some sort of reheating effect. Under high power I can see ∫ many tiny (10 μm x 100 μm) rhabdites in the unreheated area, but extensive resorption and even incipient melting? (domains of clear soled 60 x 100 μm in size) in the mottled areas.

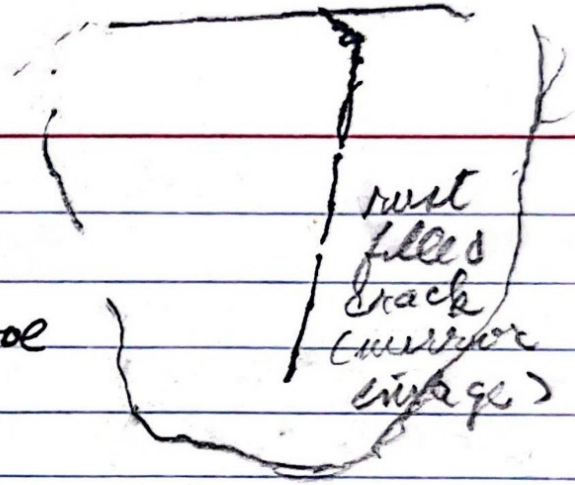
JTW 3.9.90

Antofagasta (Antofagasta, Chile)

13. Aug. 71. Two pieces from NMNH 1207. Both have had olivine removed. Pallasite seems to be relatively rich in metal. Olivine grains were rounded, and typical dimensions were apparently about 0.5 cm diameter. The one flat surface of the larger piece we received includes one area of clear metal about 1.1 cm across (~1.2 cm^2), and at least 2-3 mm thick in this section. There is a little fresh rust on the polished + etched surface, but on the whole the sample is very fresh. Minor amount of (schreib.) inclusions — apparently most were removed with olivine. Kam about 1.2 mm, unoriented. Swathing kam 1-2 mm across, unoriented. Dark plessite with no v banding, but one big (1.2 mm) band.

"meteorid"

Apizaco Jan 2015



End piece unnies ~ 5 g, piece removed from straight edge on "north". Mass today 126.5

Section not completely flat (we didn't remove all the grooves from the saw.

Bandwidth is 1,05 ± 0,15 mm

Numerous dark plessite fields, (0,3-1) × (1 × 2) mm

No FeS recognized. Some small bright inclusions (upto 3 × 0,6 mm) may be schreibersite (Alan agrees that they are).

There is a crack (shown in mirror image on the sketch), ~0,2 mm wide, filled with iron oxide.

The meteorite rests tragically in the cabinet.

Apoala - 2nd card.

6 Jun. 66. sample received from CNHM, Cat No. Me 1008, Wt 18.0 g. Sample is flat slab, ~ 1.5cm × 3cm × .15cm, with one 0.5 × 3 cm surface in very bad condition from weathering. Weathering does not appear to have penetrated inward more than .1 mm, however. Several large schreib inclusions, which are extended to form cracks. Evidence of oxidation along these cracks + inclusions, inward ~ 0.1 mm. Widmanstätten pattern a bit indistinct, probably as a result of light heat treatment (or a manifestation of weathering? - I doubt it). Kamacite bands are irregular, and vary in width from 0.3 - 0.7 mm. Resembles group IIIb metal except for slightly washed out Widmanstätten pattern.

29 Jul 1966 Perry (1944) plate 47, fig 1, p. 167 gives a very nice X1.2 photo of Apoala, showing a troilite inclusion and two small Reichenbach lamellae