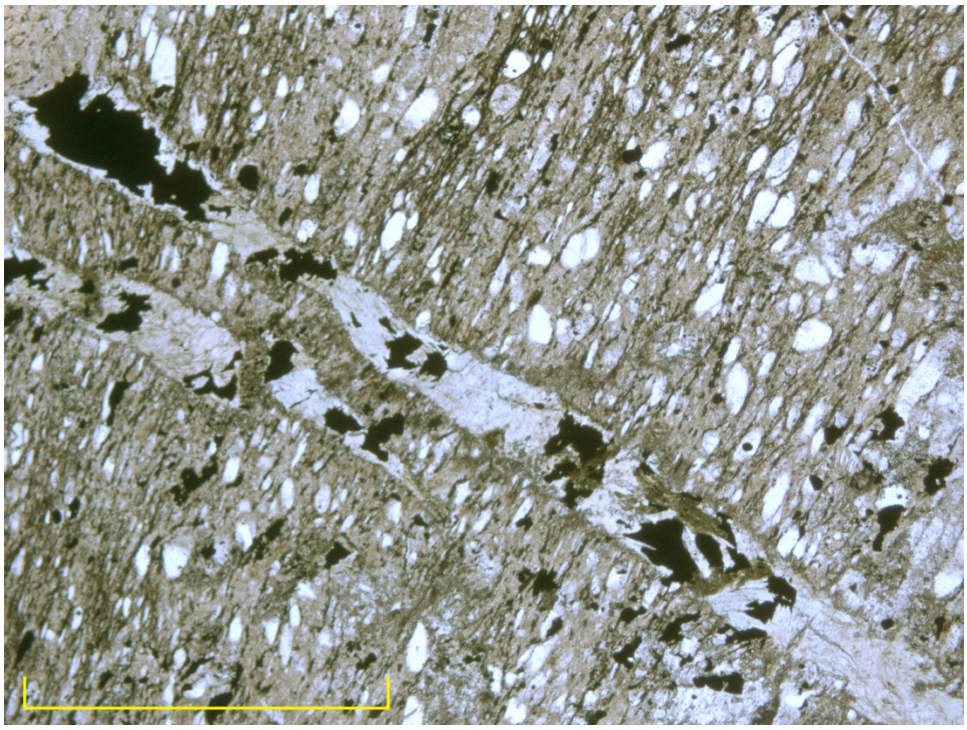
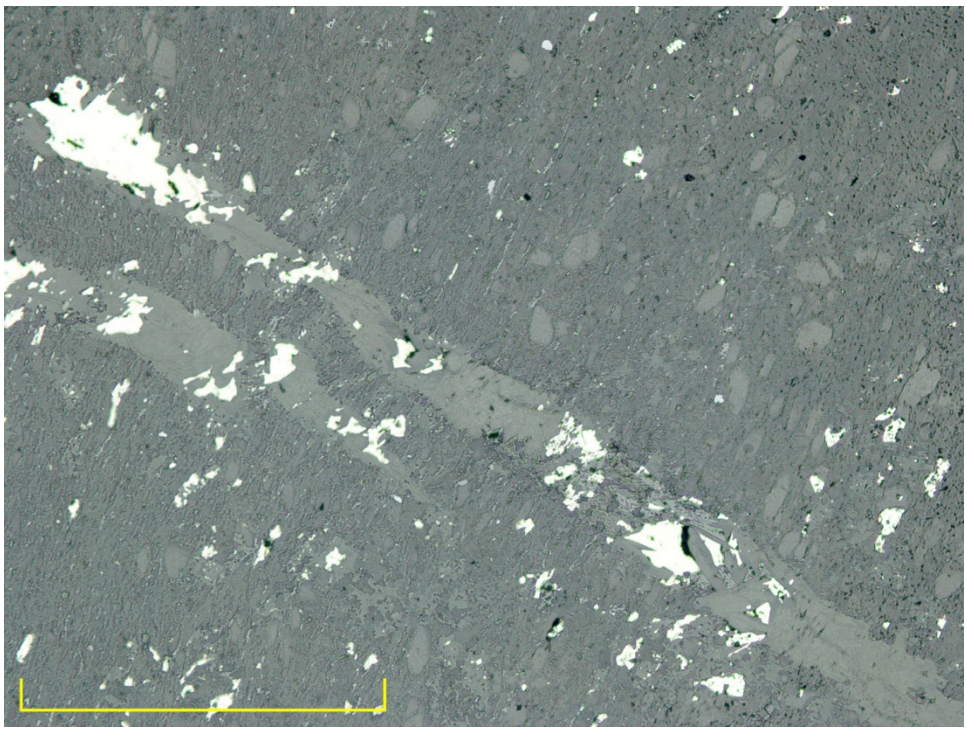
FA3 PTS

This rock is likely a devitrified densely-welded ignimbrite. It is obviously foliated and has subround grains of quartz and feldspars to 0.2mm long, with some finer grained opaques in an aphanitic groundmass. Planar extension fractures are common perpendicular to the foliation. These are filled with chlorite and sulphide. A few irregular-shaped patches of pyrrhotite, to 2mm thick, follow the foliation. Some 1-2mm wide, foliation-parallel layers have an anastomosing fabric; these may be C-S structures due to shearing. Besides the obvious pyrrhotite bearing layer, some euhedral pyrite cubes, 0.25mm across are contained within the finer-grained groundmass. No pressure shadows are developed around these. Pyrrhotite also pseudomorphs pyrite in some individual cubes. One grain of chalcopyrite was noted.

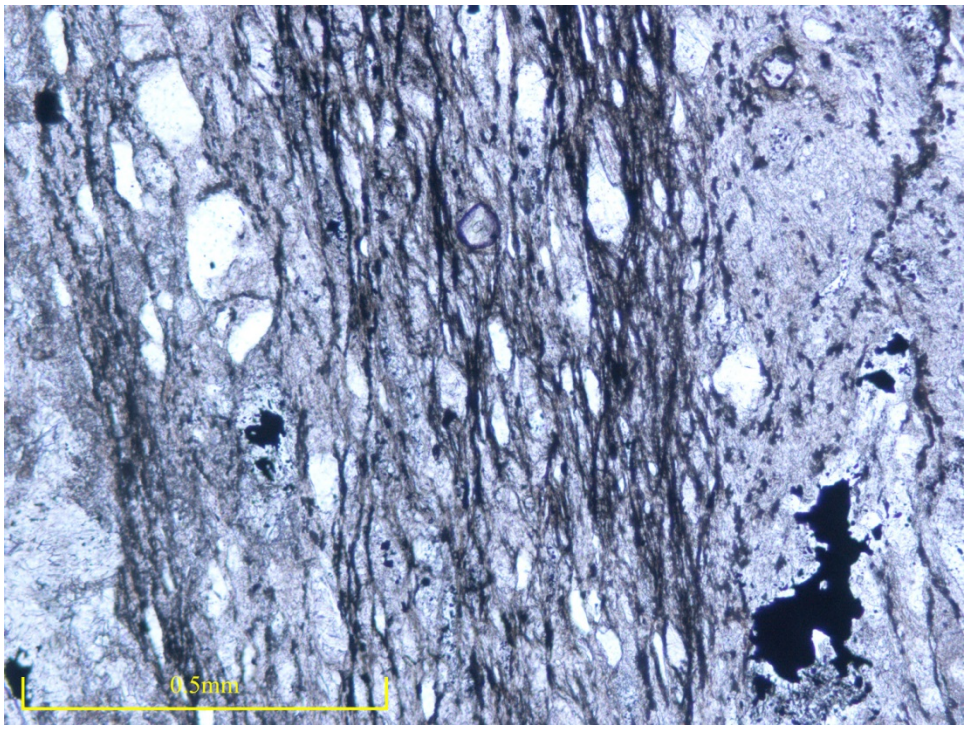
FA3-5,0pp2	shows the foliated fabric of the rock and chlorite-pyrite filled extension veins
FA3-5,0ppin	is in reflected p.p. light, highlighting the sulphide
FA3-5,0ppin2	shows another vein where the filling is likely white mica with pyrite
FA3-10pp	shows a layer with anastomosing fabric
FA3-5,0xpin	shows the bireflectance of the pyrrhotite (polarizers at 85°)
FA3-5,0ppin	is the same field in reflected p.p. light
FA3-20xpin	shows a cube of pyrrhotite pseudomorphing pyrite (bireflectance, polarizers at 85°)



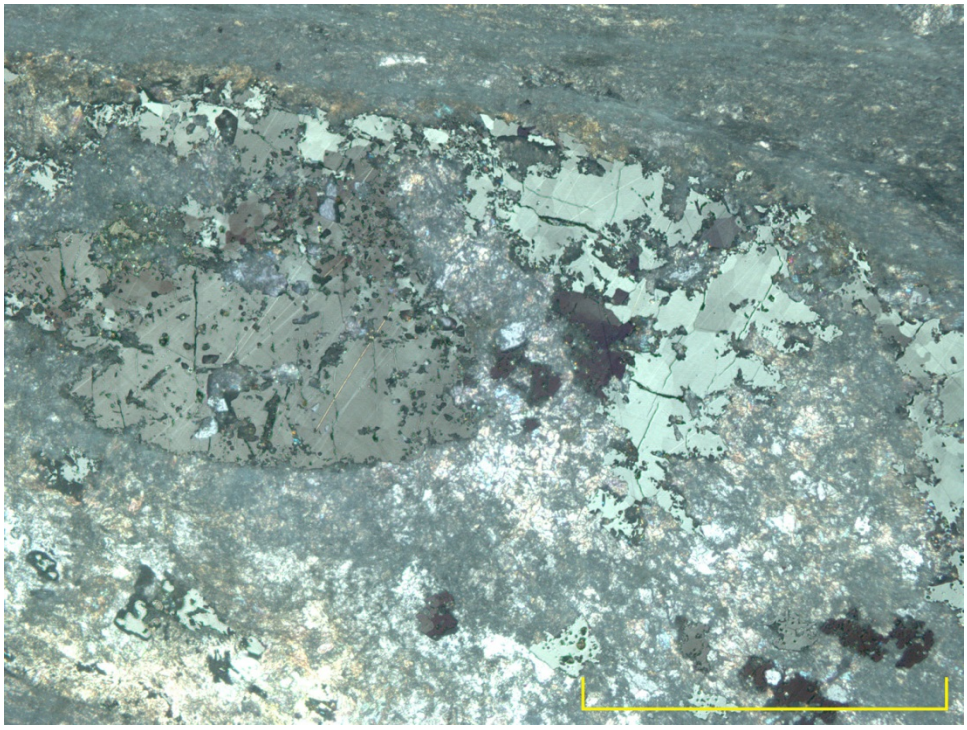
FA3-5,0pp2



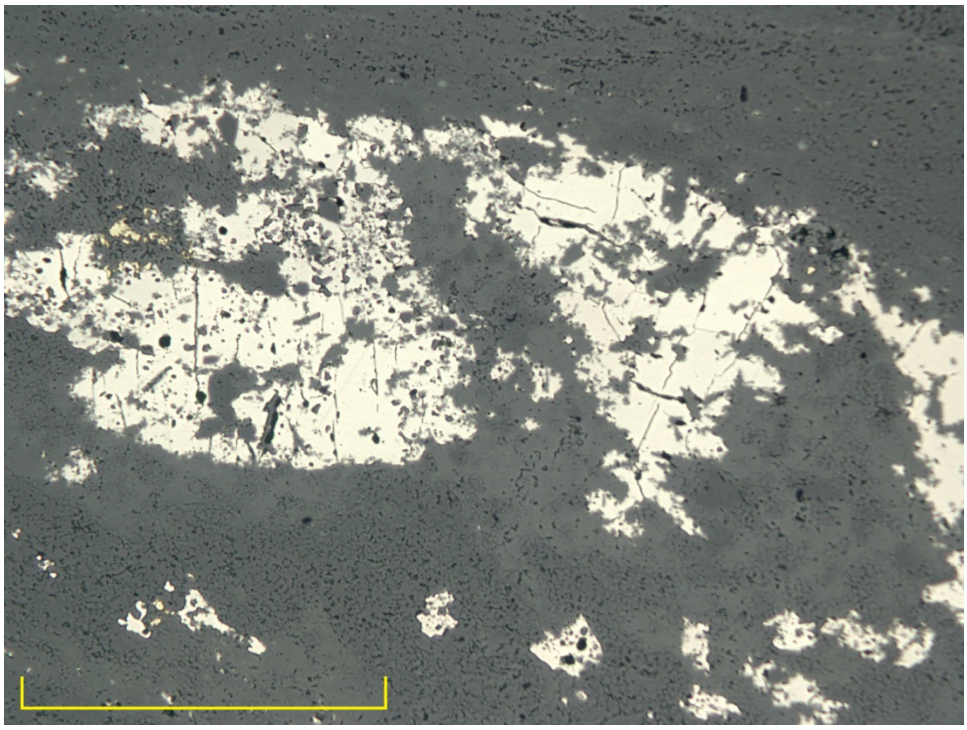
FA3-5,0ppin



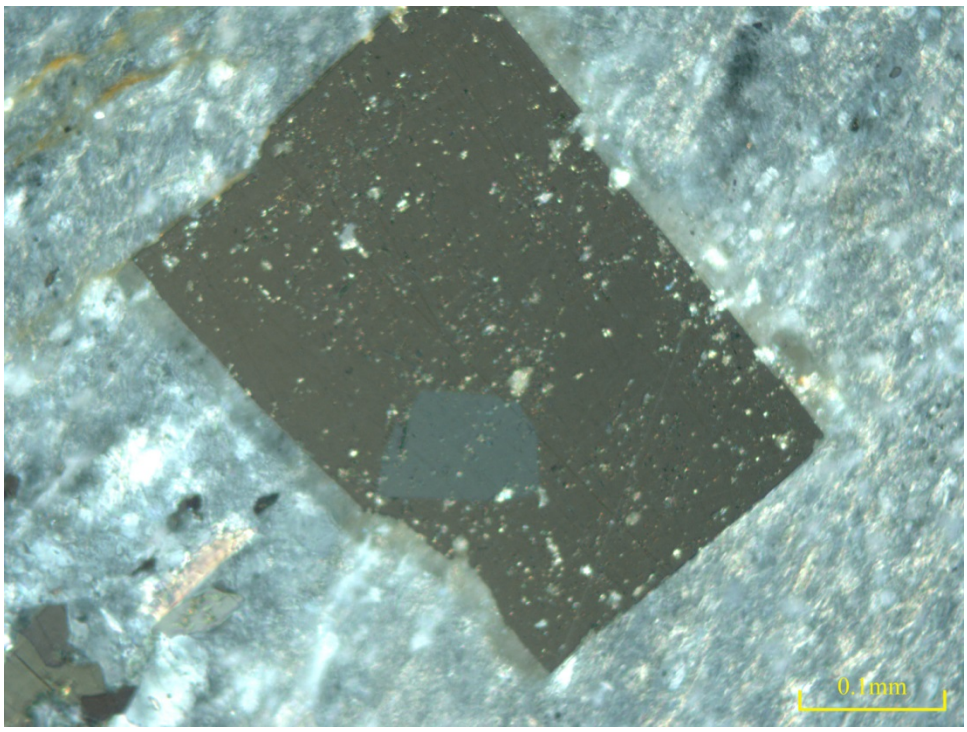
FA3-10pp



FA3-5,0xpin



FA3-5,0ppin



FA3-20xpin