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## **APPENDIXES**





## APPENDIXES

- Appendix-I -1 Bibliography on Geology and Mining of the Coast Province, Kenya
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- Appendix-III Microscopic Observation of Ore Minerals in Polished Section
- Appendix-IV EPMA Analysis
- Appendix-V X-ray Diffraction Analysis
- Appendix-VI Pb-Pb Age Dating
- Appendix-VII Whole Rock Analysis of Samples from the Mombasa Area
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Appendix - I -1

**BIBLIOGRAPHY ON GEOLOGY AND MINING  
OF THE COAST PROVINCE, KENYA**

DATA BASE : DIALOG

FILE NAME : GEOREF (#89)

DATA INVENTORY: SINCE 1915



01916577 GEOREF NO.: 90-48814 BIBL. INDEX GEOLOGY NO.: 90-50053  
TITLE: Present day ore deposition in the geothermal systems of Kenya; I,  
The Mwananyamala hot springs, northeast of Jombo Hill, Coast Province  
AUTHOR(S): Tole, Mwaklo P.  
CORPORATE SOURCE: Moi Univ., Sch. Env. Stud., Eldoret, Kenya  
SOURCE: Geothermics vol. 19 no. 2 p. 233-239  
DATE: 1990  
COUNTRY OF PUBLICATION: International  
CODEN: GTMCAT ISSN: 0375-6505 REFS.: 5  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; 2 tables; sketch maps  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya; \*mineral deposits; \*genesis  
DESCRIPTORS: economic geology; metal ores; processes; hydrothermal  
processes; East Africa; Africa; Jombo Hill; Coast Province; Mwananyamala;  
geothermal fields; mineral deposits; genesis; sandstone; clastic rocks;  
Permian; Triassic; hot springs; springs; pyrite ores; silver ores; zinc  
ores; copper ores; lead ores; iron ores; lanthanum; rare earths; metals;  
rare earth deposits  
SECTION HEADINGS: 27 (Economic Geology, Metals)

01879054 GEOREF NO.: 90-12118 BIBL. INDEX GEOLOGY NO.: 90-10459  
TITLE: Conditions in shallow wells in the south coast region of Kenya  
AUTHOR(S): Thambu, G. K.; Goulter, I. C.  
CORPORATE SOURCE: Minist. Water Dev., Nairobi, Kenya; Univ. Manit., Dep.  
Civ. Eng., Canada  
SOURCE: Water International vol. 14 no. 3 p. 112-121  
DATE: 1989  
COUNTRY OF PUBLICATION: United States  
ISSN: 0250-8060 REFS.: 2  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; 5 tables; sketch maps  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya; \*ground water  
DESCRIPTORS: hydrogeology; surveys; East Africa; Africa; southern Kenya;  
water wells; water quality; Kwale; aquifers; pumping  
SECTION HEADINGS: 21 (Hydrogeology & Hydrology)

01869941 GEOREF NO.: 90-03491 BIBL. INDEX GEOLOGY NO.: 90-03761  
TITLE: Groundwater assessment in sedimentary basins of eastern Kenya,  
Africa  
AUTHOR(S): Krhoda, George Okoye  
CORPORATE SOURCE: Univ. Nairobi, Dep. Geogr., Nairobi, Kenya  
MONOGRAPH TITLE: Regional characterization of water quality  
EDITOR(S): Ragone, Stephen E. (editor)  
CORPORATE SOURCE: U. S. Geol. Surv., Groundwater Contam. Program, Reston,  
VA, United States  
CONFERENCE TITLE: Regional characterization of water quality  
CONFERENCE LOCATION: Baltimore, MD, United States  
CONFERENCE DATE: May 1989  
SOURCE: IAHS-AISH Publication vol. 182 p. 111-124  
DATE: 1989  
COUNTRY OF PUBLICATION: International  
CODEN: PIHSD9 ISSN: 0144-7815 REFS.: 15  
SUBFILE: B  
DOCUMENT TYPE: Serial; Conference BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; 5 tables  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya; \*ground water; \*hydrology  
DESCRIPTORS: hydrogeology; surveys; East Africa; Africa; eastern Kenya;  
sedimentary basins; water resources; possibilities; Tertiary; Quaternary;  
aquifers; recharge; water management; economic geology; Tana River; Ewaso  
Ng'iro River; Daua River; laghas; ephemeral streams; streams; Dua  
limestone; Marchan Series; Merti Beds; upper Pleistocene; Pleistocene;  
Mandera; Garissa; Wajiu; Isiolo; Kituu; Kilifi; Lamu; water quality  
SECTION HEADINGS: 21 (Hydrogeology & Hydrology)

01789592 GEOREF NO.: 89-02593 BIBL. INDEX GEOLOGY NO.: 89-06120  
TITLE: Possible uses of geothermal fluids in Kenya  
AUTHOR(S): Kamondo, Wanjie C.  
CORPORATE SOURCE: Minist. Energy and Reg. Dev., Nairobi, Kenya  
MONOGRAPH TITLE: Small geothermal resources; Part 2, Geothermal projects  
in developing countries  
AUTHOR(S): Barbier, E.; Dickson, M. H.; Fanelli, M.  
CORPORATE SOURCE: Int. Inst. Geotherm. Res., Pisa, Italy  
CONFERENCE TITLE: 1st UNITAR/UNDP Workshop on Small geothermal resources  
CONFERENCE LOCATION: Pisa, Italy  
CONFERENCE DATE: May 11-22, 1987  
SOURCE: Geothermics vol. 17 no. 2/3 p. 489-501  
DATE: 1988  
COUNTRY OF PUBLICATION: International  
CODEN: GTMCAT ISSN: 0375-6505 REFS.: 6  
SUBFILE: B  
DOCUMENT TYPE: Serial; Conference BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: 6 tables; sketch maps  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya  
DESCRIPTORS: economic geology; geothermal energy; hydrogeology; thermal  
waters; East Africa; Africa; exploration; Jombo Hill Springs; Olkaria;  
Eburru; Menengai; Bogoria; Longonot; Suswa; exploitation; Homa Mountain;  
Lake Magadi; East African Lakes; chemical composition; hydrochemistry  
SECTION HEADINGS: 29 (Economic Geology, Energy Sources); 21  
(Hydrogeology & Hydrology)

01675738 GEOREF NO.: 88-68458 BIBL. INDEX GEOLOGY NO.: 88-67548  
TITLE: Deposition of metals from the Jombo Hill geothermal field, Coast  
Province, Kenya  
AUTHOR(S): Tole, Mwakio P.  
CORPORATE SOURCE: Univ. Nairobi, Dep. Geol., Nairobi, Kenya  
MONOGRAPH TITLE: V. M. Goldschmidt conference; program and abstracts  
AUTHOR(S): Anonymous  
CONFERENCE TITLE: V. M. Goldschmidt conference  
CONFERENCE LOCATION: Baltimore, MD, United States  
CONFERENCE DATE: May 11-13, 1988  
PUBLISHER: Penn. State Univ., University Park, PA, United States, Geochem.  
Soc. Am., United States p. 78  
DATE: 1988  
COUNTRY OF PUBLICATION: United States  
SUBFILE: B  
DOCUMENT TYPE: Abstract; Book; Conference BIBLIOGRAPHIC LEVEL: Analytic  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya  
DESCRIPTORS: economic geology; metal ores; East Africa; Africa;  
hydrothermal processes; geochemistry; hot springs; springs; Jombo Hill;  
geothermal fields; Coast Province; alkalic composition; lead ores; zinc  
ores; copper ores; iron ores; silver ores; lanthanum; thermal waters;  
ore-forming fluids  
SECTION HEADINGS: 27 (Economic Geology, Metals); 02 (Geochemistry)

01665103 GEOREF NO.: 88-57552 BIBL. INDEX GEOLOGY NO.: 88-55998  
TITLE: Joint three-dimensional inversion of gravity and magnetic data  
from Jombo Hill alkaline complex, Kenya  
AUTHOR(S): Dindi, E. W.; Swain, C. J.  
CORPORATE SOURCE: Univ. Nairobi, Dep. Geol., Nairobi, Kenya; Univ.  
Zimbabwe, Zimbabwe  
SOURCE: Journal of the Geological Society of London vol. 145 Part 3 p.  
493-504  
DATE: 1988  
COUNTRY OF PUBLICATION: United Kingdom  
CODEN: JGSLAS ISSN: 0016-7649 REFS.: 27  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; 3 tables; geol. sketch maps  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya; \*igneous rocks  
DESCRIPTORS: petrology; alkaline composition; geophysical surveys; surveys;  
East Africa; Africa; gravity surveys; magnetic surveys; Jombo Hill  
SECTION HEADINGS: 05 (Petrology, Igneous & Metamorphic); 20  
(Geophysics, Applied)

01648043 GEOREF NO.: 88-39641 BIBL. INDEX GEOLOGY NO.: 88-39148  
TITLE: Stratigraphy and geodynamics of the Mombasa Basin (Kenya) in  
relation to the genesis of the proto-Indian Ocean  
AUTHOR(S): Rais-Assa, R.  
CORPORATE SOURCE: CNRS, France  
SOURCE: Geological Magazine vol. 125 no. 2 p. 141-147  
DATE: 1988  
COUNTRY OF PUBLICATION: United Kingdom  
CODEN: GEMGA4 ISSN: 0016-7568 REFS.: 28  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; strat. col.; sects.; geol. sketch maps  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya  
DESCRIPTORS: tectonophysics; plate tectonics; East Africa; Africa; Mombasa  
Basin; Indian Ocean; rifting; stratigraphy; Jurassic; Middle Jurassic;  
Tethys; sedimentation; Karroo System; rift zones; proto-Indian Ocean  
SECTION HEADINGS: 18 (Geophysics, Solid Earth)

01875905 GEOREF NO.: 90-08384 BIBL. INDEX GEOLOGY NO.: 90-11802  
TITLE: Ring complexes in Kenya  
AUTHOR(S): Ogola, J. S.; Nyambok, I. O.  
CORPORATE SOURCE: Univ. Nairobi, Dep. Geol., Nairobi, Kenya  
CONFERENCE TITLE: GeoSom 87; geology of Somalia and surrounding regions  
CONFERENCE LOCATION: Mogadishu, Somalia  
CONFERENCE DATE: Nov. 23-30, 1987  
PUBLISHER: Somali Natl. Univ., Mogadishu, Somalia p. 103  
DATE: 1987  
COUNTRY OF PUBLICATION: Somalia  
SUBFILE: B  
DOCUMENT TYPE: Abstract; Book; Conference BIBLIOGRAPHIC LEVEL: Analytic  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya  
DESCRIPTORS: economic geology; mineral resources; East Africa; Africa;  
petrology; intrusions; ring complexes; carbonatites; mineral exploration;  
Rangwa Complex; Homa Complex; North Ruri Complex; South Ruri Complex;  
Tinge Complex; Sokoto Complex; Tinderet Complex; Londiani Complex; Jombo  
Complex; Mrima Complex; niobium ores; metal ores; phosphate rocks;  
chemically precipitated rocks; apatite; phosphates; barite deposits;  
pyrochlore; halides; niobates; tantalates; oxides; fluorides;  
niobotantalates; laterites; soils; iron ores; manganese ores; aluminum  
ores; barium; alkaline earth metals; metals; geothermal energy  
SECTION HEADINGS: 26 (Economic Geology, General & Mining)

01630599 GEOREF NO.: 88-21365 BIBL. INDEX GEOLOGY NO.: 88-18162  
TITLE: An unusual vanadium-beryl from Kenya  
AUTHOR(S): Ghera, A.; Lucchesi, S.  
CORPORATE SOURCE: Univ. Roma, Dip. Sci. Terra, I-00186 Rome, Italy  
SOURCE: Neues Jahrbuch fuer Mineralogie. Monatshefte. vol. 1987 no. 6  
p. 263-274  
DATE: 1987  
COUNTRY OF PUBLICATION: Germany, Federal Republic of  
CODEN: NJMMAW ISSN: 0028-3649 REFS.: 33  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; 4 anal.; 2 tables; chart  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya; \*minerals; \*crystal chemistry  
DESCRIPTORS: mineralogy; ring silicates; beryl; vanadium; aluminum;  
beryllium; silicates; TGA data; cell dimensions; refractive index;  
density; inclusions; phlogopite; mica group; sheet silicates; apatite;  
phosphates; talc; quartz; silica minerals; framework silicates; East  
Africa; Africa; Taita; minerals; thermal analysis; X-ray data  
SECTION HEADINGS: 01 (Mineralogy & Crystallography)

01420557 GEOREF NO.: 85-65707 BIBL. INDEX GEOLOGY NO.: 85-62909  
TITLE: Some notes on superficial deposits and recent environmental  
changes in the Nyika and coastal zone of Kenya  
AUTHOR(S): Kadomura, H.; Horii, N.  
CORPORATE SOURCE: Hokkaido Univ., Lab. Fundam. Res., Sapporo, Japan  
MONOGRAPH TITLE: Natural and man-induced environmental changes in  
tropical Africa; case studies in Cameroon and Kenya; a preliminary report  
of the Tropical African Geomorphology and Late Quaternary  
Palaeoenvironments Research Project 1982/83  
EDITOR(S): Kadomura, H. (editor)  
CORPORATE SOURCE: Hokkaido Univ., Lab. Fundam. Res., Sapporo, Japan;  
Hiroshima Univ., Dep. Phys. Environ., Japan  
SOURCE: Special Publication - Laboratory of Fundamental Research, Hokkaido  
University p. 129-144  
DATE: 1984  
COUNTRY OF PUBLICATION: Japan  
REFS.: 21  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; sects.; geol. sketch maps  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya; \*geomorphology  
DESCRIPTORS: fluvial features; terraces; East Africa; Africa; Holocene;  
Quaternary; fluvial environment; Achatina; Taita Hills; erosion features;  
gravel; clastic sediments; Nyika; inselbergs; landform evolution; cuirass  
; forests; climate  
SECTION HEADINGS: 23 (Surficial Geology, Geomorphology)



01420556 GEOREF NO.: 85-65706 BIBL. INDEX GEOLOGY NO.: 85-62958  
 TITLE: Some aspects of the geomorphic evolution of the Kenya Coast with special reference to the Kambe Limestone rocks of the Kilifi area  
 AUTHOR(S): Ojany, F. F.  
 CORPORATE SOURCE: Univ. Nairobi, Dep. Geogr., Nairobi, Kenya  
 MONOGRAPH TITLE: Natural and man-induced environmental changes in tropical Africa; case studies in Cameroon and Kenya; a preliminary report of the Tropical African Geomorphology and Late Quaternary Palaeoenvironments Research Project 1982/83  
 EDITOR(S): Kadomura, H. (editor)  
 CORPORATE SOURCE: Hokkaido Univ., Lab. Fundam. Res., Sapporo, Japan  
 SOURCE: Special Publication - Laboratory of Fundamental Research, Hokkaido University p. 117-127  
 DATE: 1984  
 COUNTRY OF PUBLICATION: Japan  
 REFS.: 40  
 SUBFILE: B  
 DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
 ILLUSTRATIONS: illus.; 1 table; geol. sketch maps  
 LANGUAGE: English  
 MAJOR DESCRIPTORS: \*sedimentation; \*geomorphology; \*Kenya  
 DESCRIPTORS: environment; coastal environment; solution features; karst; landform evolution; East Africa; Africa; coastal plains; Kambe Limestone; Kilifi; drainage patterns; Jurassic; transgression; stratigraphy  
 SECTION HEADINGS: 23 (Surficial Geology, Geomorphology)

01355605 GEOREF NO.: 84-56482 BIBL. INDEX GEOLOGY NO.: 84-50895  
 MONOGRAPH TITLE: The ammonoid fauna of the Kimmeridgian-Tithonian boundary beds of Mombasa, Kenya  
 AUTHOR(S): Verma, H. M.; Westermann, G. E. G.  
 CORPORATE SOURCE: R. Ont. Mus., Dep. Invertebr. Paleontol., Toronto, CAN, Canada; McMaster Univ., Dep. Geol., Canada  
 SOURCE: Life Sciences Contributions - Royal Ontario Museum vol. 135  
 DATE: 1984 124 p.  
 COUNTRY OF PUBLICATION: Canada  
 ISBN: 0-88854-297-6  
 CODEN: ROMCAD ISSN: 0384-8159 REFS.: 132  
 SUBFILE: B  
 DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Monographic  
 ILLUSTRATIONS: illus.; 19 plates; tables; sects.; strat. cols.; geol. sketch map  
 LANGUAGE: English  
 COORDINATES: Latitude: S040500 ; S040500; Longitude: E0394500 ; E0394500  
 MAJOR DESCRIPTORS: \*Kenya; \*paleoecology; \*Mollusca; \*biogeography  
 DESCRIPTORS: stratigraphy; Jurassic; Ammonoidea; mollusks; East Africa; Africa; Mombasa; boundary; Tetrabranchiata; Cephalopoda; Kimmeridgian; Upper Jurassic; Tithonian; Portlandian; Freretown; faunal studies; assemblages; Changamwe Shales; new taxa; Miritini Shale; paleontology; ammonoids; biostratigraphy  
 SECTION HEADINGS: 10 (Paleontology, Invertebrate)

01916577 GEOREF NO.: 90-48814 BIBL. INDEX GEOLOGY NO.: 90-50053  
TITLE: Present day ore deposition in the geothermal systems of Kenya; I,  
The Mwananyamala hot springs, northeast of Jombo Hill, Coast Province  
AUTHOR(S): Tole, Mwakio P.  
CORPORATE SOURCE: Moi Univ., Sch. Env. Stud., Eldoret, Kenya  
SOURCE: Geothermics vol. 19 no. 2 p. 233-239  
DATE: 1990  
COUNTRY OF PUBLICATION: International  
CODEN: GTMCAT ISSN: 0375-6505 REFS.: 5  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; 2 tables; sketch maps  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya; \*mineral deposits; \*genesis  
DESCRIPTORS: economic geology; metal ores; processes; hydrothermal  
processes; East Africa; Africa; Jombo Hill; Coast Province; Mwananyamala;  
geothermal fields; mineral deposits, genesis; sandstone; clastic rocks;  
Permian; Triassic; hot springs; springs; pyrite ores; silver ores; zinc  
ores; copper ores; lead ores; iron ores; lanthanum; rare earths; metals;  
rare earth deposits  
SECTION HEADINGS: 27 (Economic Geology, Metals)

01521751 GEOREF NO.: 86-82445 BIBL. INDEX GEOLOGY NO.: 86-78646  
TITLE: The Carboniferous to Tertiary continental sediments of East Kenya  
AUTHOR(S): Karanja, F. M.  
CORPORATE SOURCE: Minist. Energy, Nairobi, Kenya  
MONOGRAPH TITLE: 1st conference on continental sediments in Africa;  
proceedings  
AUTHOR(S): Anonymous  
CONFERENCE TITLE: Conference on continental sediments in Africa; 1  
CONFERENCE LOCATION: Cairo, Aswan, Egypt  
CONFERENCE DATE: Oct. 16-23, 1983  
PUBLISHER: IGCP, Proj. 210  
DATE: 1983 15 p.  
REFS.: 1 p.  
SUBFILE: B  
DOCUMENT TYPE: Book; Conference BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; sketch maps; geol. sketch map; tables  
LANGUAGE: English  
NOTE: IGCP Project No. 210  
MAJOR DESCRIPTORS: \*Kenya; \*sedimentary rocks  
DESCRIPTORS: stratigraphy; Permian; Tertiary; Mesozoic; clastic rocks;  
sandstone; East Africa; Africa; terrestrial sedimentation; sedimentary  
basins; Karroo System; shale; siltstone; Upper Carboniferous;  
Carboniferous; marine sedimentation; review; sedimentation; sedimentary  
petrology; processes; IGCP; eastern Kenya; Duruma Group; Mombasa Basin;  
Lamu Basin; Mansa Guda Formation; Mandera-Lugh Basin; Marehan Formation;  
Anza Basin; Magarini Formation  
SECTION HEADINGS: 06 (Petrology, Sedimentary)

01399540 GEOREF NO.: 85-43834 BIRL. INDEX GEOLOGY NO.: 85-37262  
TITLE: Berdesinskiite, V SUB 2 TiO SUB 5 , a new mineral from Kenya and  
additional data for schreyerite, V SUB 2 Ti SUB 3 O SUB 3  
AUTHOR(S): Bernhardt, H. J.; Schmetzer, K.; Medenbach, O.  
CORPORATE SOURCE: Univ. Mineral.-Petrogr. Inst., Hamburg 2000, Germany,  
Federal Republic of  
SOURCE: Neues Jahrbuch fuer Mineralogie, Monatshefte vol. 1983 no. 3  
p. 110-118  
DATE: 1983  
COUNTRY OF PUBLICATION: Germany, Federal Republic of  
CODEN: NJMMAW ISSN: 0028-3649 REFS.: 13  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; 5 anal.; 7 tables  
LANGUAGE: English  
COORDINATES: Latitude: S041200 ; S041200; Longitude: E0384000 ; E0384000  
MAJOR DESCRIPTORS: \*Kenya; \*minerals  
DESCRIPTORS: mineralogy; oxides; intergrowths; new minerals; vanadium;  
titanium; polished sections; ore reflectivity; chemical composition;  
electron probe data; cell dimensions; X-ray data; gneisses; Precambrian;  
East Africa; Africa; geochemistry; metamorphic rocks; schreyerite;  
berdesinskiite; Kwale  
SECTION HEADINGS: 01 (Mineralogy & Crystallography)

01372386 GEOREF NO.: 85-15589 BIBL. INDEX GEOLOGY NO.: 85-10970  
TITLE: Reefal sediments of the fringing reefs off Mombasa, East Africa  
AUTHOR(S): Pereira, C. P. G.  
CORPORATE SOURCE: Mem. Univ. Newfoundland, C-CORE, St. John's, NF, Canada  
CONFERENCE TITLE: Eleventh international congress on sedimentology  
CONFERENCE LOCATION: Hamilton, ON, Canada  
CONFERENCE DATE: Aug. 22-27, 1982  
SOURCE: International Congress on Sedimentology = Congres International de  
Sedimentologie vol. 11 p. 169  
DATE: 1982  
COUNTRY OF PUBLICATION: International  
SUBFILE: B  
DOCUMENT TYPE: Abstract; Serial; Conference BIBLIOGRAPHIC LEVEL: Analytic  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya; \*sedimentation; \*sediments  
DESCRIPTORS: oceanography; reefs; environment; marine sediments; textures;  
East Africa; Africa; fringing reefs; Mombasa; grain size; statistical  
analysis; corals; foraminifers; microfossils; terrigenous materials;  
Halimeda; Codiaceae; Chlorophyceae; Chlorophyta; algae; algal flora  
SECTION HEADINGS: 07 (Marine Geology & Oceanography)

01446100 GEOREF NO.: 86-05579 BIBL. INDEX GEOLOGY NO.: 86-01034  
TITLE: Comparative geochemistry of nepheline syenites, tinguaite,  
phonolites and fenites from southern Portugal and East Africa  
AUTHOR(S): Rock, N. M. S.  
CORPORATE SOURCE: Inst. Geol. Sci., Edinburgh, United Kingdom  
SOURCE: Boletim da Sociedade Geologica de Portugal vol. 22 p. 421-433  
DATE: 1981  
COUNTRY OF PUBLICATION: Portugal  
CODEN: BOORAS ISSN: 0366-2101 REFS.: 72  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; 5 tables  
LANGUAGE: English SUMMARY LANGUAGE: Portuguese  
NOTE: Volume de homenagem ao Professor Doutor Carlos Teixeira  
MAJOR DESCRIPTORS: \*igneous rocks; \*strontium; \*isotopes; \*oxygen;  
\*Portugal; \*Tanzania; \*Kenya; \*niobium; \*yttrium; \*zirconium; \*germanium;  
\*nickel  
DESCRIPTORS: geochemistry; trace elements; Sr-87/Sr-86; ratios; O-18/O-16;  
Iberian Peninsula; Southern Europe; Europe; southern Portugal; stable  
isotopes; nepheline syenite; syenites; tinguaite; phonolites; volcanic  
rocks; fenite; metasomatic rocks; Monchique; East Africa; Africa; Mount  
Meru; Mount Kenya; Jombo Hill; Ruri Hills; Homa Mountain; Kisingiri  
Complex; Oldonyo Dili  
SECTION HEADINGS: 05 (Petrology, Igneous & Metamorphic)

01307884 GEOREF NO.: 84-07879 BIBL. INDEX GEOLOGY NO.: 84-07868  
TITLE: Studies of shores and shore displacement on the southern coast of  
Kenya; especially in Kilifi District  
AUTHOR(S): Ase, L. E.  
CORPORATE SOURCE: Univ. Stockholm, Dep. Phys. Geogr., Stockholm 11386,  
Sweden  
SOURCE: Geografiska Annaler. Series A: Physical Geography vol. 63 no.  
3-4 p. 303-310  
DATE: 1981  
COUNTRY OF PUBLICATION: Sweden  
CODEN: GAPGAP ISSN: 0435-3676 REFS.: 17  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; 2 tables; sketch map  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya; \*geomorphology; \*absolute age  
DESCRIPTORS: shore features; coastlines; dates; sediments; Holocene;  
Quaternary; C-14; fluctuations; marine terraces; uplifts; East Africa;  
Africa; stratigraphy; geochronology; neotectonics; Kilifi District  
SECTION HEADINGS: 24 (Surficial Geology, Quaternary Geology)

01303867 GEOREF NO.: 84-03814 BIBL. INDEX GEOLOGY NO.: 84-01068  
TITLE: A temporal and spatial analysis of foraminiferal diversity from  
the fringing reefs off Mombasa, East Africa  
AUTHOR(S): Banner, F. T.; Pereira, C. P. G.  
CORPORATE SOURCE: Univ. Coll. Swansea, Dep. Oceanogr., Swansea, S. Wales,  
United Kingdom  
MONOGRAPH TITLE: Microfossils from Recent and fossil shelf seas  
EDITOR(S): Neale, J. W. (editor); Brasier, M. D. (editor)  
CORPORATE SOURCE: Univ. Hull, United Kingdom  
COLLECTION TITLE: British Micropaleontological Society series  
CONFERENCE TITLE: British Micropalaeontological Society international  
symposium; Microfossils from Recent and fossil shelf seas  
CONFERENCE LOCATION: United Kingdom  
CONFERENCE DATE: July 1980  
PUBLISHER: Ellis Horwood, Chichester, United Kingdom, John Wiley & Sons,  
New York, NY, United States p. 350-366  
DATE: 1981  
COUNTRY OF PUBLICATION: United Kingdom, United States  
ISBN: 0-85312-338-1  
REFS.: 57  
SUBFILE: B  
DOCUMENT TYPE: Book BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; sketch maps  
LANGUAGE: English  
NOTE: Ellis Horwood series in geology  
COORDINATES: Latitude: S040300 ; S035500; Longitude: E0400000 ; E0380000  
MAJOR DESCRIPTORS: \*foraminifera; \*Indian Ocean; \*Kenya; \*Tanzania  
DESCRIPTORS: ecology; assemblages; paleontology; oceanography; continental  
shelf; Mombasa; East Africa; Africa; reefs; microfossils; Protista;  
Mtwapa Creek; Holocene; Quaternary; sedimentation; biofacies; diversity  
SECTION HEADINGS: 07 (Marine Geology & Oceanography); 10 (Paleontology,  
Invertebrate)

01282636 GEOREF NO.: 83-44917 BIBL. INDEX GEOLOGY NO.: 83-42233  
TITLE: Some interesting corals from the Middle Jurassic Kambe Limestone  
in Mombasa-Kwale area, Kenya  
AUTHOR(S): Yamagiwa, N.  
CORPORATE SOURCE: Osaka Kyoiku Univ., Dep. Earth Sci., Japan  
MONOGRAPH TITLE: Sixth preliminary report of African studies, Nagoya  
University (Earth Sciences 4), March 1981  
AUTHOR(S): Suwa, K.  
CORPORATE SOURCE: Nagoya Univ., Japan  
PUBLISHER: Nagoya Univ., Assoc. Afr. Stud., Nagoya, Japan p. 159-161  
DATE: 1981  
COUNTRY OF PUBLICATION: Japan  
REFS.: 6  
SUBFILE: B  
DOCUMENT TYPE: Book BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; 1 plate  
LANGUAGE: English  
COORDINATES: Latitude: S044000 ; S034500; Longitude: E0395000 ; E0390000  
MAJOR DESCRIPTORS: \*Kenya; \*Coelenterata  
DESCRIPTORS: paleontology; Scleractinia; Jurassic; Anthozoa; new taxa;  
Middle Jurassic; East Africa; Africa; Thamnasteria mwachiensis;  
Mombasa-Kwale  
SECTION HEADINGS: 10 (Paleontology, Invertebrate)

01058719 GEOREF NO.: 81-52752 BIBL. INDEX GEOLOGY NO.: 81-48200  
TITLE: The proto-Indian Ocean and probable Paleozoic/Mesozoic triradial  
rift system in East Africa  
AUTHOR(S): Cannon, R. T.; Simiyu Siambi, W. M. N.; Karanja, F. M.  
CORPORATE SOURCE: Mines and Geol. Dep., Nairobi, Kenya  
SOURCE: Earth Planet. Sci. Lett. vol. 52 no. 2 p. 419-426  
DATE: 1981  
COUNTRY OF PUBLICATION: International  
CODEN: EPSLA2 ISSN: 0012-821X REFS.: 30  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: chart; sketch map  
LANGUAGE: English  
COORDINATES: Latitude: S040000 ; S023000; Longitude: E0400000 ; E0390000  
MAJOR DESCRIPTORS: \*Kenya; \*Africa; \*Indian Ocean; \*continental drift;  
\*fish  
DESCRIPTORS: stratigraphy; Phanerozoic; tectonophysics; plate tectonics;  
Gondwana; biostratigraphy; Triassic; Permian; Kilifi; Karroo System;  
Paleozoic; Mesozoic; Jurassic; rifting; geometry; East Africa;  
sedimentation; paleocurrents  
SECTION HEADINGS: 12 (Stratigraphy, Historical Geology)

01333930 GEOREF NO.: 84-34576 BIBL. INDEX GEOLOGY NO.: 84-35228  
TITLE: Industrial minerals development in Kenya  
AUTHOR(S): Mason, J. E.; Theuri, F. G.  
CORPORATE SOURCE: Mines and Geol. Dep., Nairobi, Kenya  
MONOGRAPH TITLE: Fourth 'Industrial Minerals' international congress;  
abstracts  
AUTHOR(S): Anonymous  
CONFERENCE TITLE: Fourth 'Industrial Minerals' international congress  
CONFERENCE LOCATION: Atlanta, GA, United States  
CONFERENCE DATE: May 27-May 30, 1980  
SOURCE: Industrial Minerals vol. 152 p. 33  
DATE: 1980  
COUNTRY OF PUBLICATION: United Kingdom  
CODEN: IMINBG ISSN: 0019-8544  
SUBFILE: B  
DOCUMENT TYPE: Abstract; Serial; Conference BIBLIOGRAPHIC LEVEL: Analytic  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya  
DESCRIPTORS: economic geology; industrial minerals; Africa; East Africa;  
Mombasa; export; cement materials; construction materials; fluorspar;  
sodium carbonate; economics; gypsum deposits  
SECTION HEADINGS: 28 (Economic Geology, Nonmetals)

01349670 GEOREF NO.: 84-50464 BIBL. INDEX GEOLOGY NO.: 84-53640  
MONOGRAPH TITLE: Lead-zinc deposits of the Coast Province of Kenya and  
some exploration guidelines  
AUTHOR(S): Bugge, S. F.  
CORPORATE SOURCE: Geosurvey International, Dodoma, Tanzania, United  
Republic of  
SOURCE: Overseas Geology and Mineral Resources vol. 59  
DATE: 1982 19 p.  
COUNTRY OF PUBLICATION: United Kingdom  
CODEN: OGMRA3 ISSN: 0030-7467 REFS.: 42  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Monographic  
ILLUSTRATIONS: illus.; sketch map; geol. sketch map; sect.  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya; \*mineral exploration  
DESCRIPTORS: economic geology; lead-zinc deposits; geochemical methods;  
veins; metal ores; Triassic; Karroo System; faults; sulfides; galena;  
marcasite; chalcopyrite; sphalerite; regional geochemical methods; East  
Africa; Africa; Kinagoni Hill  
SECTION HEADINGS: 27 (Economic Geology, Metals)

01210408 GEOREF NO.: 82-39241 BIBL. INDEX GEOLOGY NO.: 82-36022  
TITLE: AGID; regional workshop on strategies for small scale mining and  
mineral industries  
AUTHOR(S): Berger, A. R.  
CORPORATE SOURCE: Memorial Univ. Newfoundland, St. John's, Canada  
SOURCE: Episodes vol. 1980 no. 2 p. 33  
DATE: 1980  
COUNTRY OF PUBLICATION: Canada  
ISSN: 0705-3797  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.  
LANGUAGE: English  
NOTE: Symposium held at Mombasa, Kenya, April 14-25, 1980  
MAJOR DESCRIPTORS: \*symposia; \*associations  
DESCRIPTORS: engineering geology; mining geology; general; Association of  
Geoscientists for International D; education; Kenya; East Africa; Africa;  
report  
SECTION HEADINGS: 22 (Engineering & Environmental Geology)

01173225 GEOREF NO.: 82-01558 BIBL. INDEX GEOLOGY NO.: 82-05041  
TITLE: Notes on the geology and mineral resources of the Mtito  
Andei-Taita area (southern Kenya)  
AUTHOR(S): Pohl, W.; Horkel, A.  
SOURCE: Mitt. Oesterr. Geol. Ges. vol. 73 p. 145-152  
DATE: 1980  
COUNTRY OF PUBLICATION: Austria  
REFS.: 29  
SUBFILE: B  
DOCUMENT TYPE: Serial; Map BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; 4 tables; 1 plate; strat. col.  
MAP TYPE: geol. map MAP SCALE: 1:120,000  
LANGUAGE: English SUMMARY LANGUAGE: German  
NOTE: With the collaboration of Neubauer, W., Niedermayer, G., Okelo, R.  
E., Wachira, J. K., and Werneck, W.  
COORDINATES: Latitude: S040000; S023000; Longitude: E0383000; E0380000  
MAJOR DESCRIPTORS: \*Kenya  
DESCRIPTORS: economic geology; mineral resources; areal geology; maps; East  
Africa; Africa; southern Kenya; economic geology maps; Mtito Andei; Taita  
; geologic maps; tectonics; gems; graphite deposits; base metals; metal  
ores; magnetite; oxides; kaolin deposits  
SECTION HEADINGS: 26 (Economic Geology, General & Mining)

01036651 GEOREF NO.: 81-29726 BIBL. INDEX GEOLOGY NO.: 81-27779  
 TITLE: Nagoya University East African Prehistoric Research Expedition in  
 1978/79  
 EDITOR(S): Omi, G. (editor)  
 SOURCE: Preliminary Report of African Studies, Nagoya University vol. 5  
 p. 1-8  
 DATE: 1980  
 COUNTRY OF PUBLICATION: Japan  
 REFS.: 4  
 SUBFILE: B  
 DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
 ILLUSTRATIONS: illus.; sketch maps  
 LANGUAGE: English  
 COORDINATES: Latitude: S050000 ; N050000 ; Longitude: E0420000 ; E0293000  
 Latitude: S043000 ; N043000 ; Longitude: E0420000 ; E0340000  
 Latitude: S020000 ; N040000 ; Longitude: E0350000 ; E0290000  
 MAJOR DESCRIPTORS: \*Kenya; \*Uganda  
 DESCRIPTORS: stratigraphy; archaeology; Pleistocene; Africa; Great Rift  
 Valley; Mweya North site; Mweya Peninsula; Lake Edward; Kazinga Channel;  
 Quaternary; Cenozoic; Kaiso Formation; Katanda Formation; Semliki Series;  
 Acheulian; Paleolithic; Rupa site; Moroto; Karamoja District; Mount  
 Moroto; Musopo River; Later Stone Age; chalcedony; silica minerals;  
 framework silicates; silicates; Mtongwe site; Mombasa; Early Stone Age;  
 Changamwe Terrace  
 SECTION HEADINGS: 24 (Surficial Geology, Quaternary Geology)

01026703 GEOREF NO.: 81-19424 BIBL. INDEX GEOLOGY NO.: 81-20956  
 TITLE: Sedimentary facies and palaeoenvironments associated with Tertiary  
 formations of the lower Galana River basin, Kenya  
 AUTHOR(S): Hove, A. R. T.  
 CONFERENCE TITLE: 26th international geological congress  
 CONFERENCE LOCATION: Paris, France  
 CONFERENCE DATE: July 7-17, 1980  
 SOURCE: Int. Geol. Congr. Abstr.--Congr. Geol. Int., Resumes no. 26; Vol.  
 1 p. 239  
 DATE: 1980  
 COUNTRY OF PUBLICATION: Varies  
 CODEN: IGABBY  
 SUBFILE: B  
 DOCUMENT TYPE: Abstract; Serial; Conference BIBLIOGRAPHIC LEVEL: Analytic  
 LANGUAGE: English  
 COORDINATES: Latitude: S040000 ; S023000; Longitude: E0403000 ; E0380000  
 MAJOR DESCRIPTORS: \*Kenya; \*sedimentary rocks; \*sedimentation  
 DESCRIPTORS: stratigraphy; Neogene; lithostratigraphy; environment;  
 lithofacies; Africa; Malindi; Galana River basin; Tertiary; Cenozoic;  
 Baratumu Formation; Marafa Formation; marl; clastic rocks; carbonate  
 rocks; limestone; conglomerate; shallow-water environment; marine  
 environment; terrestrial environment  
 SECTION HEADINGS: 12 (Stratigraphy, Historical Geology)  
 ?T 17/5/26-50

01015813 GEOREF NO.: 81-08387 BIBL. INDEX GEOLOGY NO.: 81-05753  
TITLE: Petrology and geochemistry of the alkaline intrusion, Jombo Hill,  
Kenya  
AUTHOR(S): Nyambok, I. O.  
SOURCE: Geol. Mag. vol. 117 no. 4 p. 327-338  
DATE: 1980  
COUNTRY OF PUBLICATION: United Kingdom  
CODEN: GEMGA4 ISSN: 0016-7568 REFS.: 30  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: tables; plates; sketch maps  
LANGUAGE: English  
COORDINATES: Latitude: S043000 ; N043000 ; Longitude: E0420000 ; E0340000  
Latitude: S050000 ; S030000; Longitude: E0400000 ; E0360000  
MAJOR DESCRIPTORS: \*Kenya; \*igneous rocks; \*absolute age; \*intrusions  
DESCRIPTORS: petrology; composition; alkalic composition; dates; chemical  
composition; Africa; Jombo Hill; carbonatite; lamprophyre and carbonatite  
family  
SECTION HEADINGS: 05 (Petrology, Igneous & Metamorphic)

01268840 GEOREF NO.: 83-30931 BIBL. INDEX GEOLOGY NO.: 83-31968  
MONOGRAPH TITLE: Geology of the Taita Hills, Degree Sheet 60 SE (Sheet  
189/4)  
AUTHOR(S): Horkel, A.; Niedermayr, G.; Wachira, J. K.; Pohl, W.; Okelo,  
R. E. A.; Nauta, W. J.  
CORPORATE SOURCE: Austromineral, Vienna, Austria; Mines and Geol. Dep.,  
Kenya, Naturhist. Mus., Austria, Min. Univ. Leoben, Austria  
SOURCE: Kenya, Geol. Surv., Rep. vol. 102  
DATE: 1979 33 p.  
COUNTRY OF PUBLICATION: Kenya  
CODEN: KCMGAY  
SUBFILE: B  
DOCUMENT TYPE: Serial; Map BIBLIOGRAPHIC LEVEL: Monographic  
ILLUSTRATIONS: illus.; 3 tables; 3 plates; sketch maps  
MAP TYPE: colored geol. map MAP SCALE: 1:50,000  
LANGUAGE: English SUMMARY LANGUAGE: German  
COORDINATES: Latitude: S033000 ; S031500; Longitude: E0383000 ; E0381500  
MAJOR DESCRIPTORS: \*Kenya  
DESCRIPTORS: areal geology; maps; East Africa; Africa; Taita Hills;  
basement; Mozambique Belt; tectonics; mineral resources; ground water  
SECTION HEADINGS: 13 (Areal Geology, General)

01036642 GEOREF NO.: 81-29717 BIBL. INDEX GEOLOGY NO.: 81-24955  
TITLE: Vanadian and vanadium grossulars from the Mozambique metamorphic  
rocks, Mgama Ridge, Kenya  
AUTHOR(S): Sawa, K.; Suzuki, K.; Miyakawa, K.; Agata, T.  
SOURCE: Preliminary Report of African Studies, Nagoya University no. 4  
p. 87-95  
DATE: 1979  
COUNTRY OF PUBLICATION: Japan  
REFS.: 12  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; table; plates; sketch maps  
LANGUAGE: English  
COORDINATES: Latitude: S033900 ; S033200; Longitude: E0381900 ; E0381500  
MAJOR DESCRIPTORS: \*Kenya; \*minerals  
DESCRIPTORS: petrology; metamorphic rocks; economic geology; garnet  
deposits; orthosilicates; garnet group; vanadium garnet; Africa; Mombasa;  
vanadium; garnet; silicates; Mgama Ridge; Tanzania; Lualenyi Mine; gneiss  
; gneisses; chemical composition; mineral assemblages; evaporites;  
chemically precipitated rocks; lakes; sedimentation; environment;  
geochemistry; metamorphism; Precambrian; grossular; crystallography  
SECTION HEADINGS: 05 (Petrology, Igneous & Metamorphic)



01036641 GEOF NO.: 81-29716 BIBL. INDEX GEOLOGY NO.: 81-25475  
TITLE: Some interesting corals from the Middle Jurassic Kambe Limestone  
in Mombasa-Kwale area, Kenya; Part 1, A new coral species, *Thamnasteria*  
(*Thamnasteria*) *mombasensis* found from the Kambe Limestone at southwest of  
Tsulujimba  
AUTHOR(S): Yamagiwa, N.  
SOURCE: Preliminary Report of African Studies, Nagoya University no. 4  
p. 83-85  
DATE: 1979  
COUNTRY OF PUBLICATION: Japan  
REFS.: 5  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: plates; sketch map  
LANGUAGE: English  
COORDINATES: Latitude: S060000 ; S030000; Longitude: E0400000 ; E0390000  
MAJOR DESCRIPTORS: \*Coelenterata; \*Kenya  
DESCRIPTORS: Scleractinia; Jurassic; paleontology; Africa; Mombasa; Kwale;  
Kambe Limestone; Mesozoic; Middle Jurassic; new taxa; taxonomy;  
*Thamnasteria mombasensis*; Tsulujimba; Anthozoa; Astrocoeniina;  
Thamnasteriidae  
SECTION HEADINGS: 10 (Paleontology, Invertebrate)

01036640 GEOF NO.: 81-29715 BIBL. INDEX GEOLOGY NO.: 81-25070  
TITLE: Grain fabric of the fluvio-lacustrine sandstone (Duruma  
Sandstones) near Mombasa, Kenya  
AUTHOR(S): Saka, Y.; Rikita, M.; Miyata, T.  
SOURCE: Preliminary Report of African Studies, Nagoya University no. 4  
p. 73-82  
DATE: 1979  
COUNTRY OF PUBLICATION: Japan  
REFS.: 6  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; table; geol. sketch maps  
LANGUAGE: English  
COORDINATES: Latitude: S060000 ; S033000; Longitude: E0394000 ; E0393000  
MAJOR DESCRIPTORS: \*Kenya; \*sedimentary rocks; \*sedimentation  
DESCRIPTORS: sedimentary petrology; textures; fabric; provenance;  
paleocurrents; Africa; Mombasa; lakes; streams; Duruma Sandstone;  
environment; sedimentary structures; cross-laminations; planar bedding  
structures; Maji-Ya-Chumui Beds; Karroo System; orientation; Taru Grit;  
Mariakani Sandstone; paleogeography; Permian; Paleozoic; Triassic;  
Mesozoic; Phanerozoic; boundary  
SECTION HEADINGS: 06 (Petrology, Sedimentary)

01036639 GEOF NO.: 81-29714 BIBL. INDEX GEOLOGY NO.: 81-25058  
TITLE: Deformed cross-lamination in the Karroo System, near Mombasa,  
Kenya  
AUTHOR(S): Miyata, T.; Saka, Y.  
SOURCE: Preliminary Report of African Studies, Nagoya University no. 4  
p. 63-72  
DATE: 1979  
COUNTRY OF PUBLICATION: Japan  
REFS.: 24  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; strat. col.; table; plates  
LANGUAGE: English  
COORDINATES: Latitude: S040000 ; S033000; Longitude: E0394000 ; E0393000  
MAJOR DESCRIPTORS: \*sedimentary structures; \*Kenya; \*sedimentation  
DESCRIPTORS: planar bedding structures; cross-laminations; sedimentary  
petrology; provenance; paleocurrents; Africa; Mombasa; Karroo System;  
folds; deformation; Mariakani Sandstone; streams; Permian; Paleozoic;  
Triassic; Mesozoic; boundary; Phanerozoic; paleogeography; Duruma  
Sandstone; tectonics; structure; stratigraphy; lithostratigraphy  
SECTION HEADINGS: 06 (Petrology, Sedimentary)

01036638 GEOREF NO.: 81-29713 BIBL. INDEX GEOLOGY NO.: 81-25069  
TITLE: Directional structures and paleocurrent of the Duruma Sandstones  
(Karoo System) near Mombasa, Kenya  
AUTHOR(S): Saka, Y.; Miyata, T.  
SOURCE: Preliminary Report of African Studies, Nagoya University no. 4  
p. 41-62  
DATE: 1979  
COUNTRY OF PUBLICATION: Japan  
REFS.: 19  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; strat. col.; sect.; plates; geol. sketch maps  
LANGUAGE: English  
COORDINATES: Latitude: S050000 ; S033000; Longitude: E0400000 ; E0390000  
MAJOR DESCRIPTORS: \*Kenya; \*sedimentation; \*paleogeography  
DESCRIPTORS: sedimentary petrology; environment; fluvial environment;  
Mesozoic; provenance; paleocurrents; Africa; Mombasa; Karroo System;  
Duruma Sandstone; structure; Permian; Paleozoic; Triassic; boundary;  
sedimentary structures; cross-laminations; planar bedding structures;  
bedding-plane structures; deposition; stratigraphy; lithostratigraphy;  
tectonics; clastic rocks; lakes; Phanerozoic; subsidence; deltas;  
structural analysis; grain size; Mariakani Sandstone; Mazeras Sandstone  
SECTION HEADINGS: 06 (Petrology, Sedimentary)

00975616 GEOREF NO.: 80-22527 BIBL. INDEX GEOLOGY NO.: 80-21038  
TITLE: Flow regime of the Mzima Springs in Kenya  
AUTHOR(S): Ertuna, C.  
SOURCE: Inst. Civ. Eng. (Lond.), Proc. vol. 67 Part 2 no. Research and  
theory p. 833-840  
DATE: 1979  
COUNTRY OF PUBLICATION: United Kingdom  
CODEN: PCIEAT ISSN: 0307-8361 REFS.: 6  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; tables; sketch maps  
LANGUAGE: English  
COORDINATES: Latitude: S033000 ; S020000; Longitude: E0390000 ; E0370000  
MAJOR DESCRIPTORS: \*Kenya  
DESCRIPTORS: economic geology; water resources; hydrogeology; springs;  
Africa; Mzima Springs; Mombasa; hydrology; discharge; resources; rainfall  
; runoff; statistical analysis  
SECTION HEADINGS: 21 (Hydrogeology & Hydrology)

00937999 GEOREF NO.: 79-25520 BIBL. INDEX GEOLOGY NO.: 79-24334  
TITLE: Genesis, occurrence, and causes of sediment distribution in inner  
reefs of Mombasa, Kenya  
AUTHOR(S): Pereira, C. P. G.  
CONFERENCE TITLE: AAPG-SEPM annual meeting  
CONFERENCE LOCATION: Houston, Tex., United States  
CONFERENCE DATE: April 1-4, 1979  
SOURCE: Am. Assoc. Pet. Geol., Bull. vol. 63 no. 3 p. 508-509  
DATE: 1979  
COUNTRY OF PUBLICATION: United States  
CODEN: AAPGBS ISSN: 0149-1423  
SUBFILE: B  
DOCUMENT TYPE: Abstract; Serial; Conference BIBLIOGRAPHIC LEVEL: Analytic  
LANGUAGE: English  
COORDINATES: Latitude: S050000 ; S030000; Longitude: E0400000 ; E0390000  
MAJOR DESCRIPTORS: \*Kenya; \*Indian Ocean; \*sedimentation; \*sediments  
DESCRIPTORS: oceanography; reefs; environment; distribution; Africa;  
Mombasa; West Indian Ocean; genesis; carbonate sediments; terrigenous  
materials; fringing reefs; textures; size distribution; statistical  
analysis; sorting; provenance  
SECTION HEADINGS: 07 (Marine Geology & Oceanography)

00936395 GEOREF NO.: 79-23912 BIBL. INDEX GEOLOGY NO.: 79-25851  
TITLE: Distribution and factors controlling foraminiferal associations  
and assemblages on fringing reefs during winter, Mombasa, Kenya  
AUTHOR(S): Banner, F. T.; Pereira, C. P. G.  
CONFERENCE TITLE: AAPG-SEPM annual meeting  
CONFERENCE LOCATION: Houston, Tex., United States  
CONFERENCE DATE: April 1-4, 1979  
SOURCE: Am. Assoc. Pet. Geol., Bull. vol. 63 no. 3 p. 414  
DATE: 1979  
COUNTRY OF PUBLICATION: United States  
CODEN: AAPGBS ISSN: 0149-1423  
SUBFILE: B  
DOCUMENT TYPE: Abstract; Serial; Conference BIBLIOGRAPHIC LEVEL: Analytic  
LANGUAGE: English  
COORDINATES: Latitude: S043000 ; S023000; Longitude: E0403000 ; E0383000  
MAJOR DESCRIPTORS: \*Indian Ocean; \*ecology; \*foraminifera; \*Kenya  
DESCRIPTORS: oceanography; reefs; paleontology; Africa; Mombasa; West  
Indian Ocean; paleoecology; fringing reefs; lagoons; marine environment;  
thanatocenoses; biocenoses; diversity; cluster analysis; statistical  
methods; assemblages; Holocene; Quaternary; modern  
SECTION HEADINGS: 24 (Surficial Geology, Quaternary Geology)

01355982 GEOREF NO.: 84-56881 BIBL. INDEX GEOLOGY NO.: 84-49746  
MONOGRAPH TITLE: Petrology and geochemistry of the alkaline intrusion,  
Jombo Hill, Kenya  
AUTHOR(S): Nyambok, I. O.  
CORPORATE SOURCE: Univ. Uppsala, Dep. Mineral. and Petrol., Uppsala,  
Sweden  
SOURCE: UUDMP Research Report vol. 8  
DATE: 1978 14 p.  
COUNTRY OF PUBLICATION: Sweden  
ISSN: 0348-1336 REFS.: 38  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Monographic  
ILLUSTRATIONS: illus.; 4 tables; 2 plates; geol. sketch map  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya; \*intrusions; \*sodium; \*rubidium; \*potassium;  
\*igneous rocks  
DESCRIPTORS: petrology; geochemistry; composition; alkalic composition;  
East Africa; Africa; Jombo Hill Intrusion; solid solution; carbonatites;  
Mrima Intrusion; ijolite; alkali gabbros; gabbros; magmas; feldspar group  
; framework silicates; silicates; syenites; metasomatism; K/Rb; nepheline  
syenite; Mombasa  
SECTION HEADINGS: 06 (Petrology, Igneous & Metamorphic); 02  
(Geochemistry)

01355981 GEOREF NO.: 84-56880 BIBL. INDEX GEOLOGY NO.: 84-49747  
MONOGRAPH TITLE: Microprobe and X-ray diffraction analyses of the major  
minerals from Jombo Hill alkaline rocks, Kenya  
AUTHOR(S): Nyambok, I. O.; Lindqvist, B.  
CORPORATE SOURCE: Univ. Uppsala, Dep. Mineral. and Petrol., Uppsala,  
Sweden  
SOURCE: UUDMP Research Report vol. 9  
DATE: 1978 16 p.  
COUNTRY OF PUBLICATION: Sweden  
ISSN: 0348-1336 REFS.: 22  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Monographic  
ILLUSTRATIONS: illus.; 3 tables  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya; \*igneous rocks; \*intrusions  
DESCRIPTORS: geochemistry; composition; alkalic composition; East Africa;  
Africa; mineral composition; Jombo Hill Intrusion; X-ray data; electron  
probe data; petrology; genesis; feldspar group; framework silicates;  
silicates; clinopyroxene; pyroxene group; chain silicates; biotite; mica  
group; sheet silicates; ijolite; alkali gabbros; gabbros; syenites;  
nepheline; nepheline group; diopside; hedenbergite; silica;  
migrometeigite  
SECTION HEADINGS: 06 (Petrology, Igneous & Metamorphic); 02  
(Geochemistry)

01355980 GEOREF NO.: 84-56879 BIBL. INDEX GEOLOGY NO.: 84-49275  
MONOGRAPH TITLE: Distribution of trace elements and their petrogenetic  
significance in the Jombo Hill alkaline rocks, Kenya  
AUTHOR(S): Nyambok, I. O.  
CORPORATE SOURCE: Univ. Uppsala, Inst. Geol., Dep. Mineral. and Petrol.,  
Uppsala, Sweden  
SOURCE: UDMP Research Report vol. 10  
DATE: 1978 8 p.  
COUNTRY OF PUBLICATION: Sweden  
ISSN: 0348-1336 REFS.: 26  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Monographic  
ILLUSTRATIONS: illus.; 3 tables  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya; \*igneous rocks  
DESCRIPTORS: geochemistry; trace elements; composition; alkalic composition  
; East Africa; Africa; Jombo Hill intrusion; sandstone; clastic rocks;  
ijolite; alkali gabbros; gabbros; albite nepheline syenite; orthoclase  
nepheline syenite; syenites; rare earths; distribution; patterns;  
carbonatites; magmas  
SECTION HEADINGS: 02 (Geochemistry)

00954308 GEOREF NO.: 80-00884 BIBL. INDEX GEOLOGY NO.: 80-00350  
MONOGRAPH TITLE: Petrology, mineralogy and geochemistry of the alkaline  
rocks, Jombo Hill, Kenya  
AUTHOR(S): Nyambok, I. O.  
SOURCE: Acta Univ. Ups. no. 493  
DATE: 1978 14 p.  
COUNTRY OF PUBLICATION: Sweden  
CODEN: AUUSAO ISSN: 0345-0058 REFS.: 7  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Monographic  
LANGUAGE: English  
COORDINATES: Latitude: S043000 ; N043000 ; Longitude: E0420000 ; E0340000  
MAJOR DESCRIPTORS: \*Kenya; \*intrusions  
DESCRIPTORS: petrology; composition; alkalic composition; Africa; Jombo  
Hill; mineral composition; geochemistry; chemical composition; igneous  
rocks; nepheline; nepheline group; framework silicates; silicates;  
pyroxene; pyroxene group; chain silicates; titanite; orthosilicates;  
magnetite; oxides; biotite; sheet silicates; analcime; albite; feldspar  
group; ijolite; alkali gabbro family  
SECTION HEADINGS: 05 (Petrology, Igneous & Metamorphic)

00918966 GEOREF NO.: 79-06312 BIBL. INDEX GEOLOGY NO.: 79-03406  
TITLE: Schreyerite, V SUB 2 T1 SUB 3 O SUB 9 , a new mineral  
AUTHOR(S): Medenbach, O.; Schmetzer, K.  
SOURCE: Am. Mineral. vol. 63 no. 11-12 p. 1182-1186  
DATE: 1978  
COUNTRY OF PUBLICATION: United States  
CODEN: AMMIAY REFS.: 9  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; tables  
LANGUAGE: English  
COORDINATES: Latitude: S041200 ; S041200; Longitude: E0384000 ; E0384000  
MAJOR DESCRIPTORS: \*Kenya; \*minerals; \*crystal chemistry; \*crystal  
structure  
DESCRIPTORS: mineralogy; oxides; schreyerite; Africa; Kwale District;  
Lasamba Hill; Voi; new minerals; mineral data; formula; chemical  
composition; V SUB 2 T1 SUB 3 O SUB 9; (V SUB 0.93 Cr SUB 0.06 Al SUB  
0.01 ) SUB 2 T1 SUB 3 O SUB 9; occurrence; optical properties; rutile;  
exsolution; lamellae; coexisting minerals; X-ray data; electron probe  
data  
SECTION HEADINGS: 01 (Mineralogy & Crystallography)

00912471 GEOREF NO.: 78-48524 BIBL. INDEX GEOLOGY NO.: 78-40451  
TITLE: Spessartin aus den Taita Hills, Kenia  
TRANSLATED TITLE: Spessartine from the Taita Hills, Kenya  
AUTHOR(S): Medenbach, O.; Schmetzer, K.; Krupp, H.  
SOURCE: Aufschluss vol. 29 no. 9 p. 275-276  
DATE: 1978  
COUNTRY OF PUBLICATION: Germany, Federal Republic of  
CODEN: AFSLAO REFS.: 2  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: tables  
LANGUAGE: German  
COORDINATES: Latitude: S043000 ; N043000 ; Longitude: E0420000 ; E0340000  
MAJOR DESCRIPTORS: \*Kenya; \*minerals  
DESCRIPTORS: mineralogy; orthosilicates; garnet group; spessartine;  
orthosilicates, garnet group; Taita Hills; occurrence; chemical  
composition; cations  
SECTION HEADINGS: 01 (Mineralogy & Crystallography)

01036627 GEOREF NO.: 81-29700 BIBL. INDEX GEOLOGY NO.: 81-27747  
TITLE: On the Acheulean site of Mtongwe, Mombasa  
AUTHOR(S): Kato, Y.; Omi, G.; Adachi, K. (Kato, Yoshijiro)  
SOURCE: Preliminary Report of African Studies, Nagoya University vol. 3  
p. 13-17  
DATE: 1977  
COUNTRY OF PUBLICATION: Japan  
REFS.: 6  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; geol. sketch map  
LANGUAGE: English  
COORDINATES: Latitude: S040500 ; S040000; Longitude: E0394000 ; E0393000  
MAJOR DESCRIPTORS: \*Kenya; \*geomorphology  
DESCRIPTORS: stratigraphy; archaeology; Pleistocene; shore features;  
terraces; Africa; Mombasa Island; Mtongwe; Mombasa Terraces; Ganda  
Terrace; Kilifi Terrace; Malindi Terrace; Marafa Beds; Changamwe Terrace;  
Magarini Sands; Kilindini Sands; Shelly Beach Terrace; Quaternary;  
Cenozoic; Mombasa; Acheulian; Paleolithic; Songoan  
SECTION HEADINGS: 24 (Surficial Geology, Quaternary Geology)

00841885 GEOREF NO.: 77-26970 BIBL. INDEX GEOLOGY NO.: 77-25387  
TITLE: Kenyasaurus, a new eosuchian reptile from the early Triassic of  
Kenya  
AUTHOR(S): Harris, J. M.; Carroll, R. L.  
SOURCE: J. Paleontol. vol. 51 no. 1 p. 139-149  
DATE: 1977  
COUNTRY OF PUBLICATION: United States  
CODEN: JPALAZ REFS.: 11  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; plate  
LANGUAGE: English  
NOTE: K. mariakaniensis, n. g., n. sp.  
MAJOR DESCRIPTORS: \*Kenya; \*Reptilia; \*Triassic  
DESCRIPTORS: paleontology; Mombasa; Africa; lower Triassic; Lepidosauria;  
morphology; skeleton; fossilization; paleoecology; affinities; Eosuchia;  
Kenyasaurus mariakaniensis; new taxa  
SECTION HEADINGS: 11 (Paleontology, Vertebrate)

01228960 GEOREF NO.: 82-58018 BIBL. INDEX GEOLOGY NO.: 82-56399  
TITLE: Aspects of magmatic and metallogenetic processes in the coast  
province of Kenya  
AUTHOR(S): Vasiliescu, A.; Popescu, G.  
SOURCE: Revue Roumaine de Geologie, Geophysique et Geographie. Serie de  
Geologie vol. 24 p. 121-126  
DATE: 1980  
COUNTRY OF PUBLICATION: Romania  
CODEN: RRGGBH ISSN: 0556-8102  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya; \*mineral deposits; \*genesis  
DESCRIPTORS: economic geology; mineral resources; processes; igneous  
processes; East Africa; Africa; mineral deposits; genesis  
SECTION HEADINGS: 26 (Economic Geology, General & Mining)

00872459 GEOREF NO.: 78-08489 BIBL. INDEX GEOLOGY NO.: 78-08057  
TITLE: Vanadiumhaltiger gruener Kornerupin vom Kwale-District, Kenya  
TRANSLATED TITLE: Green iron-free vanadium kornerupine from the Kwale  
District, Kenya  
AUTHOR(S): Girgis, K.; Guebelin, E.; Weibel, M.  
SOURCE: Schweiz. Mineral. Petrogr. Mitt. vol. 56 no. 1 p. 65-68  
DATE: 1976  
COUNTRY OF PUBLICATION: Switzerland  
CODEN: SMPTA8 REFS.: 7  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: tables  
LANGUAGE: German SUMMARY LANGUAGE: English  
COORDINATES: Latitude: S040000 ; S003000; Longitude: E0380000 ; E0360000  
MAJOR DESCRIPTORS: \*Kenya; \*minerals  
DESCRIPTORS: mineralogy; orthosilicates; kornerupine; south; Kwale;  
iron-free composition; vanadium; chemical composition  
SECTION HEADINGS: 01 (Mineralogy & Crystallography)

00637961 GEOREF NO.: 72-23526  
TITLE: Further Evidence for the Age of the Madadoni Beds of Kenya  
AUTHOR(S): Stephenson, D. G.  
SOURCE: J. Nat. Hist. Vol. 6, No. 3, p. 339-341  
DATE: 1972  
CODEN: JNAHA9  
SUBFILE: B  
DOCUMENT TYPE: Serial  
JOURNAL ANNOUNCEMENT: 1972  
LANGUAGE: English  
NOTE: Middle Miocene-Pliocene age indicated on basis of echinoid spines  
MAJOR DESCRIPTORS: \*Kenya; \*Tertiary; \*Echinodermata  
DESCRIPTORS: Stratigraphy; Madadoni Beds; biostratigraphy; Coast Province;  
Echinoidea; Prionocidaris; Stylocidaris; Africa; upper Tertiary  
SECTION HEADINGS: 12 (Stratigraphy, Historical Geology)

00867559 GEOREF NO.: 78-03587 BIBL. INDEX GEOLOGY NO.: 78-00095  
TITLE: Schreyerit (V SUB 2 T1 SUB 3 O SUB 9 ), ein neues Vanadium-Mineral  
aus Kenya  
TRANSLATED TITLE: Schreyerite (V SUB 2 T1 SUB 3 O SUB 9 ), a new vanadium  
mineral from Kenya  
AUTHOR(S): Medenbach, O.; Schmetzer, K.  
SOURCE: Naturwissenschaften vol. 63 no. 6 p. 293-294  
DATE: 1976  
COUNTRY OF PUBLICATION: Germany, Federal Republic of  
CODEN: NATWAY REFS.: 2  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
LANGUAGE: German  
NOTE: Short notes  
COORDINATES: Latitude: S043000 ; S040000; Longitude: E0394000 ; E0383000  
MAJOR DESCRIPTORS: \*Kenya; \*minerals; \*crystal structure  
DESCRIPTORS: mineralogy; oxides; schreyerite; Kwale; new minerals;  
occurrence; properties; optical properties; physical properties;  
composition; chemical composition; cell dimensions; symmetry; mineral  
data  
SECTION HEADINGS: 01 (Mineralogy & Crystallography)

01262993 GEOREF NO.: 83-25066 BIBL. INDEX GEOLOGY NO.: 83-26942  
TITLE: Bajocian ammonoid fauna of Tethyan affinities from the Kambe  
Limestone Series of Kenya and implication to plate tectonics  
AUTHOR(S): Westermann, G. E. G.  
CORPORATE SOURCE: McMaster Univ., Dep. Geol., Hamilton, ON, Canada  
SOURCE: Newsletters on Stratigraphy vol. 4 no. 1 p. 23-48  
DATE: 1975  
COUNTRY OF PUBLICATION: International  
CODEN: NLSGAO ISSN: 0078-0421 REFS.: 52  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: illus.; 1 table; 2 plates; strat. col.; geol. sketch  
maps  
LANGUAGE: English SUMMARY LANGUAGE: German  
COORDINATES: Latitude: S055500 ; S041000; Longitude: E0394000 ; E0395000  
MAJOR DESCRIPTORS: \*Kenya; \*mollusks  
DESCRIPTORS: stratigraphy; Jurassic; ammonoids; East Africa; Africa;  
biostratigraphy; Tethys; Kambe Limestone Series; lithostratigraphy;  
deep-sea environment; Bositra buchi facies; Bajocian; Middle Jurassic;  
Mombasa; Dathonian; Mwachi Valley  
SECTION HEADINGS: 12 (Stratigraphy, Historical Geology)

00785766 GEOREF NO.: 76-16352  
TITLE: Untersuchungen zur Morphodynamik tropisch-subtropischer Kuesten;  
II. Beobachtungen zum Problem des Saumriffs und des Aeolianits an der  
Kueste von Kenia  
TRANSLATED TITLE: Investigations of the morphodynamics of tropical and  
subtropical coasts; II, The fringing reefs and eolian deposits on the  
Kenya coast  
AUTHOR(S): Magdefrau, G.  
SOURCE: Wuerzburg. Geogr. Arb. no. 43 Dynamische Geomorphologie p. 25-35  
DATE: 1976  
CODEN: WBGAA9  
SUBFILE: B  
DOCUMENT TYPE: Serial BIBLIOGRAPHIC LEVEL: Analytic  
ILLUSTRATIONS: geol. sketch map  
LANGUAGE: German SUMMARY LANGUAGE: English; French  
MAJOR DESCRIPTORS: \*Kenya; \*geomorphology; \*reefs; \*changes of level;  
\*paleoecology  
DESCRIPTORS: shore features; southeast; coastal; Malindi; eolian features;  
evolution; Pleistocene; Africa; Coelenterata; corals; fringing reefs;  
distribution; indicators; climate; tropical  
SECTION HEADINGS: 23 (Surficial Geology, Geomorphology)

00737793 GEORREF NO.: 75-07551  
TITLE: Das Mineral Kornerupin unter besonderer Beruecksichtigung eines neuen Vorkommens im Kwale Distrikt, Kenya  
TRANSLATED TITLE: The mineral kornerupine, with particular consideration of a new occurrence from the Kwale District, Kenya  
AUTHOR(S): Schmetzer, K.; Medenbach, O.; Krupp, H.  
SOURCE: Dtsch. Gemmol. Ges., Z. Vol. 23, No. 4, p. 258-278 (incl. Engl. sum.), illus. (incl. sketch map)  
DATE: 1974  
CODEN: ZDGGB7  
SUBFILE: B  
DOCUMENT TYPE: Serial  
JOURNAL ANNOUNCEMENT: 1975  
LANGUAGE: German  
MAJOR DESCRIPTORS: \*Minerals; \*Kenya  
DESCRIPTORS: Orthosilicates; Kornerupine; occurrence; paragenesis; quality; optical properties; crystal structure; physical properties; gems; color; spectroscopy; Africa; Mineralogy; Kwale  
SECTION HEADINGS: 13 (Areal Geology, General)

00736897 GEORREF NO.: 75-06636  
TITLE: Chrom-Diopsid aus Kenya  
TRANSLATED TITLE: Chrome-diopside from Kenya  
AUTHOR(S): Schmetzer, K.; Medenbach, O.  
SOURCE: Dtsch. Gemmol. Ges., Z. Vol. 23, No. 3, p. 178-179, illus.  
DATE: 1974  
CODEN: ZDGGB7  
SUBFILE: B  
DOCUMENT TYPE: Serial  
JOURNAL ANNOUNCEMENT: 1975  
LANGUAGE: German  
MAJOR DESCRIPTORS: \*Minerals; \*Kenya  
DESCRIPTORS: Chain silicates; pyroxene group; Diopside; chrome-diopside; spectroscopy; absorption; gems; Africa; Mineralogy; Kwale  
SECTION HEADINGS: 13 (Areal Geology, General)

00553543 GEORREF NO.: 70-21068  
TITLE: Le quaternaire du littoral kenyan entre Mombasa et Malindi  
TRANSLATED TITLE: Quaternary of the Kenyan coast between Mombasa and Malindi  
AUTHOR(S): Battistini, Rene.  
SOURCE: Ass. Fr. Etude Quaternaire, Bull. Vol. 6, No. 3 (20), p. 229-238 (incl. Engl. sum.), illus. (incl. geol. sketch map)  
DATE: 1969  
SUBFILE: B  
DOCUMENT TYPE: Serial  
JOURNAL ANNOUNCEMENT: 1970  
LANGUAGE: French  
NOTE: Pleistocene, two marine transgressions, Tatsimian barrier reef, Karimbolian fringing reefs, dunes, and benches, pre-Karimbolian uplift  
MAJOR DESCRIPTORS: \*Kenya; \*Quaternary; \*Shorelines  
DESCRIPTORS: Stratigraphy; coast; Mombasa; Malindi  
SECTION HEADINGS: 12 (Stratigraphy, Historical Geology)  
?T 17/5/51-66



00555679 GEOREF NO.: 70-23204  
TITLE: Some Miocene Cidaridae (Echinoidea) from Kenya  
AUTHOR(S): Stephenson, D. G.  
SOURCE: J. Natur. Hist. Vol. 2, No. 4, p. 553-568, illus.  
DATE: 1968  
SUBFILE: B  
DOCUMENT TYPE: Serial  
JOURNAL ANNOUNCEMENT: 1970  
LANGUAGE: Unspecified (U)  
NOTE: Systematic descriptions, *Prionocidaris praeverticillata* n. sp., *P. malindiensis* n. sp., *Phyllacanthus opiparus*, *P. aff. dubius*, Kilifi district  
MAJOR DESCRIPTORS: \*Kenya; \*Echinoidea; \*Tertiary  
DESCRIPTORS: Paleontology; Miocene; Kilifi; Cidaridae; *Prionocidaris malindiensis*; new species; *Phyllacanthus dubius*; *Prionocidaris praeverticillata*; *Phyllacanthus opiparus*  
SECTION HEADINGS: 10 (Paleontology, Invertebrate)

00547320 GEOREF NO.: 70-14841  
TITLE: Manganese occurrences in the vicinity of Kiwara, coast province, Kenya  
AUTHOR(S): Mason, J. E.  
SOURCE: Kenya, Mines Geol. Dep., Inform. Circ. No. 5, 15 p., illus. (incl. sketch maps)  
DATE: 1968  
SUBFILE: B  
DOCUMENT TYPE: Serial  
JOURNAL ANNOUNCEMENT: 1970  
LANGUAGE: English  
NOTE: Low-grade deposits, reserves, upper Karroo system  
MAJOR DESCRIPTORS: \*Kenya; \*Manganese; \*Mineral deposits; \*genesis  
DESCRIPTORS: Economic geology; Kiwara; reserves; Paleozoic; Karroo formation  
SECTION HEADINGS: 26 (Economic Geology, General & Mining)

00408443 GEOREF NO.: 65-04735-E  
TITLE: Fossil burrows on the coast of Kenya  
AUTHOR(S): Stephenson, D. G.  
SOURCE: Nature v. 207, no. 4999, p. 850-851, illus.  
DATE: 1965  
SUBFILE: E  
JOURNAL ANNOUNCEMENT: 1965  
LANGUAGE: English  
ABSTRACT: Burrows exposed as grooves on weathered vertical faces of limestone resembling Pleistocene coquinas described in a report on the geology of the Malindi area, Kenya are similar to the deep burrows dug during neap tides on present-day beaches of the area by the ghost crab *Ocyropsis kuhli*, lending support to the proposed origin of the coquinas as offshore bars on which dunes developed.  
MAJOR DESCRIPTORS: \*Kenya; \*Paleontology; \*Tracks and trails  
DESCRIPTORS: Burrows; Malindi area; Pleistocene; Quaternary; Pleistocene burrows

00381726 GEOREF NO.: 63-05444-E  
TITLE: Geology of the Hadu-Fundi Isa area, north of Malindi; degree sheets 61, S.E. quarter and 62, S. W. quarter  
AUTHOR(S): Williams, L. A. J.  
SOURCE: Kenya, Geol. Surv., Rept. no. 52, 62 pp., illus. (incl. col. g. maps 1:125,000)  
DATE: 1962  
SUBFILE: E  
JOURNAL ANNOUNCEMENT: 1963  
LANGUAGE: English  
ABSTRACT: "With the exception of two small occurrences of basic igneous rocks, the geological succession embraces only poorly exposed sediments, which range in age from Triassic to Recent. The oldest beds, comprising continental and lacustrine deposits, are correlated with middle and upper members of the Duruma formation of the southern part of the coast, while later formations include marine upper Jurassic rocks, richly fossiliferous lower Miocene littoral deposits and a variety of Quaternary sediments."  
MAJOR DESCRIPTORS: \*Geologic maps; \*Kenya; \*Jurassic; \*Mineral resources (general); \*Quaternary; \*Tertiary; \*Triassic; \*Water supply  
DESCRIPTORS: Hadu-Fundi Isa area; Areal geology

00377685 GEOREF NO.: 63-01403-E  
TITLE: Geology and asbestos deposits of the Taita hills, Kenya  
AUTHOR(S): Farquhar, Oswald Cornell  
SOURCE: Kenya, Geol. Surv., Mem. no. 2, 110 pp., illus. (incl. col. g. map)  
DATE: 1960  
SUBFILE: E  
JOURNAL ANNOUNCEMENT: 1963  
LANGUAGE: English  
ABSTRACT: Four lithologic units are represented in the Taita hills--Archean basement rocks; an intrusive ultramafic suite consisting of subconcordant sills and sheets whose centers have been altered to serpentinites and the margins to zoned magnesian schists; younger pegmatites; and minor Quaternary deposits. Origin of the asbestos associated with the serpentinites is attributed to local stress conditions during transformation of peridotite into serpentinite. A description of the Makinyambu asbestos mine, by L. D. Sanders, is appended.  
MAJOR DESCRIPTORS: \*Asbestos; \*Kenya; \*Geologic maps; \*Metamorphic rocks; \*Mineral deposits; \*origin; \*Petrogenesis; \*Precambrian  
DESCRIPTORS: Taita hills; Makinyambu asbestos mine area; Areal geology; Economic geology

00368969 GEOREF NO.: 62-05853-E  
TITLE: Geology of the area south of the Taita hills; degree sheet 66, S.W. quarter and parts of degree sheet 65, N.W. quarter and degree sheet 68, N.W. quarter  
AUTHOR(S): Walsh, J.  
SOURCE: Kenya, Geol. Surv., Rept. no. 49, 26 pp., illus. (incl. col. g. map 1:125,000)  
DATE: 1960  
SUBFILE: K  
JOURNAL ANNOUNCEMENT: 1962  
LANGUAGE: English  
ABSTRACT: For the most part the area south of the Taita hills is covered by Pleistocene and Recent deposits, mainly sandy soils and secondary surface limestones (kunkar). Mapping of outcrops in isolated hills has shown that bedrock comprises metamorphosed basement rocks, mainly paragneisses derived from psammites, widely developed crystalline limestones, and locally developed graphitic rocks. In the southeast the basement is intruded by a major metadoleritic mass. The petrography of the various basement rock types, data on the metamorphism, granitization, and structure of the basement, and the economic possibilities of the area are summarized.  
MAJOR DESCRIPTORS: \*Geologic maps; \*Kenya; \*Metamorphic rocks; \*Mineral resources (general)  
DESCRIPTORS: Taita hills area; south; Areal geology

00344114 GEOREF NO.: 60-05011-E

TITLE: A study of the movement of groundwater in lava-covered country

AUTHOR(S): Temperley, Bernard Nicholas

SOURCE: Overseas Geol. & Min. Res. v. 8, no. 1, p. 37-52, illus. (incl. g. sk. maps)

DATE: 1960

SUBFILE: E

JOURNAL ANNOUNCEMENT: 1960

LANGUAGE: English

ABSTRACT: 'The main features are described of the Chyulu composite and multiple basaltic volcano that lies in south-eastern Kenya, 40 miles north-east of Kilimanjaro, and deductions are drawn regarding the form and size of the groundwater reservoir within the volcano from which Mombasa is now supplied via the Mzima springs. The almost complete canalisation of the overflow of this groundwater reservoir into the Mzima locality is attributed to the configuration of the land surface buried beneath the volcanic rocks. The absence of seasonal variation in the discharge of Mzima springs is believed to be due mainly to the restraining action of intersecting dykes within the cone belt. Relationships observed between rainfall records and long-term variations in the discharge of small springs at the north-eastern fringe of the lava field are discussed, variations being attributed to crustal tilting rather than to climatic change.'

MAJOR DESCRIPTORS: \*Ground water; \*Kenya

DESCRIPTORS: Mombasa area; lava terrain; Water; ground and surface

00339958 GEOREF NO.: 60-00855-E

TITLE: The Mrima Hill carbonatite, Coast province, Kenya (with discussion)

AUTHOR(S): Coetzee, G. L.; Edwards, C. B.

SOURCE: Geol. Soc. S. Africa, Tr. v. 62, p. 373-397, illus. (incl. g. map 1:12,000)

DATE: 1959

SUBFILE: E

JOURNAL ANNOUNCEMENT: 1960

LANGUAGE: English

ABSTRACT: 'Mrima hill represents the carbonatite facies of a post-Karoo alkaline province on the Kenya coast. Four different types of carbonatite which occur at Mrima are described and some partial analyses of these rocks are given. The geology and mineralogy of a large body of ilmonitic and kaolinitic rocks is described. These rocks are believed to be weathered derivatives of carbonatites, non-calcareous igneous rocks and fenitized sediments. One chemical analysis and some physical data are quoted for gorceisxite, a phosphate mineral prominent in the weathered rocks. . . . Niobium-rich weathered rocks are considered to present a special example of the formation of a mineral occurrence by residual concentration through chemical weathering.'

MAJOR DESCRIPTORS: \*Geologic maps; \*Kenya; \*Petrology (general); \*Rock descriptions

DESCRIPTORS: Mrima hill area; Petrology; Carbonatite; Mrima hill; Carbonatites

00293543 GEOREF NO.: 58-01547-E

TITLE: Silica bands and serpentinite in the Taita hills, Kenya (abs.)

AUTHOR(S): Farquhar, Oswald Cornell

SOURCE: Geol. Soc. Am., B. v. 69, no. 12, pt. 2, p. 1562-1563

DATE: 1958

SUBFILE: E

DOCUMENT TYPE: Abstract

JOURNAL ANNOUNCEMENT: 1958

LANGUAGE: English

MAJOR DESCRIPTORS: \*Kenya; \*Metamorphic rocks; \*Silicification

DESCRIPTORS: Silica bands-serpentinite; Taita hills; silica bands-serpentinites

00291367 GEOREF NO.: 57-05333-E  
TITLE: Geology of the Malindi area; explanation of degree sheets 66 N.E. quarter and 67 N.W. quarter  
AUTHOR(S): Thompson, A. O.  
SOURCE: Kenya, Geol. Surv., Rept. no. 36, 63 pp., illus. (incl. col. g. map 1:125,000)  
DATE: 1956

SUBFILE: E  
JOURNAL ANNOUNCEMENT: 1957  
LANGUAGE: English

ABSTRACT: The Malindi area, southeastern Kenya, consists topographically of a coastal plain bounded on the west by a plateau region that grades into a discontinuous range of hills. The principal rocks are Triassic sandstones and siltstones, Jurassic shales and limestones, and Miocene to Recent sands and clays. Igneous dikes of probable upper Miocene or lower Pliocene age have been identified as basanite and olivine nephelinite. The lead ore of the Vitengeni mine (now shut down) is a hypogene deposit of hydrothermal origin in the Triassic sediments. Other possible economic materials are cinnabar, gypsum, black sands, and building stone. Stratigraphic data are given in detail, and the structure and geologic history of the area are discussed.

MAJOR DESCRIPTORS: \*Geologic maps; \*Kenya; \*Jurassic; \*Lead; \*Mineral resources (general); \*Quaternary; \*Tertiary; \*Triassic  
DESCRIPTORS: Malindi area; Areas described

00290232 GEOREF NO.: 57-04198-E  
TITLE: Manganese deposits in Kenya  
AUTHOR(S): Pulfrey, William  
SOURCE: Int. Geol. Cong., 20th, Manganese, Symp. t. 2, p. 197-203, sk. map  
DATE: 1956

SUBFILE: E  
JOURNAL ANNOUNCEMENT: 1957  
LANGUAGE: Unspecified (U)

ABSTRACT: Only three manganese deposits of possible economic interest have been discovered in Kenya. The ore of the Gilgil deposit consists of pyrolusite with some psilomelane and possibly some manganite, impregnating Pleistocene diatomite; its origin may be due to the activity of hot springs. In the Chonyi district west of Kilifi, the ore caps Kiwara hill and a smaller hill to the southeast, and is considered to be residual. At Mrima hill, the ore occurs as residual boulders in ferruginous and aluminous earth, and overlies rocks containing niobium minerals and monazite.

MAJOR DESCRIPTORS: \*Kenya; \*Manganese; \*Mineral deposits; \*origin  
DESCRIPTORS: Economic geology

00280219 GEOREF NO.: 56-01024-E  
TITLE: Geology of the Kilifi-Mazeras area, degree sheet 66, S. E. quarter  
AUTHOR(S): Caswell, P. V.  
SOURCE: Kenya, Geol. Surv., Rept. no. 34, 54 pp., illus. (incl. col. g. map 1:125,000)  
DATE: 1956

SUBFILE: E  
JOURNAL ANNOUNCEMENT: 1956  
LANGUAGE: English

ABSTRACT: The Kilifi Mazeras area, Kenya, is composed essentially of a thick sequence of Triassic Duruma sandstones in the west, Tertiary and younger deposits in the east, and an intervening plateau of Jurassic shales and limestones. Deposition of most of the sediments is considered to have taken place along the margin of a relatively stable trough, under conditions which were not suitable for the development of coal beds. Three periods of faulting are postulated. Evidence for mid-Pliocene faulting is fairly conclusive, but is less so for the earlier periods. The known mineralization of the coastal zone (manganese, lead, zinc) is apparently related to the older faulting and by its distribution indicates two phases of dislocation.

MAJOR DESCRIPTORS: \*Faulting; \*Kenya; \*Geologic maps; \*Jurassic; \*Mineral resources (general); \*Quaternary; \*Tertiary; \*Triassic; \*Water supply  
DESCRIPTORS: Kilifi-Mazeras area; Areas described

00279599 GEOREF NO.: 56-00404-E  
TITLE: Geology of the Taveta area  
AUTHOR(S): Bear, L. M.  
SOURCE: Kenya, Geol. Surv., Rept. no. 32, 48 pp., illus. (incl. col. g. map 1:125,000)  
DATE: 1955  
SUBFILE: E  
JOURNAL ANNOUNCEMENT: 1956  
LANGUAGE: English  
ABSTRACT: The rocks of the Taveta area, Taita district, southeastern Kenya, consist of basement gneisses, with intermediate and basic intrusions, Tertiary lavas, comprising olivine basalts and olivine soda-trachytes, and Pleistocene and Recent calcareous tuffaceous grits. Petrography, granitization, and metamorphism are discussed. Kyanite is mined in the area, at Murka, and a new kyanite locality south of Longalanga, also containing sillimanite and garnet, was discovered during mapping.  
MAJOR DESCRIPTORS: \*Geologic maps; \*Kenya; \*Igneous rocks; \*Metamorphic rocks; \*Mineral resources (general); \*Tertiary  
DESCRIPTORS: Taveta area; Taita district; Areas described

00262295 GEOREF NO.: 53-00812-E  
TITLE: Geology of the Mombasa-Kwale area, degree sheet 69  
AUTHOR(S): Caswell, P. V.  
SOURCE: Kenya, Geol. Surv., Rept. no. 24, 69 pp., illus. (incl. col. g. map 1:25,000, under separate cover)  
DATE: 1953  
SUBFILE: E  
JOURNAL ANNOUNCEMENT: 1953  
LANGUAGE: English  
ABSTRACT: A report on the results of geologic reconnaissance in the Mombasa-Kwale area, Kenya; a chapter on the petrology of the Jombo hill complex, by B. H. Baker, is included. The area is composed of Permo-Carboniferous to Recent sedimentary formations and an alkaline intrusion (Jombo hill). Minerals of economic importance occur at several localities. It is possible that lead-zinc-barite lodes are present at depth below the manganese laterite capping one of the satellite masses of the Jombo hill complex. The prospect of locating workable coal seams in Karroo rocks is considered unlikely. Upper Duruma (Permo-Triassic) sandstones are the most promising source of additional water supply.  
MAJOR DESCRIPTORS: \*Geologic maps; \*Kenya; \*Intrusions; \*Mineral resources (general); \*Rock descriptions; \*Water supply  
DESCRIPTORS: Mombasa-Kwale area; Jombo hill; Areas described; Alkaline rocks; Jombo hill complex

00264634 GEOREF NO.: 53-03151-E  
TITLE: Geology of the Mariakani-Mackinnon road area, degree sheet 66, S. W. quadrant  
AUTHOR(S): Miller, J. M.  
SOURCE: Kenya, Geol. Surv., Rept. no. 20, 32 pp., illus. (incl. col. g. map 1:125,000)  
DATE: 1952  
SUBFILE: E  
JOURNAL ANNOUNCEMENT: 1953  
LANGUAGE: English  
ABSTRACT: The Mariakani-Mackinnon road area near Mombasa, Kenya, is composed of members of the Duruma sandstone series (Permo-Triassic) underlain by Precambrian gneisses and schists. The sandstone series is correlated on lithologic and paleontologic bases with the Sakamena and Isalo series of Madagascar and Karroo formations of Africa. The possible occurrence of coal is discussed, and records of borings are included.  
MAJOR DESCRIPTORS: \*Borings; \*Kenya; \*Coal; \*Correlation tables; \*Geologic maps; \*Permian; \*Precambrian; \*Triassic  
DESCRIPTORS: Mariakani-Mackinnon region; Areas described; Mariakani-Mackinnon region; Mariakani-Mackinnon region

00201870 GEOREF NO.: 39-22535-E  
TITLE: On certain aspects of the physiography of the coast ranges of  
Kenya Colony, near Mombasa  
AUTHOR(S): Busk, Henry Gould  
SOURCE: Geol. Mag. no. 900, v. 76, no. 6, p. 222-224, 1 fig., Jun  
DATE: 1939  
SUBFILE: E  
JOURNAL ANNOUNCEMENT: 1939  
LANGUAGE: English  
MAJOR DESCRIPTORS: \*Kenya Colony  
DESCRIPTORS: Physiographic geology; Coast ranges; Mombasa region

00184208 GEOREF NO.: 35-02389-E  
TITLE: Zur Kenntnis des Jura von Mombasa (British-Ostafrika)  
AUTHOR(S): Mayer-Guerr, Alfred  
SOURCE: Zentr. Miner. Abt. B no. 10, p. 387-399, 1 fig.  
DATE: 1935  
SUBFILE: E  
JOURNAL ANNOUNCEMENT: 1935  
LANGUAGE: German  
ABSTRACT: Subdivides the Jurassic deposits of Mombasa, Kenya Colony, into  
horizons and describes fossils which determine these horizons.  
MAJOR DESCRIPTORS: \*Cephalopoda; \*Kenya Colony; \*Jurassic; \*Paleontology  
DESCRIPTORS: Mombasa; Historical geology

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**TECHNICAL ARCHIVES OF MINES AND  
GEOLOGICAL DEPARTMENT, NAIROBI, KENYA**





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Number	Page	Title
1	1	Note on the probable water supply of the Likoni-Matuga areas South coast province by P.V. Caswell 1950.
2	1	The port Reitz Brickyard by P.V. Caswell 1953.
3	1	Notes on examination of Mrima manganese samples for barium and lead by William Pulfrey, 1948.
4	1	Boreholes at Kilindini by P.V. Caswell 1952.
5	1	Radioactive hazards by D. Hobden. 1954.
	10	Radiation hazards at Mrima by F.W. Biuge 1955.
6	1	Prospecting at Mrima hill and Vitengeni by William Pulfrey, 1942.
7	1	Notes on examination of Mrima manganese samples for barium and lead by William Pulfrey, 1948.
8	1	A trip to Mombasa by F.M. Clyers.
9	1	Report on an attempt to locate an alleged accurate of manganese near Kwale by William Pulfrey 1942.
10	1	Report on Radioactive specimens from Mrima by William Pulfrey, 1952.
	2	Report on a reconnaissance in the area of Mrima and Kiruku hills Kwale District, with a Gelger-Mueller counter by B.H. Baker, 1951.
11	1	Rare earths by D. Havesson 1953.
12	1	Visit to Mrima hill and hot springs by S. Dodhia 1972.
13	1	Manganese-Mrima hill, coast Province note covering Mr. Yates report by C. Standfield Hitchen 1943.
	3	Report on Mrima manganese deposit on Mrima moisture, Digo by H. Wiyates.
	4	Report on Mrima Manganese deposit on Mrima moisture, Digo by H. Wiyates.
14	1	Mrima T. Deans, 1954.
15	1	Notes on Mrima. Notes on a deposit of niobium and rare earths at Mrima, coast Province, Kenya, East

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		Africa by F. W. Binge, 1954.
16	1	Mrima hill pyrochlore deposit Anglo American prospecting (Africa) limited, (Author N.K. Kinkead Weekes)
	6	Mrima hill expenditure geological department Anglo American prospecting (African) Ltd., 1956.
17	1	Geological data on the changamwe shales by William Pulfrey.
18	1	Brief geological report on the area to the South of Port reitz.
19	1	Test drilling in sandstone and availability of Water 1960.
	3	Water samples 1960.
20	1	The extraction of niobium from the Mrima hill deposit.
21	1	The extraction of niobium from the Mrima hill deposit.
22	1	The extraction of niobium from the Mrima hill deposit.
23	1	The extraction of niobium from the Mrima hill deposit.
24	1	The extraction of niobium from the Mrima hill deposit.
25	1	The extraction of niobium from the Mrima hill deposit.
26	1	The extraction of niobium from the Mrima hill deposit.
27	1	The extraction of niobium from the Mrima hill deposit.
28	1	The extraction of niobium from the Mrima hill deposit.
29	1	The extraction of niobium from the Mrima hill diposit.

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30	1	Some new section in the cenozoic and older strata. South of Mombasa by T.P. Rainey 1973.
31	1	A visit to E.A. Dil Refinery by R.R. Kamundia 1973.
32	1	Mrima hill by W. D. Haverson 1957.
	2	Mrima hill investigation by W.D. Haverson 1957.
	3	Mineral in the Mombasa-Kwale area by William Pulfrey 1953.
33	1	Coast Province Application for Gypsum concession adjoining the report Reitz Aerodrome 1952.
34	1	Results of the Joint Exploration project in Kwale District by T.P. Rainey.
35	1	Galena/Babytes occurrence at Mwereni Kwale district Clarke, 1969.
	9	Drainage reconnaissance for base metals in Kwale Musamweni Jitendra Patel 1967.
36	1	The extraction of niobium from the Mrima hill deposit.
37	1	Summary report on the Mrima hill investigation.
38	1	Summary report on the Mrima hill investigation.
39	1	Summary report on the Mrima hill investigation.
40	1	Summary report on the Mrima hill investigation.
41	1	The Extraction of niobium from the Mrima hill deposit.
42	1	The extraction of niobium from the Mrima hill deposit.
43	1	Mrima hill niobium recovery.
44	1	Warren Spring laboratory.
45	1	Pandaite from the Mrima hill niobium deposit.
46	1	Der Jura von Mombasa by K. Futterer.
47	1	The recovery of niobium from Mrima Ore.
48	1	Über Hildebrandt's Geological sammlungen von

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		Mombasa by E. Beyrich.
49	1	Uber Jurassische Ammonitar von Mombasa by E. Beyrich.
50	1	Uber Hildebrandt's Geological sammlungen von Mombasa by E. Beyrich.
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52	1	Report on Mrima hill niobium deposit by Binge & Joubert.
53	1	Preliminary investigations on a sample of ore from the Mrima deposit by P.H. Pile.
54	1	Zur Kenntnus des Jura von Mombasa (Britsch-Ostaprika) by A. Mayer-Gurr.
55	1	Liberation of niobium, thorium and rare earth minerals in a sample of ore from the Mrima deposit by D.N. Collins.
56	1	The extraction of niobium from the Mrima hill deposit.
57	1	Mombasa-Kwas-Gazi
	2	Kinango-Mazeras-Kwale
	3	Msambweni-Gazi-Tiwi-Kwale
	4	Jombo-Kikoneni-Msambweni-Shimoni
	5	Ndavanya-Lunga-Runga-Kikoneni
	6	Mazeras-Kinango-Ndavanya
58	1	Chemical treatment of Mrima ore by W.P. Horne 1956.
59	1	Geology of the Mombasa-Kwale area by William Pulfrey.
60	1	Mrima hill niobium recovery.

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1	1	Report on the geological section exposed along the Mombasa pipe line trench East of the main load near Mazeras Reservoir by E.P. Saggerson
	3	Log of Mombasa pipe Line trench from the roadway East of Mazeras.
2	1	Vitengeni Kinangoni-Changombe-Ziani area South coast Taita area Zongolani
3	1	Note on the Kambe limestone near Mazeras by William Pulfrey 1946.
4	1	Development of Crown land, coast 1954.
5	1	The Kambe Limestone by Jone Osborne.
6	1	Notes relating to the coastal mineral deposit Caswell, 1952.
7	1	Notes related to the coastal mineral deposits P.V. Caswell, 1952.
8	1	Borehole No.MZ.1 coast province by M.J. Mloszewski 1967.
	8	Mazeras area. Coast province zinc-lead mineralization by M.J.Mloszewski 1966.
	13	Mazeras area coast province interim report on prospecting by M.J. Mloszewski 1967.
	16	Borehole investigation data, Mazeras area 1967.
	17	Borehole No.MZ.6 Mazeras area by M.J.Mloswski 1967.
	19	Borehole No.MZ.3 Mazeras area by M.J.Mloswski 1967.
	24	Borehole No.NZ.2 Mazeras area by M.J.Mloswski 1967.
9	1	Mwachi river zinc. Coast Province by F.W. Binge 1955.
	3	Mwachi river zinc. Coast Province by F.W. Binge 1955.
10	1	Manganese deposite in Kenya.
	3	Manganese deposite in Kenya by William Pulfrey.
11	1	Report on the geological section exposed along the

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		pipe line trench East of the main road near Mazeras Reservoirs by E .P. Sagarson.
	3	Log of Mombasa pipe line Trench from the Roadway East of Mazeras.
12	1	Kiwara drill logs by J. Thaddee 1964.
	7	Kiwara chemical assay results by R.C. Patel 1964.
	8	Drill hole sample Nos.R. Q.1, Q.1 by J. Thaddee.
13	1	Geochemical sampling results by R.P. Randel 1964.
14	1	Geochemistry of the Chasimba-Dzitsoni area by A.S. Macdonal 1966.
15	1	Report on the geology and mineral occurrence around Chang'ombe by T.P. Rainey 1969.
16	1	Chonyi area, drilling and interpretation by Paul 1969.
	6	Chonyi geochemical results by T.P. Rainey 1970.
	9	Conclusions from Chang'ombe drilling to date by T.P. Rainey 1970
	15	Ore reserves at Chang'ombe-Chonyi by T.P. Rainey 1970.
17	1	Monthly report September 1969 progress of drilling Pangani Zn anomaly area by M.C.G. Clarke.
18	1	Logs of CH2 and Rb 10 by Martin 1968 coast province.
	2	Visit to Kinagoni, Chang'ombe and Mazeras by M.J. Mloszewski 1968.
19	1	The results of geochemical sampling and diamond drilling in the Chasimba Ziyani area of Kilifi District by T.P. Rainey 1973.
20	1	Monthly report September 1968 progress of drilling at Kinagoni hill, Chang'ombe by M.C.G. Clarke.
	6	Monthly report November 1968 progress of drilling at Kinagoni hill North, Kinagoni hill South, Chang'ombe by M.C.G. Clarke.
	15	Monthly report June-July 1968 progress report of drilling at Kinagoni hill, Chang'ombe by M.C.G. Clarke.

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19		Monthly report August 1968 progress of drilling at Kinagoni hill Chang'ombe by M.C.G. Clarke.
21	1	Geophysical investigation of Pangani lead-zinc geochemical anomaly by M.V. Bhatt 1967.
	3	Pangani zinc anomaly by A.S. Macdonald 1967.
22	1	Notes to assist sampling of Jurassic shales by F.W. Binge 1955.
23	1	Sandstone by L.F.U. Wix 1966.
	2	Limestone by L.F.U. Wix 1966.
	3	Split samples series C.H.1970.
24	1	Monthly report for July 1966 sampling of Ribe and Kinagoni lead anomaly by A.S. Macdonald 1966.
25	1	Geochemical results coast by L.D. Sanders 1966.
	3	Monthly report for August 1966 follow-up soil sampling on Kinagoni and Pangani by A.S. Macdonald.
	5	Monthly report for May/June 1966 detailed follow-up sampling of the Kinagoni hill and Ribe by A.S. Macdonald.
	7	Monthly report for March 1966 Grid soil sampling from Jibana W.S.W. Wards across Kinagoni hill by A.S. Macdonald.
	10	Jibana Ribe area by A.S. Macdonald 1965.
	12	Monthly report January 1966. Detailed mapping of the Jibana area and geochemical sampling in the Chasimba area by A.S. Macdonald.
	16	Monthly report November 1965. Grid soil sampling of the Jibana and drainage geochemical sampling of Ribe and Rabai by A.S. Macdonald.
	18	Monthly report October 1965. Grid soil sampling of Jibana hill by A.S. Macdonald.
26	1	A summary of the progress of Kinagoni Drilling by T. P. Rainey 1969.
	8	Monthly report December 1968 progress of drilling Kinagoni hill North, Kinagoni hill South, Chang'ombe by M.C.G. Clarke 1968.

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11		Monthly Report Jan. 1969 progress of drilling. Kinagoni North, Kinagoni South by M.C.G. Clarke.
18		Monthly report Feb. 1969 progress of drilling Kinagoni North, Kinagoni South by M.C.G. Clarke. Monthly reports for March Pg. 23, 1969 April Pg. 29, 1969 May Pg. 33, 1969 June Pg. 40, 1969 July Pg. 48, 1969 August Pg. 52, 1969 September/October Pg. 59, 1969 A.S. April Pg. 65, 1969 Macdonald Progress of drilling Kinagoni North, Kinagoni South by M.C.G. Clarke.
68		Kenya Mining Industries Ltd. Kinagoni by C.Y. Ochieng Owayo 1972.
69		Development of lead-zinc deposits near Ribe, coast Province by L.D. Sanders 1971.
71		Mineral exploration coast Province by Eng. A Kiss 1970.
27	1	Use of a magnetometer at Madmani.
	3	Report on geochemical drainage reconnaissance of Vitengini by J.C. Patel 1968.
28	1	The analyses of manganese ores from Kiwara, Coast Province, Kenya 1967.
29	1	Geochemical sampling by L.D. Sanders 1966.
30	1	Monthly report May 1968 pit sampling South of Chang'ombe by S. Dodhia 1968.
	3	Monthly report for December 1967 Borehole sites South East of Chang'ombe 1968.
31	1	The Chang'ombe zinc deposits by T.P. Rainey 1971.
	12	Drilling at Chang'ombe by T.P. Rainey 1970.
32	1	Geochemical Survey, Vitengeni area by P.Joubert.
33	1	Memorandum report on results of further preliminary geochemical examinations, Vitengeni area Kenya by Jhon S. Tooms 1957.



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3		Lead and zinc content of soil samples from Vitengeni area Kenya by R.E. Stanton and K. Symmonds.
6		Geochemical Survey, Vitengeni area.
12		Details of soil samples
24		Geochemical examination Vitengeni area by P. Jubert 1956.
27		Geochemical Examination, Vitengeni area by John S. Webb 1956.
28		Distribution of lead and zinc in selected soil profile samples at Vitengeni area by John S. Webb 1956.
35		Progress report collection of soil samples Vitengeni area by P. Jubert 1956.
34	1	Vitengeni lead barytes deposits by Barnard G. Canning 1950.
35	2	Vitengeni Cinnabar deposit by H.W. Yates, 1942.
	4	Vitengeni Cinnabar deposit by H.W. Yates, 1942.
	5	Vitengeni Cinnabar deposit by H.W. Yates, 1942.
	6	Report on Cinnabar deposit at Vitengeni by William Pulfrey, 1942.
36		Radiometric survey by D. Hobden, 1959.
	3	Ngomeni-Mamburui-Malindi by D. Hobden.
	4	Vitengeni-Malindi by D. Hobden.
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18	1	Temperley: Geology of Mzima Springs
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61		Bulk samples from Murka by B.N. Temperley.
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MS/17	Jibana area locality Map.

## Investigation notes

Author	Year	Title
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Dothia, S & Pandit, S.	1976	Mrima hill Inv. Note No.1976/3
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