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Appendix 3 Microscopic observations and microphotographs

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	Linopyroxene							н	
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1	243611	7 7 7		10	7 7	7	223	H 2004	ㅋ ㅋ
	Rock Name	 	Nepheline syenite A.S.C. Phonolite A.S.C. Ankeritic sovite	Comptonite Lamprophyre Sideritic carbonatite Sideritic carbonatite Sideritic carbonatite	Ankeritic sovite Ankeritic sovite A.S.C. Sovite C.A.C.	Syenite Sovite Sovite Carbonatized aggl. Sovite	Iron oxide ore Altered neph. syenite Apetite rock A.S.C. Apatite rock	Blo. rich carbonatite Altered trachte Fenttized syenite Fenttized gneiss Sovite	Sovite Syenite Syenite Alkali syenite Sovite
	Locality	49.1m 35.6m 17.9m 30.2m 34.8m	46.9m 2.8m 32.7m 28.4m 33.8m	11.0m 19.3m 35.4m 26.4m 39.0m	48.2m 17.1m 33.5m 12.5m 45.4m	50.0m 44.9m 47.4m 18.2m 47.3m	14.0m 29.0m 3.2m 25.0m 28.9m	47.6ш	
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	Sector	Chilwe Island			ř z z s z j	Songwe	Tundulu 	Chilwa Island	
	No. Sample No.		C 1901 C 2007 C 2106 C 2208			c 3210 c 3210 s 1404 s 1510	S 1604 S 1907 T 2501 T 2607	_	87058 87061 87127 87145 87147
		44644	·p						

A-18

A.S.C.: Altered sideritic carbonatite 1: Rare, 2: Poor, C.A.C.: Contamination of alkali rock & carbonatite Agglomerate

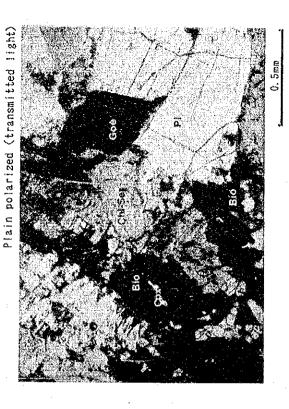
4: Abundant

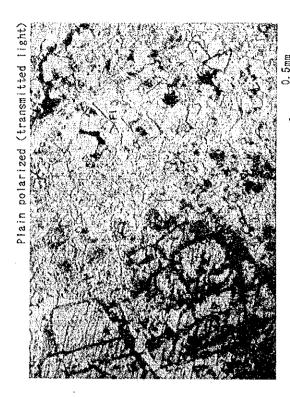
3: Common,

Sample No. C0709 Sector: Chilwa Is:

Rock name: Syenite Observation Note:

Potassium feldspar occurs as an euhedral or subhedfresh Mafic minerals are mainly presented as biotite (0.05 Small amount of sphene, apatite carbonate minerals Clinopyroxene is closely associated with biotite and is which is mostly altered 0.9 mm in diameter) and clinopyroxene (less than 0.5 mm and magnetite which is partly altered to goetite are also The specimen is mainly composed of potassium feldspar Plagioclase shows comparatively partly decomposed into carbonate minerals. of about 0.15 to 2.5 mm, and chlorite. Plagioclas plagioclase. rai grain diameter). occurence. muscovite served.



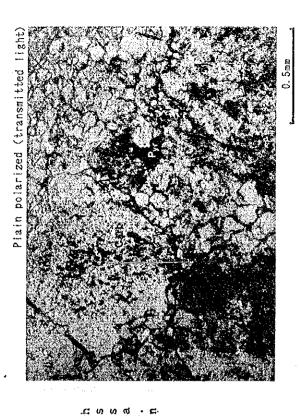


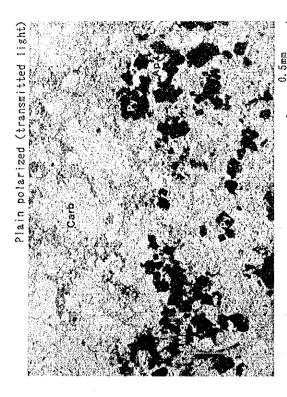
Sample No. C1208 Sector: Chilwa Is.

Rock name: Sovite Obsevation Note: The specimen shows porphyritic texture with euhedral to anhedral carbonate mineral (0.1 mm in diameter) and euhedral to subhedral fluorite (0.5 to 2.0 mm in diameter). Phenocrysts of carbonate minerals (0.5 to 2.0 mm in diameter) are also observed. Anhedral plugged quartz (0.1 to 0.2 mm in diameter) and barite, and anhedral dusty or granular magnetite which is partly altered to goetite are also rarely detected.

Sample No. C1304
Sector: Chilwa Is.
Rock name: Ankeritic sovite
Observation Note:

The specimen is mainly composed of carbonate mineral which occurs as a porphyritic texture. The porphyritic part consists of grains from 0.35 to 1.75 mm in diameter, and the matrix is formed by grains less than 0.15 mm in diameter. The area proportion between porphyritic and matrix parts are almost same. Dark green subhedral to anhedral pyroclore (less than 0.2 mm in diameter) and plugged quartz and magnetite are rarely detected.





and

Sector: Chilwa Is.

Rock name: Apatite Sovite

Obsevation Note:

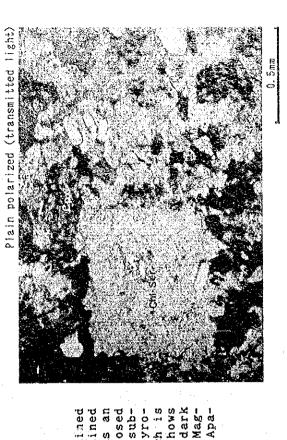
The specimen consists of two fine grained parts; carbonaterich and apatite-rich parts. The carbonate-rich part occurs as a granular mosaic texture with 0.05 to 0.5 mm in grain size. The apatite-rich part is very fine (less than 0.15 mm in diameter) and irregularly associates with plugged carbonate minerals.

A small amount of barite, quartz, pyrite, magnetite pyroclore is also observed, but barite is not detected in apatite-rich part.

Sample No. C1607 Sector: Chilwa Is.

Rock name: Syenite Observation Note:

xene is euhedral to subhedral with light green in color, which is grained Plagioclase occurs as an or subhedral grain and is almost completely decomposed into Sericite (muscovite) + chlorite. Potassium feldspar is sub-hedral to anhedral and is mostly altered to albite. Clinopyro-SHOUS grained to subhedral and platy shape with light brown or n color, which is associated with clinopyroxene. The specimen is mainly composed of medium to coarse medium altered to carbonate + opaque minerals. s generally anhedral and is altered to tite, carbonate and sphene are rarely observed. and potassium feldspar, biotite and magnetite. and clinopyroxene, plagioclase euhedral anhedral





Sample No. C1610

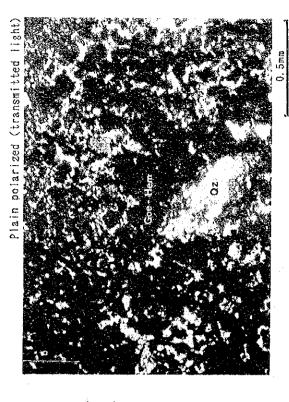
Sector: Chilwa Is. Rock name: Nepheline Syenite Observation Note:

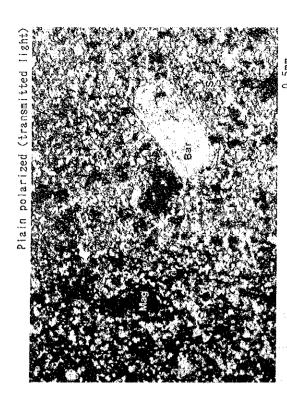
The rock may be originally coarse grained plutonic rock such as nepheline syenite which is composed of feldspar, biotite, clinopyroxene and pyrite. However, feldspar is almost completely altered to sericite and carbonate and only a few plagioclase is remained. Biotite is partly decomposed of plagioclase, carbonate, chlorite, sericite, magnetite and goetite. Clinopyroxene is also partly altered to carbonate, magnetite and goetite.

Sample No. C1901 Sector: Chilwa Is.

Rock name: Altered Sideritic Carbonatite Observation Note:

The specimen is severely altered. Magnetite is decomposed into goetite and hematite along its grain surface and crack. Siderite is completely altered to goetite and carbonate. Plugged potassium feldspar and quartz are rarely observed.





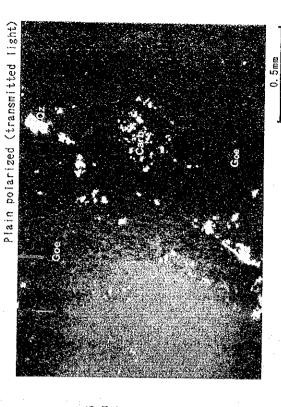
Sample No. C2007 Sector: Chilwa Is.

Rock name: Phonolite Observation Note:

The primary rock had most probably an intergranuler texture with feldspar and feldspathoid, but were completely altered to sericite. The specimen consists of euhedral to subhedral feldspar or feldspathoid, subhedral clinopyroxene and anhedral biotite. Phenocrysts of barite (0.6 mm in diameter) and biotite (less than 0.3 mm in diameter) are observed. Magnetite and secondary carbonate are also detected.

Sample No. C2106 Sector: Chilwa Is. Rock name: Altered Sideritic Carbonatite Observation Note:

The specimen consists mainly of euhedral to subhedral magnetite and goetite. The texture shows porphyritic part (1.5 to 7 mm in grain size) and matrix part (less than 0.5 mm in grain size). Anhedral quartz (less than 0.3 mm), yellowish brown to colorless carbonate and potassium feldspar (less than 0.3 mm) are rarely observed in the matrix part.



Plain polarized (transmitted light)

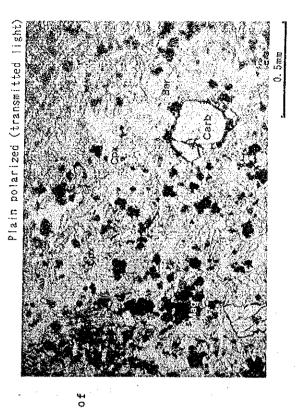
Sample No. C2208 Sector: Chilwa Is.

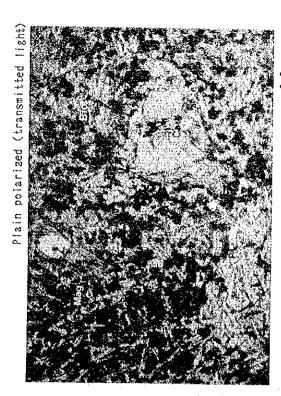
Rock name: Ankeritic Sovite Observation Note:

The specimen mainly consists of carbonate and shows porphyritic texture with 0.2 to 1.0 mm porphyritic part and very fine grained matrix. Euhedral to subhedral grains are common in the porphyritic part but anhedral in the matrix part. Siderite is involved in the matrix carbonate minerals. Anhedral to euhedral magnetite which is altered to goetite and hematite, and granular to plugged quartz are rarely observed.

Sample No. C2301 Sector: Chilwa Is. Rock name: Comptonite Observation Note:

The specimen shows a panidiomorphic texture and is composed of euhedral clinopyroxene, platy biotite, granular magnetite and plugged sericite. The other porphyritic mineral is also observed, which is completely decomposed into chlorite and carbonate except partly remained barite.





Sector: Chilwa Is. Rock name: Lamprophyre

Observation Note:

The specimen shows a panidiomorphic texture with plagioclase (0.15 mm in diameter), platy biotite (ca.0.05 mm) and hornblende (ca. 0.05 mm).

Biotite pseudomorphs displaced to chlorite and carbonate are observed.

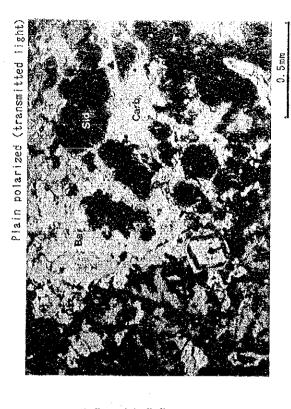
A small amount of magnetite and pyrite is present.

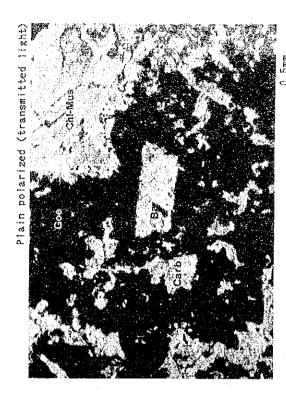
A - 24

Sample No. C2408 Sector: Chilwa Is:

Rock name: Sideritic Carbonatite Observation Note:

of euhedral to subhedral light yellowish brown siderite Phenocrysts (0.2 to 1.75 mm in diameter) and subordinate colorless carbonate. Siderite shows a spherulitic texture and fluorite conbarite Opaque Quartz and diameter). groundmass is composed of siderite, barite, es as a pool (8 mm in diameter). as aggregates (less than 0.6 mm in specimen shows a porphyritic mineral is little observed. centrates The consist quartz occur Lhe





Sample No. C2606 Sector: Chilwa Is.

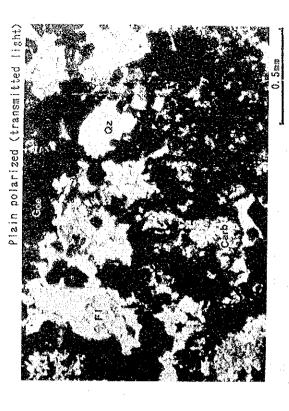
Rock name: Sideritic carbonatite Observation Note:

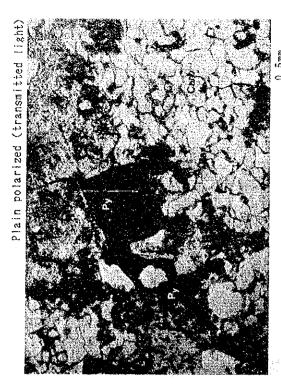
The specimen is severely altered. Magnetite is altered to goetite, and feldspar is decomposed into sericite. Aggregate of goetite and carbonate is also formed, which suggests siderite is the primary mineral. Magnetite, quartz, fluorite and barite are barely remained as the primary mineral.

Sample No. C2609

Sector: Chilwa Is. Rock name: Sideritic carbonate

goetite (0.2 mm in diameter) which is originated from siderite is Fluorite is euhedral to anhedral and less than 0.7 mm potassium feldspar occur as a vein or pool (less than 1.25 mm in Magnetite is mostly Pyroclore is rarely detected. Anhedral quartz and fluorite. carbonate Primary carbonate mineral is also observed magnetite, Aggregate of potassium feldspar and carbonate. The specimen is mainly composed anhedral grain of ca.0.3 mm in diameter to hematite and goetite. Observation Note: in diameter. diameter). observed. quartz, altered





Sample No. C2810 Sector: Chilwa Is.

Rock name: Ankeritic Sovite

Observation Note:

The specimen shows a mosaic texture of colorless carbonate (0.1 to 0.25 mm in diameter). The other rock forming minerals are potassium feldspar, quartz, barite, flubrite and opaque mineral. Potassium feldspar generally forms an aggregate of fine grains including magnetite and carbonate. Opaque mineral involves euhedral to subhedral pyrite (0.07 to 0.7 mm in diameter) and magnetite (0.05 to 0.1 mm in diameter). A very few muscovite is also observed as the secondary mineral.

Sector: Chilwa Is.

Rock name: Ankeritic Sovite

in diameter). Anhedral granular quartz is subordinately present and forms an aggregate (0.2 to 0.7 mm in Subhedral to anhedral pyrite and magnetite which is anhedral severely altered to goetite are rarely observed. Composed of mostly carbonate (0.1 to 0.7 mm Specimen Observation Note: diameter).

granular

Plain polarized (transmitted light)

Plain polarized (transmitted light)



Sector: Chilwa Is. Sample No. C2907

Rock name: Altered Sideritic Carbonatite

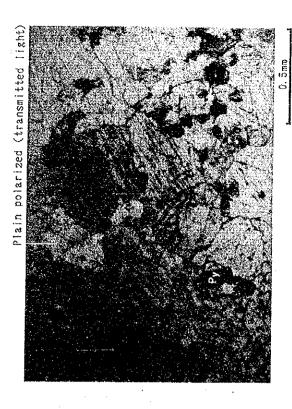
Observation Note:

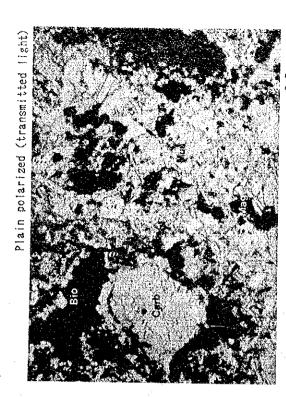
decomposed into goetite, and siderite into carbonate and goetite. which are both less than 0.2 Two types of carbonate minerals; color-Magnetite The specimen is altered severely. less and brown grain, are present, No siderite is observed. mm in diameter.

Sample No. C3003 Sector: Chilwa Is.

Rock name: Sovite Observation Note:

The specimen is mainly composed of carbonate (0.05 to 0.7 mm in diameter) with a mosaic texture. Barite, quartz and pyrite are subordinately present. Quartz is less than 0.2 mm in diameter and is accompanied with pyrite which is mostly altered to goetite.





Sample No. C3009 Sector: Chilwa Is.

Rock name: Contamination of Alkali rock & Carbonatite Observation Note:

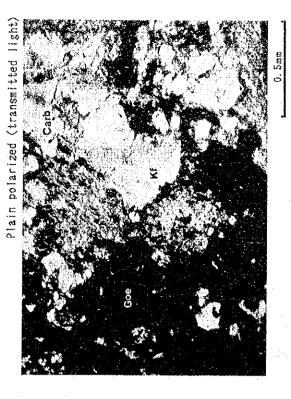
The specimen is composed of carbonate, muscovite, biotite and magnetite. Carbonate is anhedral grain with less than 0.5 mm in diameter. Biotite shows a porphyritic occurrence and is altered to aggregate of recrystalized fine biotite. Magnetite partly shows a porphyritic texture and is decomposed into hematite, goetite, carbonate. Apatite and titan mineral are also

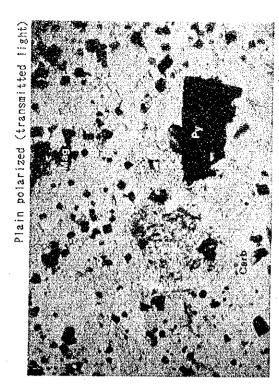
observed a little.

Sample No. C3109 Sector: Chilwa Is.

Rock name: Syenite Observation Note:

The specimen is probably originated from a felspathic syenite (or trachyte), but the feldspar is mostly altered to sericite including kaoline. The mafic minerals are also altered to carbonate and goetite except a small amount of biotite, magnetite and apatite. Carbonate vein is observed.





Sample No. C3210 Sector: Chilwa Is.

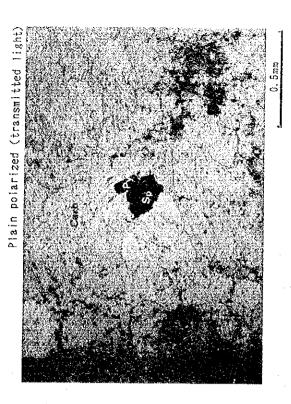
Rock name: Sovite Observation Note:

The specimen is composed of carbonate with a mosaic texture (0.07 to 0.25 mm in diameter). Opaque mineral is partly distributed. It is euhedral to subhedral magnetite (0.3 mm in diameter) and pyrite (0.6 mm in diameter). Muscovite and pyroclore are the other rock forming minerals.

Sample No. C3211

Sector: Chilwa Is Rock name: Sovite Observation Note:

The specimen is mainly composed of anhedral granular carbonate (0.1 to 0.3 mm in diameter) with a mosaic texture. Apatite is partly concentrated and forms plugged aggregates. Zonated pyroclore (0.1 mm in diameter), sphalerite and pyrite is rarely observed.





Sample No. S1404 Sector: Songwe

Rock name: Carbonized Agglomerate

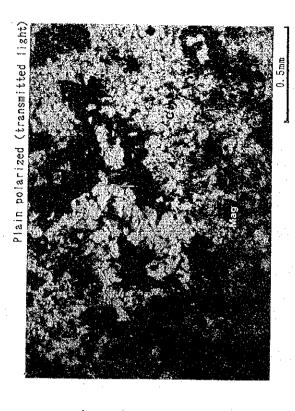
Observation Note:

The specimen is mainly composed of carbonate, potassium feldspar and opaque mineral. Carbonate is anhedral granular (less than 0.3 mm in diameter) and potassium feldspar is euhedral to anhedral porphyritic (less than 1.1 mm in diameter). Opaque mineral is primarily magnetite but is altered to goetite. Dusty opaque is distributed in the matrix.

Sector: Chilwa Is Sample No. S1510

Rock name: Sovite Observation Note:

feldspar altered to albite and light brown carbonate are granular Anhedral to euhedral magnetite and hematite are observed. Potastexture. (0.05 to 0.45 mm in diameter) with a mosaic composed of anhedral mainiy Specimen also observed. carbonate The



Plain polarized (transmitted light)

Sample No. S1604

Rock name: Iron Oxide Ore Sector: Songwe

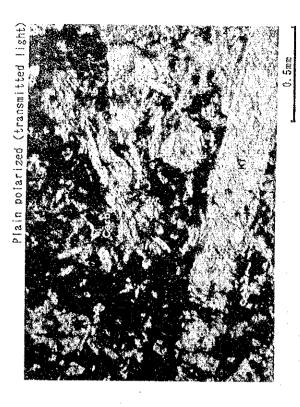
The specimen is mainly composed of euhedral magnetite and hematite (less than 0.1 Observation Note:

shows intergranular occurrence and the size is less than 0.2 mm diameter). These subordinate to subhedral Carbonate and form aggregates with coarse grained carboin diameter. Barite is also rarely observed. These subordin minerals are usually distributed in the part where magnetite Magnetite and hematite form roughly banded texture. hematite is poor,

Sample No. S1907 Sector: Songwe

Rock name: Altered nepheline syenite Observation Note:

The specimen had probably trachytic texture with phenocrysts of felspar in the primary form, but feldspar and feldspathoid were almost completely altered to albite. The groundmass is decomposed into sericite, chlorite, hematite, goetite, carbonate and partly biotite without potassium feldspar. A small amount of fluorite is also observed.





Sample No. T2501 Sector: Tundulu Rock name: Apatite Rock Observation Note:

The specimen is mainly composed of apatite, quartz, carbonate and opaque mineral. Apatite is very rich and is euhedral (0.07 to 0.15 mm in diameter). Quartze is annedral and the size is less than 0.6 mm in diameter. Opaque mineral is euhedral or subhedral (less than 2.5 mm in diameter), and is mostly altered to goetite and carbonate.

Rock name: Altered Sideritic Carbonate Sector: Tundulu

quartz and carbonate less than 0.35 mm in diameter are Opaque mineral mostly consists of goetite carbonate. to opaque and carbonate. Euhedral pyroclore (less than 0.25 mm in diameter) is present in composed of opaque minerals. Apatite and barite are also observed a little. subhedral which is The specimen is severely altered, is altered medium to coarse grained euhedral Siderite occurred like a vein. Observation Note: hematite. Granular





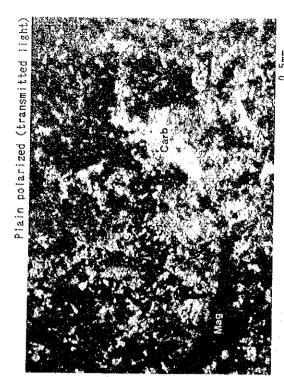
Sample No. T2607 Sector: Tundulu

Rock name: Apatite Rock

Observation Note:

altered to hematite, goetite and carbonate. Euhedral pyroclore is rarely observed (less than 0.25 mm). Euhedral apatite is crystal with wavy extinction. Potassium feldspar is subhedral to anhedral and is less than 1.2 mm in diameter. carbonate, Quartz is plugged anhedral apatite. is euhedral and is less than 2.5 mm in diameter. quartz, potassium feldspar and opaque mineral o. composed also observed (less than 0.4 mm). specimen is mainly The

Plain polarized (transmitted light)



The specimen is mainly composed of biotite, potassium teldspar, carbonate and opaque mineral. Biotite showing euhedral to subhedral shape is very abundant and the grain size is less than 1.7 mm in diameter. Carbonate is anhedral (less than 1.7 Potassium feldspar is a subhedral to anhedral crystal of less than 1.75 mm in grain size, and is mostly altered to chlorite + hematite and carbonate but a small amount of magnetite is remained. Olivine and quartz are rarely observed.

Rock name: Biotite rich carbonatite

Observation Note:

Sample No. T2611

Sector: Tundulu

Sample No. 8Y033 Sector: Chilwa Is. Rock name: Altered Trachyte Observation Note:

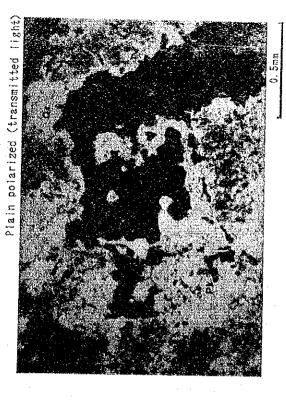
The specimen may originally show a porphyritic texture, but the alteration is very severe and the whole rock is altered to sericite, goetite and hematite. Pseudomorph of feldspar composed of carbonate and sericite is observed (less than 0.6 mm in diameter).

Sample No. 8Y042

Rock name: Syenite Sector: Chilwa

Observation Note:

Potassium potassium plagioclase Most Plagioclase shows anhedral to subhedral and occurs albite twin of crystal diameter) Quartz is anhedral and distri-Apatite, pyrite, magnesericite. (less than 0.7 mm in diameter) and shows green in color. Clinopyroxene is an euhedral to subhedral The specimen is mainly composed of coarse grained to subhedral (less than 3.0 mm in 0.1 mm in diameter. clinopyroxene, is decomposed into albite and a small amount suted along the margin of clinopyroxene. and fine to medium grained tite and carbonate are also observed. of the crystal forms aggregates, ess than 0.5 mm in grain size. eldspar is euhedral quartz. feldspar and, and



Plain polarized (transmitted light)

Sector: Chilwa Is.

Rock name: Fenitized gneiss Observation Note:

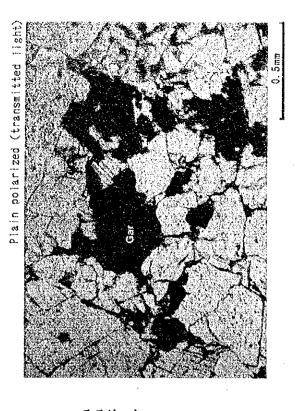
The specimen is mainly composed of medium grained potassium Potašsium feldspar is grained mm), and in particular clinopyroxene and biotite are partly form Apatite, titan mineral and magnetite Clinopyroxene Quartz hornblende and biotite are anhedral to subhedral (less than subhedral to anhedral and plagioclase occurs albite twin. med i um with sericte. and fine to diameter. and biotite. red to albite associated and is less than 1.5 mm in plagioclase and quartz, clinopyroxene, hornblende are subordinately present respectively altered aggregates, feldspar, anhedral

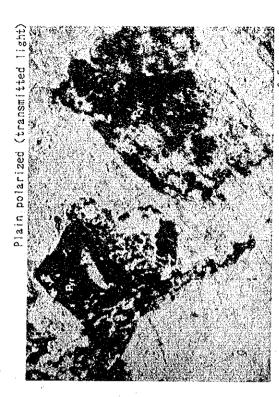
Both.

Sample No. 8Y057 Sector: Chilwa Is.

Rock name: Sovite Observation Note:

The specimen consists of anhedral granular carbonate with mosaic texture, which is 0.2 to 0.5 mm (max 3.5 mm) in grain size. Anhedral granular quartz which forms aggregates and dark brown subhedral granular garnet are subordinately present. Pseudomorphs composed of goetite are observed, which are probably derived from hornblende or pyroxene.





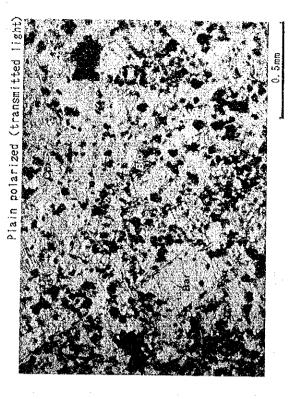
Sample No. 8Y058 Sector: Chilwa Is.

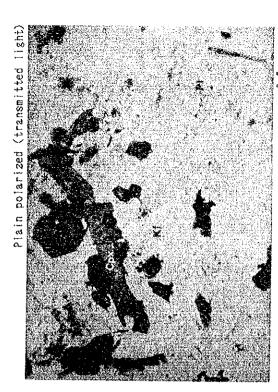
Rock name: Sovite Observation Note:

mineral derived from Pyroclore, apatite, quartz, of anhedral pyrociore is closely concerned to apatite and magnetite. completely pyrite and magnetite are subordinately present. Mafic composed or pyroxene is observed and is carbonate. texture. is mainly carbonate with mosaic goetite + quartz + Specimen The biotite

Sample No. 8Y061 Sector: Chilwa Is. Rock name: Comptonite Observation Note:

The specimen shows a panidiomorphic texture and is mainly composed of clinopyroxene, biotite, magnetite, pyrite and sericite aggregate. Porphyritic mineral which is mostly barite is also observed and is partly altered to chlorite and carbonate. Apatite is partly concentrated.





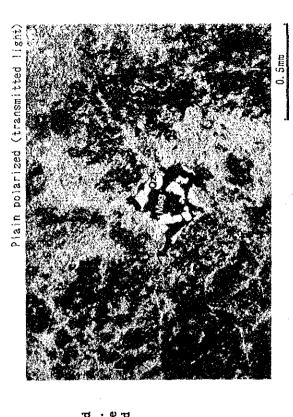
Sector: Chilwa Is.

Rock name: Syenite Observation Note:

The specimen is mainly composed of plagioclase, potassium feldspar occur a graphic intergrouth. Plagioclase is euhedral and is 3.5 mm in maximum length. Clinopyroxene shows yellowish green to green in color and is euhedral to subhedral (less than 2.0 mm). Magnetite, sphalerite are subordinately present. Secondary sericite and carbonate are also occupied.

Sample No. 8Y145 Sector: Chilwa Is. Rock name: Alkali syenite Observation Note:

The specimen is mostly composed of medium to coarse grained subhedral potassium feldspar which is decomposed into albite. Quartz and magnetite are subordinately present, which are usually associated with togather. Magnetite is partly altered to goetite





Sample No. 8Y147 Sector: Chilwa Is. Rock name: Sovite Observation Note:

The specimen is mainly composed of anhedral granular carbonate with a mosaic texture. Euhedral to subhedral granular light brown garnet is present and is partly altered to carbonate + epidote + opaque mineral. Clinopyroxene, apatite, magnetite, pyrite and biotite are also observed a little. Clinopyroxene is partly altered to epidote and magnetite is partly decomposed into hematite.

Appendix 4

X-ray diffractive analysis and charts

Result of X-ray Diffraction Analysis

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sparite ficrolite	}	m	·	e e	H
Barite	H H	. H H	H H		
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yrochlore	 		 		
Soethite	N N	H H	r-t		
Hematite	4			<u> </u>	H .
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941200113	<u>m</u>			1 4	
Sericite	<u>-1</u>				
Chlorite	<u> </u>		<u> </u>		
K-feldspar				<u></u>	
Plagioclase		<u> </u>	H		<u> </u>
Juarez	H 22 H	नल ८न	러러버리	2 10	<u> </u>
уулс руятте		H	_ 	pri pri	
Strontlanite		И Н	7		
Calkinsite					
Bastnaesite		7	73	H	
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