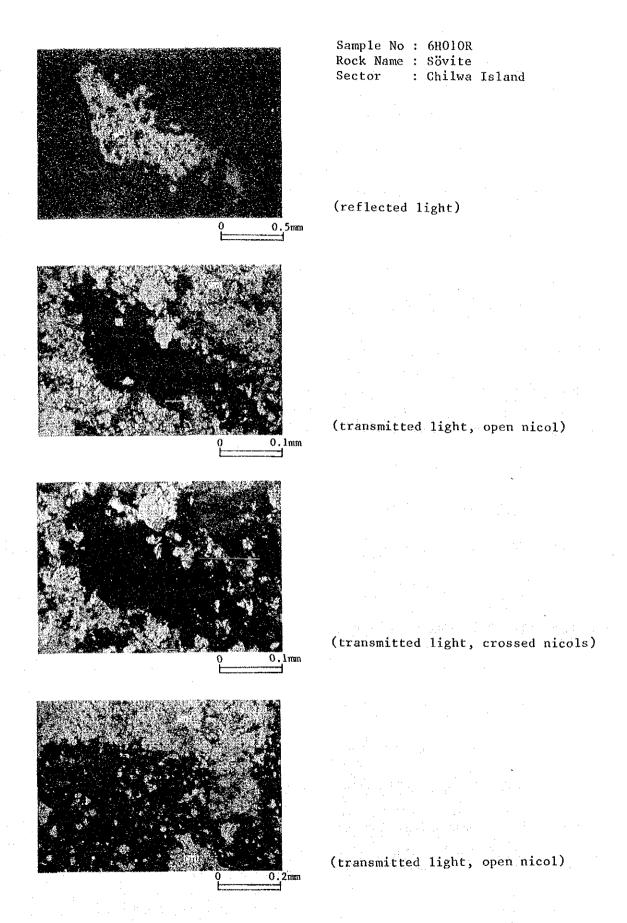
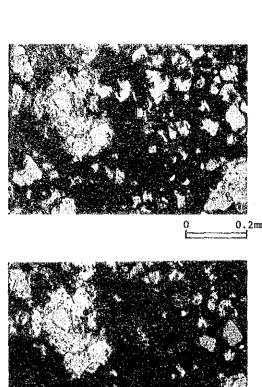
Appendix 8 Microphotographs

(Polished Thin Section and Polished Section)

[Abbrebiations] --- aegirine Aeg - - - - apatite Aр ---- biotite Βi Br - - - - brucite Cal - - - - calcite Carb - - - - carbonate mineral Fe - - - Fe-oxide(hydro-oxide) Goe - - - - goethite Hem --- hematite ----ilmenite Κf - - - - alkali feldspar Mag --- magnetite Mz --- monazite - - - opaque minerals Opq - - - - pyrite Рy --- quatrz Qz - - - rutile Rŧ - - - - sphalerite Sp. --- strontianite St - - - - zircon Zr. [Legend] --- area of characteristic X-ray images by EPMA - point of qualitative and quantitative analysis by EPMA

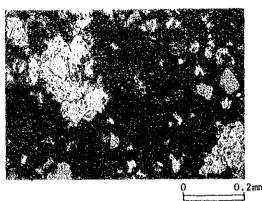




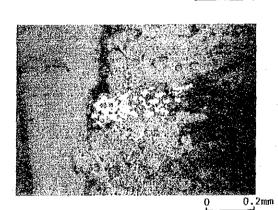
Sample No : 6H010R Rock Name : Sövite

Sector : Chilwa Island

(transmitted light, open nicol)



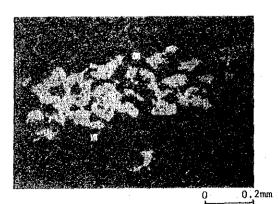
(transmitted light, crossed nicols)

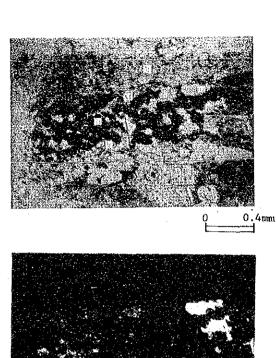


Sample No : 6M004R

Rock Name : Apatite feldspathic rock

Sector : Tundulu



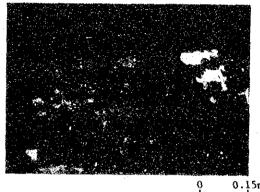


Sample No : 6M004R

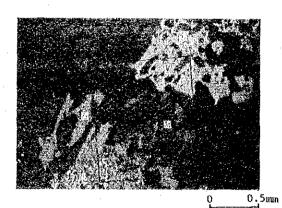
Rock Name : Apatite feldspathic rock

Sector : Tundulu

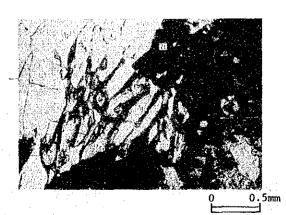
(transmitted light, plain polarized light)



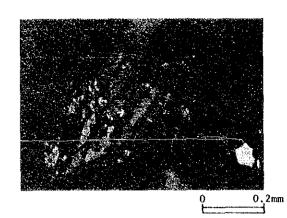
(transmitted light, crossed polarized light)



(reflected light)



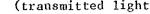
(transmitted light open nicol)



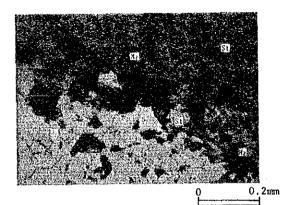
Sample No: 6M004R

Rock Name : Apatite feldspathic rock

Sector : Tundulu

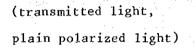


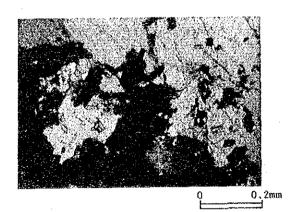
(transmitted light, crossed nicols)



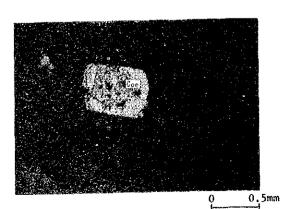
Sample No : 6M044R Rock Name : Monzonite bearing Carbonatite

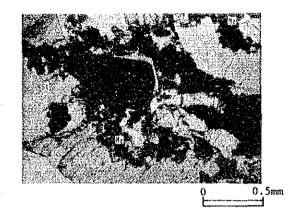
Sector : Kangankunde





(transmitted light, crossed polarized light)



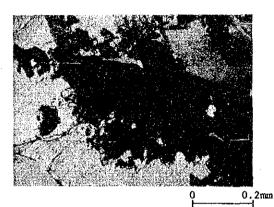


Sample No: 6M044R

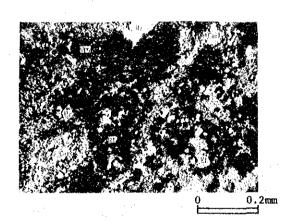
Rock Name: Monzonite bearing Carbonatite

Sector : Tundulu

(transmitted light, open nicol)



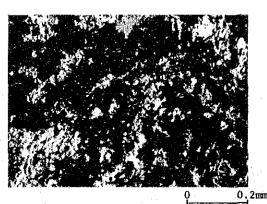
(transmitted light, crossed nicols)



Sample No : 6M045R

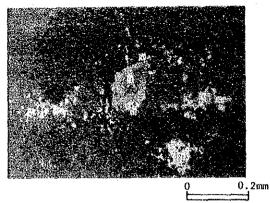
Rock Name: Carbonatized feldspathic rock

Sector : Kangankunde



(transmitted light, plain polarized light)

(transmitted light, crossed polarized light)



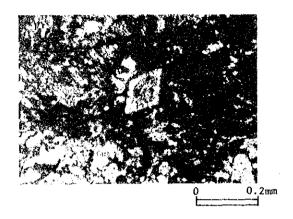
Sample No: 6M045R

Rock Name : Carbonitized feldspathic rock

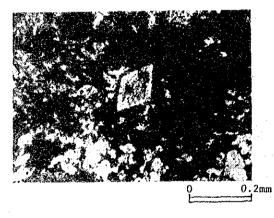
Sector : Kangankunde



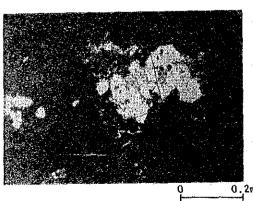
(reflected light)

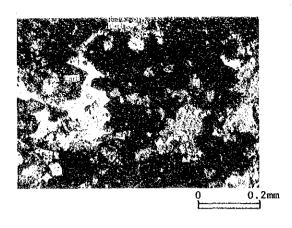


(transmitted light, open nicol)



(transmitted light, crossed nicols)

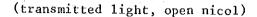


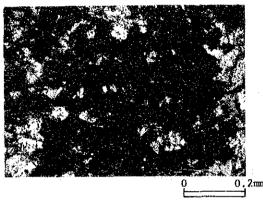


Sample No : 6M045R

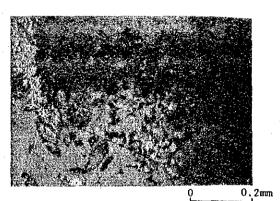
Rock Name : Carbonitized feldspathic rock

Sector : Kangankunde





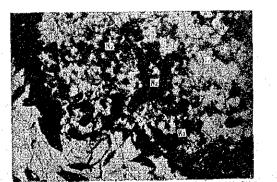
(transmitted light, crossed nicols)



Sample No : 6M053R

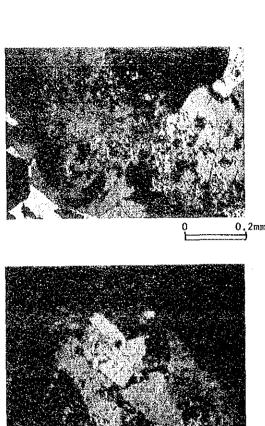
Rock Name : Quartz druse rock

Sector : Kangankunde



(reflected light)

(transmitted light, open nicol)

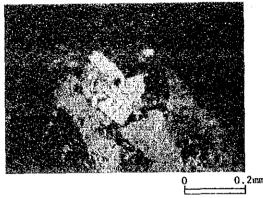


Sample No: 6M053R

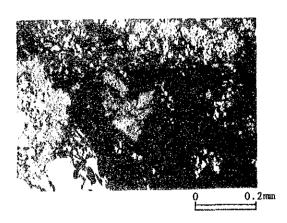
Rock Name : Quartz druse rock

Sector : Kangankunde

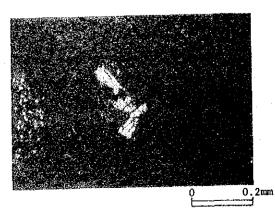
(transmitted light, crossed nicols)



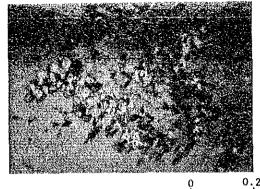
(reflected light)



(transmitted light, open nicol)



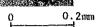
(transmitted light, crossed nicols)



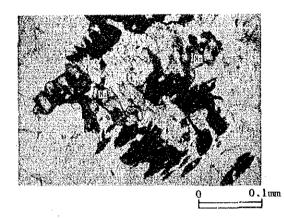
Sample No: 6M053R

Rock Name : Quartz druse rock

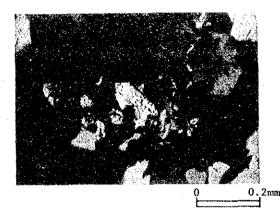
Sector : Kangankunde



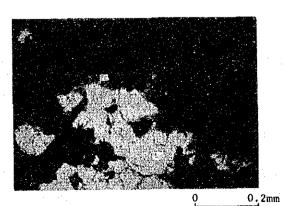
(reflected light)



(transmitted light, open nicol)



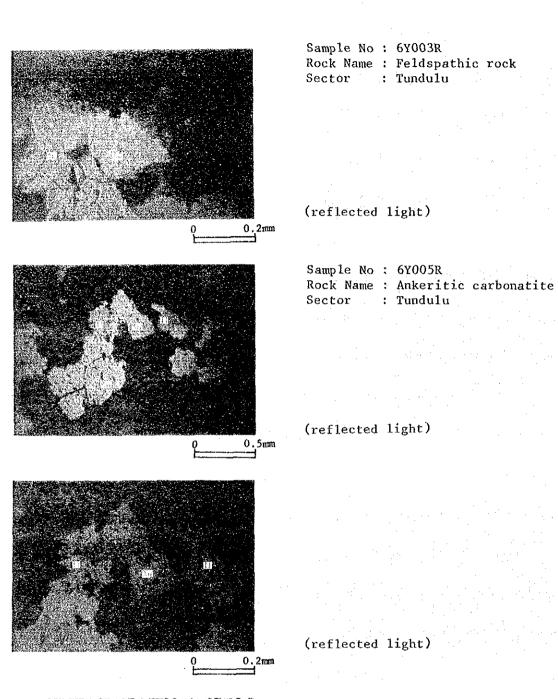
(transmitted light, crossed nicols)



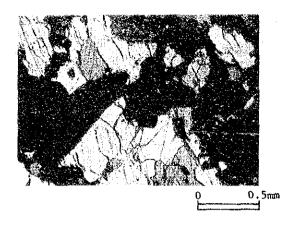
Sample No : 6Y003R

Rock Name : Feldspathic rock

Sector : Tundulu



0 0.2mm (transmitted light, open nicol)

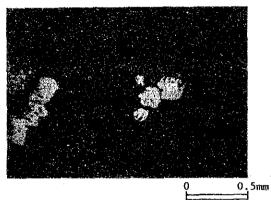


Sample No : 6Y005R

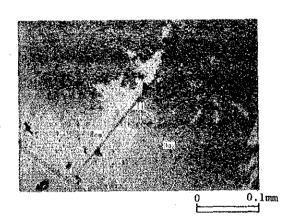
Rock Name : Ankeritic carbonatite

Sector : Tundulu

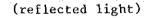
(transmitted light, crossed nicols)

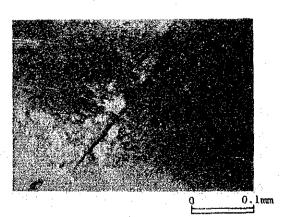


(reflected light)

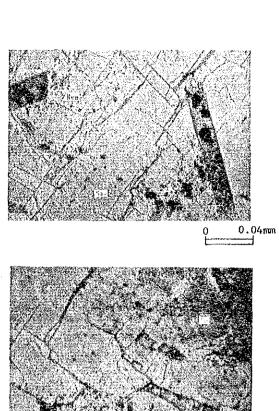


Sample No : 6Y007R Rock Name : Magnetite Ore Sector : Tundulu





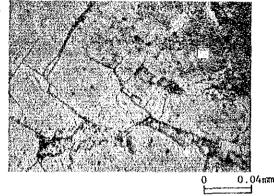
(reflected light, crossed nicols)



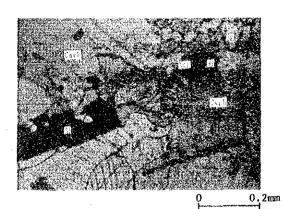
Sample No : 6Y007R

Rock Name : Magnetite Ore Sector : Tundulu

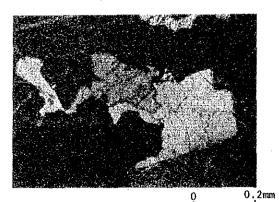
(reflected light)



(reflected light)

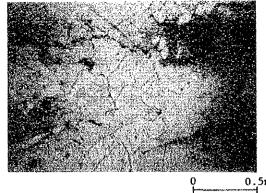


Sample No: 6Y034R Rock Name : Sövite Sector : Tundulu



(transmitted light, open nicol)

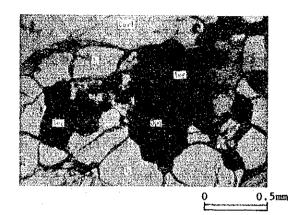
(transmitted light, crossed nicols)



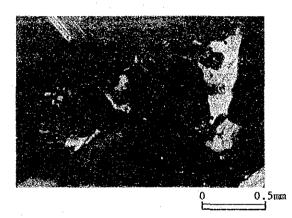
Sample No : 6Y034R Rock Name : Sövite Sector : Tundulu

(Refle

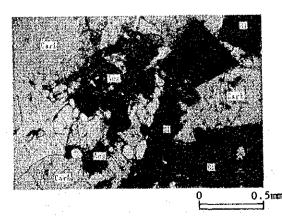
(Reflected light)



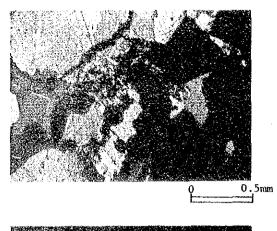
(transmitted light, plain polarized light)



(transmitted light, crossed polarized light)

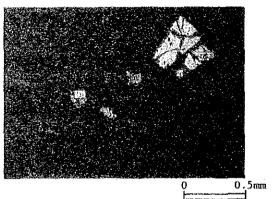


(transmitted light, open nicol)

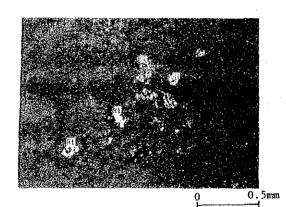


Sample No : 6Y034R Rock Name : Sövite Sector : Tundulu

(transmitted light, crossed nicols)



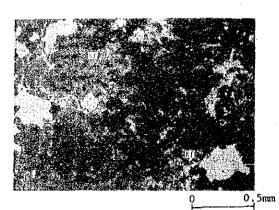
(reflected light)



Sample No: 6Y037R

Rock Name : Ankeritic-carbonatite

Sector : Chilwa Island



(reflected light)

(transmitted light, open nicol)

