




Babb's Mill (Troost's Iron) (Tennessee, USA).

70 Sep 66 Flat slab, 1 face $2 \times 2.5 \text{ cm}^2$ pol & etched 60 sec in nitric. No structure, entire mass is a very fine, dark plumbite, which has an indistinct spottiness on a scale of perhaps .02 mm. No inclusions to be seen. No weathering out to crust. Very similar to S. Byron.

Barranca Blanca (Atacama, Chile)

6 Sep 66. 13g sample from Brit. Mus.  3 cm², and adjacent side 2.5 cm². Etched 60 sec in nital. There is no Wid. pattern visible, but etch has revealed kam + taen very nicely. The kam occurs as large crystals, typical dimensions of the order of 1 cm. The taenite (or very reflective plausite!) occurs as irregular regions  of typical dimensions 0.5 mm, thus not just taenite borders. The "borderless" of the kam crystals are generally cracks stretching from one taen. region to another. These are invariably slightly oxidized and I can't determine whether they might also have schreib. in them. In many cases the taenite regions are not connected at all. There are many inclusions, most of which are rounded and typically 1-2 mm and occur imbedded in kam. Some ^{irreg.} seem like schreib inclusions are next to taenite. The rounded inclusions are scribersite, troilite, and one is  bronze (FeS?) and has some colorless trans. crystals in the chromite. black (chromite?). Oxidation is very light along cracks and near 2 crest sides. Fletcher, Min Mag 8 263 sees chromite + a silicate.

Bartlett, Texas

22. IV. 66, USNM slab, ~ 12 x 15 cm

671 gm, clear Wid pattern, numerous elongated schreibersite inclusions, as veins ~ 1 mm x 5 cm typical size. very little oxidation, kam bands irregular 0.5-2.0 mm across, plessite has sometimes transformed by forming kam lamellae. III b?
new Hg lists iron octa 8.88% Ni, Gonyer, Amer. Min 25, 497 (194

Dan Kong Du (Thailand)



4 g sample received from Prayong Angsurathane.
Heat altered zone extends inward about 5 mm in upper right of sketch, but is not visible next to fusion crust in lower right. Kamaile crossed by fine ^{curves} lines on right half of sample, with tiny schubertite widely separates along these lines. But on left side are kamaile crystals that don't show these ^{curves} lines. Except in heat altered zone, ~~small~~ kamaile shows a high conc. of Neumann lines, in several sets showing different orientations. Neumann lines are not bent (no evidence of cold working).

Four kamailes have islands of schubertite, typically $\sim 0.3 \times 0.7$ mm (but variable). The kamaile bands outcropping in this section (~ 1.6 cm²) are short and do not show parallel edges. The bandwidth is thus difficult to estimate - it may be $2 \times$ (factor 2) mm.

Plessite + taenite accounts for $\sim 8-10\%$ of the section. One region near the center has an area of 3 mm², $\sim 20\%$ of this is clear.

No inclusions other than schubertite recognized.

Tacubikito (Sinaloa, Mexico)

17.II.7. ASU No. 17a. ~~Tab~~ Slob weighting ~ 200 g. face ~ 5 x 6 cm.
Etched. Closely spaced fine bands. It appears that initial kam
bands 0.2 mm typical width have split up into ~~into~~ groups of 5
parallel (with irregular edges) of typical width 0.05 mm. Thus
this is Off (Offf?). There are no inclusions. Plessite is granular
and also of typical grain size ~ 0.05 mm. Unoxidized, strange —
have the fine bands + granular plessite resulted from reheating?

27.II.7. Sample from CNHM, 21 g. Polished on 3 sides, ~ 5 cm², and
etched 45 sec. nitric. Same as above. Sample has some cracks.