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Autor: Hooker, Marjorie

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Data of Rock Analyses—VIII

Bibliography and Index of Rock Analyses other than Swiss in the Periodical and Serial Literature of Switzerland*)

By *Marjorie Hooker* (Washington)**)

Un beau jour, nous franchissons un dernier col à 530 mètres, et nos regards s'étendent a l'infini, . . . J'ai désormais achevé ma tâche de terrain et je me penche déjà sur le dépouillement de mon butin de notes, de photos et d'échantillons. Ce travail sera le plus beau couronnement que je puisse souhaiter à ce passionnant voyage vers le Toit du Monde. L'Université de Genève est dépositrice de mes collections et c'est de ses laboratoires de géologie et de minéralogie que rayonneront les résultats de cette mission.

AUGUSTIN LOMBARD, in Himalaya du Nepal,
Mission Scientifique Genevoise (1952).

Chemical analyses of Swiss rocks are published primarily in the scientific journals of Switzerland and of the neighboring countries Italy, Austria, and Germany. The compilation and publication of these analyses, for the years 1890—1930, 1930—1941, and 1942—1955, have made them readily available for scientific reference and work. The publications are:

NIGGLI, PAUL, FRANCIS DE QUERVAIN, and R. U. WINTERHALTER. Chemismus schweizerischer Gesteine: Beiträge zur Geologie der Schweiz, Geotechnische Serie, XIV. Lieferung, 389 p., 1930.

DE QUERVAIN, FRANCIS, and CARL FRIEDLAENDER. 1. Nachtrag zu Chemismus schweizerischer Gesteine: Beiträge zur Geologie der Schweiz, Geotechnische Serie, 20. Lieferung, 108 p., 1942.

DE QUERVAIN, FRANCIS, and VERA JENNY: 2. Nachtrag zu Chemismus schweizerischer Gesteine: Beiträge zur Geologie der Schweiz, Geotechnische Serie, 34. Lieferung, 103 p., 1956.

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*) Publication authorized by the Director, U.S. Geological Survey.

**) Address: Miss Marjorie Hooker, U.S. Geological Survey, Washington, D.C. 20242, U.S.A.

One other compilation of analyses appears in the Swiss literature. This was published by ULRICH GRUBENMANN and LAURA HEZNER in the Vierteljahrsschrift der Naturforschenden Gesellschaft in Zürich, Jahrgang 61, p. 149—203 (1916) under the title „Zusammenstellung der Resultate über die von 1900—1915 im mineralogisch-petrographischen Institut der Eidg. Techn. Hochschule ausgeführten chemischen Gesteins- und Mineralanalysen". It is probably true that this is the original place of publication of a few analyses of rocks from foreign localities, but as most are quoted from other sources no attempt has been made to separate these few. The work is thus considered a compilation rather than a source reference.

A large number of scientific papers dealing with foreign areas are found in the Swiss literature because Swiss geologists working in other countries and participating in worldwide expeditions publish the results of their work in the scientific journals of their own country. Analyses appearing in these papers usually derive from the laboratory study in Switzerland of material collected and brought back for that purpose. Others, however, are the products of work done by students of other nationalities at universities in Switzerland. Since 1914, more than 500 chemical analyses of rocks from localities in 37 countries other than Switzerland have appeared in scientific journals published in Switzerland. In order to make these analyses more readily known to the scientific community, an annotated bibliography of the references in which they are published, and two indexes, by country and by rock name, have been compiled.

Twenty-nine journals have been examined for analyses. The journals are given in an alphabetical list together with the initial year of publication of each and, if the journal has ceased publication, the final year. All the journals were examined from 1914 (or the first year of publication if later than 1914) in order to continue from the closing date of Henry S. Washington's compilation, U. S. Geological Survey Professional Paper 99, published 1917. The latest volume and number consulted is given for each journal.

The references in the bibliography are those which appear in these journals and which contain original analyses (first place of publication; not quoted from an earlier publication) of *rocks from localities outside Switzerland*. References are *not included* if they contain analyses *only* of Swiss rocks, *only* analyses known to be quoted from earlier publications, or *only* analyses known to be averages of several analyses. The large collection of papers published by Professor DUPARC, both by himself and

in collaboration with his students or his colleagues, between 1902 and 1932, contains many analyses of rocks from various countries and particularly from the Soviet Union. Many of these are not complete analyses. As far as practicable, only those that are fairly complete and published as new analyses after 1914 have been included.

In several studies undertaken in border areas, analyses of rocks occurring in Switzerland and in the bordering country have appeared in the publications and both have been included in the compilations of Swiss rock analyses. In this bibliography, only those occurring in the border countries are indexed and the references that contain them are designated by an asterisk. They are DIEHL (1938), FRIEDENREICH (1956), GRAETER (1951), MASSON (1938), STUTZ (1940), SUTER (1924), and WALTER (1950).

There are two indexes — a country index and a rock-name index. In the first, the countries are listed alphabetically and under the name of each country is a list of author names. These indicate the references, given in the bibliographic section, that contain analyses of rocks from that country. The rock-name index follows the same style as the geographic index, the names being those used by the authors. The various kinds of rocks in any one paper are to be found in the notes given with that reference in the bibliography.

The numbers in parentheses in the bibliographic annotations and in the geographic index indicate the number of analyses for a country, a locality, or a rock type.

JOURNAL LIST

Name (and span of publication)	*Latest number examined*
Annales Guébhard (1924–)	40 (1964)
Archives des Sciences (1948–)	18, no. 2 (1965)
Archives des Sciences Physiques et Naturelles (1846–1947)	29 (1947)
Eclogae Geologicae Helvetiae (1888–)	58, no. 3, (1965)
Experientia (1945–)	21, no. 9, (1965)
Institut für Geophysik, Mitteilungen (1943–)	45 (1965)
Institut National Genevois, Bulletin (1883–)	62 (1964)
Institut National Genevois, Mémoire (1853–)	24 (1935)
Naturforschende Gesellschaft in Basel, Verhandlungen (1854/57–)	75 (1964)
Naturforschende Gesellschaft in Bern, Mitteilungen (1843–)	21 (1964)
Naturforschende Gesellschaft Schaffhausen, Mitteilungen (1921–)	incomplete set
Naturforschende Gesellschaft in Zürich, Vierteljahrsschrift (1856–)	109, no. 4 (1964)

Name (and span of publication)	*Latest number examined*
Naturwissenschaftliche Gesellschaft in Winterthur, Mitteilungen (1897–)	31 (1961–63; pub. 1964)
St. Gallische Naturwissenschaftliche Gesellschaft, Bericht über die Tätigkeit (1858/60–)	78 (1961–62; pub. 1964)
Schweizerische Mineralogische und Petrographische Mitteilungen (1920–)	45, no. 2 (1965)
Schweizerische Naturforschende Gesellschaft, Denkschriften (1829/33–)	84, no. 2 (1963)
Schweizerische Naturforschende Gesellschaft, Verhandlungen (1817–)	143 (1963)
Société Fribourgeoise des Sciences Naturelles, Bulletin (1879–)	53 (1963; pub. 1964)
Société Fribourgeoise des Sciences Naturelles, Géologie and Géographie, Mémoire (1900–1947)	13 (1947)
Société Neuchâteloise des Sciences Naturelles, Bulletin (1843–)	87 (1964)
Société Neuchâteloise des Sciences Naturelles, Mémoire (1835–)	9, no. 1 (1958)
Société de Physique et d'Histoire Naturelle de Genève, Compte Rendu (1885–1947)	64 (1947)
Société de Physique et d'Histoire Naturelle de Genève, Mémoire (1821–)	42, no. 4 (1961)
Société Vaudoise des Sciences Naturelles, Bulletin (1842–)	68, no. 11 (1964)
Société Vaudoise des Sciences Naturelles, Mémoire (1922–)	14, no. 2 (1965)
Stiftung „Vulkaninstitut Immanuel Friedlaender", Publikationen (1940–)	8 (1961)
Thurgauische Naturforschende Gesellschaft, Mitteilungen (1855–)	29 (1933)
Université de Lausanne, Bulletin des Laboratoires de Géologie, Géographie Physique, Minéralogie, Paléontologie (1901–1940)	69 (1940)
Université de Lausanne, Bulletin des Laboratoires de Géologie, Minéralogie, Géophysique et du Musée Géologique (1941–) (incomplete set)	160 (1965)
Vereinigung Schweizerischer Petroleum-Geologen und -Ingenieure, Bulletin (1935–) (incomplete set)	31, no. 80 (1964)

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SMPM = Schweizerische Mineralogische und Petrographische Mitteilungen
SPHN = Société Physique et d'Histoire Naturelle de Genève

AMSTUTZ, ANDRÉ (1925). Les roches éruptives des environs de Dorgali et Orosei en Sardaigne: SMPM **5**, 261–321. *Italy* (3): Quartz porphyry, Basalt, Basalt (dorgalite).

AMSTUTZ, ANDRÉ (1931). Sur le caractère pétrographique des îles Banks, en Mélanésie: SPHN Compte Rendu **48**, 101–104. *New Hebrides, Banks Islands, Vanua Lava* (1): Basalt.

ARÉVALO CARRETÉRO, PILAR, CONRAD BURRI, and MAX WEIBEL (1962). Zur Petrochemie des Roccamonfina-Vulkans (Prov. Caserta, Italien): SMPM **42**, 237–268. *Italy* (14): Biotite-augite latite (vulsinite) (3), Leucitite, Olivine-bearing leucite tephrite, Leucite tephrite (2), Biotite-augite leucite tephrite, Trachyandesite, Olivine trachybasalt, Augite-hornblende trachybasalt, Biotite-augite gabbro (K-gabbro) (2), Pumice.

BAYRAMGIL, ORHAN (1945). Mineralogische Untersuchung der Erzlagerstätte von Isikdağ (Türkei): SMPM **25**, 23–113. *Turkey* (1): Vitrophyre.

BEARTH, PETER (1938). Gesteine der Peruanischen Anden: SMPM **18**, 512–590. *Peru* (15): Granite (alkalic), Granodiorite (2), Granite porphyry, Quartz monzonite porphyry, Quartz monzonite, Diorite, Quartz diorite, Microdiorite (beerbachite), Odinite, Andesite, Plagioclase liparite, Uralite gabbro (2), Melagabbro.

BEARTH, PETER (1959). Über Eklogite, Glaukophanschiefer und metamorphe Pillowlaven: SMPM **39**, 267–286. *Italy* (1): Omphacitite.

BLATTNER, PETER (1965). Ein anatektisches Gneissmassiv zwischen Valle Bodengo und Valle di Livo (Prov. Sondrio und Como): SMPM **45**, 973–1071. *Italy* (25): Garnet aplite, Granite (2), Gneiss (7), Gneiss, amphibolitic, Biotite gneiss (9), Biotite- and garnet-bearing gneiss, Garnet muscovite gneiss, Biotite schist (2), Muscovite biotite schist.

BUFFLE, J. P. (1937). La composition chimique de la méteorite d'Union (Chili): SMPM **17**, 196–201. *Chile* (1): Meteorite.

BURRI, CONRAD (1928). Zur Petrographie der Natronsyenite von Alter Pedroso (Provinz Alemtejo, Portugal) und ihrer basischen Differentiate: SMPM **8**, 374–437. *Portugal* (9): Soda syenite (2), Osannite syenite (2), Albite-analcite pedrosite (analcite-rich), Feldspar-rich albite-analcite pedrosite, Aegirine pedrosite, Aegirine pedrosite (porphyritic), Lusitanite.

BURRI, CONRAD, and HANS HUBER (1932). Geologie und Petrographie des jungvulkanischen Gebietes am Lower Chindwin (Upper Burma): SMPM **12**, 286–344. *Burma* (3): Olivine basalt, Pyroxene hornblendite, Biotite pyroxenite.

BURRI, CONRAD, and ISIDRO PARGA-PONDAL (1933). Zur Petrographie der basischen Eruptivgesteine der Campos de Calatrava (Provinz Ciudad Real, Spanien): SMPM **13**, 40–73. *Spain* (8): Ankaratrite (3), Ankaratrite, porphyritic (2), Ankaratrite, melilite-bearing, Olivine labradorite basalt, Olivine leucitite, melanocratic.

BURRI, CONRAD, and ISIDRO PARGA-PONDAL (1935). Beiträge zur Kenntnis einiger jungvulkanischer Gesteine Spaniens: SMPM **15**, 266–288. *Spain* (7): Ankaratrite, Soda trachyte, Monchiquite, Potash limburgite, Olivine basalt (2), Olivine-bearing nephelinite.

BURRI, CONRAD, and ISIDRO PARGA-PONDAL (1936). Neue Beiträge zur Kenntnis des granatführenden Cordieritandesites vom Hoyazo bei Nijar (Provinz Almería, Spanien): SMPM **16**, 226–262. *Spain* (3): Hornblende diorite (inclusion), Biotite-garnet-sillimanite gneiss (inclusion), Garnet-bearing cordierite andesite.

BURRI, CONRAD, and ISIDRO PARGA-PONDAL (1937). Die Eruptivgesteine der Insel Alborán (Provinz Almería, Spanien): SMPM **17**, 230–268. *Spain* (7): Alboranite (5), Tridymite alboranite, Tridymite peralboranite.

BURRI, CONRAD (1959). Zur Kenntnis der Eruptivgesteine der Punta delle Pietre Nere (Prov. Foggia, Italien): Eclogae geol. Helv. **52**, 407–416. *Italy* (3): Olivine-bearing alkali feldspar hornblendite pyroxenite, Augite biotite mafitite-alkali syenite (2).

COGULU, E., and MARC VUAGNAT (1965). Sur l'existence de rodingites dans les serpentinites des environs de Mihaliççik (Vilayet d'Eskişehir, Turquie): SMPM **45**, 17–20. *Turkey* (2): Rodingite.

DAVIS, ELEUTHERIA N. (1957). Die jungvulkanischen Gesteine von Aegina, Methana und Poros und deren Stellung im Rahmen der Kykladenprovinz: Vulkaninstitut Immanuel Friedlaender Pub. no. **6**, 74 p. *Greece* (12): Hornblende dacitoid (3), Hornblende hypersthene dacitoid, Hornblende-augite-biotite dacitoid, Hornblende-biotite-augite dacitoid, Hornblende augite andesite, Hornblende augite hypersthene andesite (2), Olivine-bearing augite hypersthene andesite, Olivine-bearing hornblende pyroxene andesite, Olivine-bearing pyroxene andesite.

DAWSON, JOHN B., and THURE G. SAHAMA (1963). A note on parawollastonite from Oldoinyo Lengai, Tanganyika: SMPM **43**, 131–133. *Tanzania* (1): Wollastonite-ijolite rock.

*DIEHL, ERNST A. (1938). Geologisch-petrographische Untersuchung der Zone du Grand Combin im Val d'Ollomont (Prov. Aosta, Italien): SMPM **18**, 214–403. *Italy* (8): Amphibole epidote rock (2), Glaucophane gneiss, Chlorite epidote albite schist, Epidote chlorite albite schist, Epidote hornblende albite schist, Hornblende chlorite albite epidote schist, Hornblende epidote albite schist.

DUPARC, LOUIS, and MARGUERITE TIKANOWITCH (1914). Recherches géologiques et pétrographiques sur l'Oural du Nord, le bassin des rivières Wagran et Kakwa: SPHN Mém. **38**, fasc. 2, 69–168. *Soviet Union* (13): Diorite, Diorite porphyry, Gabbro-diorite, Pyroxenite, Serpentine, Hornblende beerbachite, Amphibolite (3), Amphibolite, quartzitic (2), Quartz diorite (2).

DUPARC, LOUIS, and AUGUSTIN GROSSET (1916). Etude comparée des gîtes platinifères de la Sierra de Ronda et de l'Oural: SPHN Mém. **38**, fasc. 5, 253–290. *Soviet Union* (2): Harzburgite, Serpentine.

DUPARC, LOUIS (1922). Les roches vertes et les filons de quartz aurifère du Callao au Venezuela: SMPM **2**, 1–68. *Venezuela* (7): Labradorite porphyrite (2), Diabase, Tuff, altered, Tuff (transitional to epidote amphibolite), Schist, Quartz-chlorite schist.

DUPARC, LOUIS, and F. R. SULZER (1925). Sur les mélaphyres de la chaîne du Grand Atlas (Maroc): SPHN Compte Rendu **42**, 103–105. *Morocco* (2): Melaphyre.

DUPARC, LOUIS, and MARCEL GYSIN (1927). Sur les roches à hypersthène et les roches basiques de la chaîne du Tschistop (Oural du Nord): SMPM **7**, 408–410. *Soviet Union* (3): Norite, Peridotite, Troctolite.

DUPARC, LOUIS, and E. MOLLY (1927a). Sur la roche du Fantalli (Abyssini): SMPM **7**, 412–413. *Ethiopia* (1): Trachyte.

DUPARC, LOUIS, and E. MOLLY (1927b): Sur une augitite d'Abyssinie: SPHN Compte Rendu **44**, 159–160. *Ethiopia* (1): Augitite.

DUPARC, LOUIS, and MARCEL GYSIN (1928). La région située à l'est de la Haute Wichera et des sources de la Pechora: Inst. Nat. Genevois Mém. **22**, 142 p. *Soviet Union* (10): Tilaïte, Olivine gabbro, Norite (2), Gabbro-diorite (3), Gabbro (uralitized), Amphibolite, diabasoid (2).

DUPARC, LOUIS, and E. MOLLY (1928a). Les gisements platinifères du Birbir (Abyssinie): SMPM **8**, 240—257. *Ethiopia* (2): Birbirite, Dunite. *Jugoslavia* (1): Birbirite.

DUPARC, LOUIS, and E. MOLLY (1928b). Sur la présence de la kényite sur le plateau abyssin: SPHN, Compte Rendu **45**, 22–23. *Ethiopia* (1): Kenyte.

DUPARC, LOUIS, and E. MOLLY (1928c). Sur la tokéite, une nouvelle roche d'Abyssinie: SPHN, Compte Rendu **45**, 24–25. *Ethiopia* (1): Tokéite.

DUPARC, LOUIS (1930a). Sur les basaltes et les roches basaltiques du plateau Abyssin: SMPM **10**, 1–37. *Ethiopia* (5): Basalt (4), Black rock.

DUPARC, LOUIS (1930b). Sur un trachyte à anorthose de Gambeila (Abyssinie): SPHN, Compte Rendu **47**, 50–53. *Ethiopia* (1): Trachyte.

DUPARC, LOUIS (1932). Sur les roches éruptives et métamorphiques d'Azégour (Maroc): SMPM **12**, 533–534. *Morocco* (2): Granite, Porphyry.

*FRIEDENREICH, OTTO (1956). Die Chrom-Nickelvererzungen des Peridotitstockes von Finero-Centovalli: SMPM **36**, 227–243. *Italy* (1): Hornblende peridotite.

FRIEDLAENDER, CARL, and PAUL NIGGLI (1931). Beitrag zur Petrographie der Vogesen: SMPM **11**, 365–411. *France* (16): Granite (3), Granite porphyry (3), Granodiorite, Hornblende-bearing biotite granite, Muscovite granite, Diorite, Lamprophyre, Hornblende, Vogesite, Andesite tuff, Porphyry, Limburgite.

FRIEDLAENDER, CARL (1942). Sur les gisements aurifères de la region de Musefu (Congo Belge): SMPM **22**, 248–269. *Congo* (3): Quartz norite.

FRIEDLAENDER, CARL (1949). Beitrag zur Petrographie des Kivusee-Gebietes: SMPM 29, 156–192. *Congo* (4): Kivite, Leucite theralite, Basalt, essexitic (2).

FRICKER, PETER, and MAX WEIBEL (1960). Zur Kenntnis der Eruptivgesteine in der Cordillera Vilcabamba (Peru): SMPM **40**, 359–382. *Peru* (11): Quartz porphyry (2), Quartz diorite, Granodiorite (3), Tonalite, Gabbro-diorite, Titanaugite dolerite (2), Paragneiss-granite transition rock.

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GROSCLAUDE, RENÉ E. (1933). Etude du gisement de molybdénite d'Azégour (Maroc): Arch. Sci. Phys. Nat. **15**, 93–126. *Morocco* (4): Garnet rock, Quartz mica schist, Andalusite schist, Spotted schist.

GYSIN, MARCEL, and LOUIS DUPARC (1927). Sur les gabbros et les gabbros diorites de la chaîne du Tschistop (Oural du Nord): SMPM **7**, 410–412. *Soviet Union* (4): Tilaïte, Gabbro, Gabbro diorite, Olivine gabbro.

HEIM, ARNOLD, and AUGUST GANSSER (1939). Central Himalaya; geological observations of the Swiss Expedition 1936: Schweiz. Naturf. Ges. Denk. **73**, 245 p. *Nepal* (1): Muscovite-tourmaline-aplite granite. *Tibet* (3): Syeno-diorite, Enstatite peridotite (harzburgite), Hornblende biotite-bearing granite. *India* (6): Green schist, Garnetiferous biotite psammite gneiss, Muscovite gneiss, Sillimanite biotite gneiss, Tourmaline aplite granite, Spodumene pegmatite.

HIRSCHI, HANS (1923). Radioaktivität zweier Eruptivgesteine und ihre genetische Beziehung zur Pechblende von Central City (Colorado): SMPM **3**, 240–252. *United States* (1): Granite.

HIRSCHI, HANS, and F. DE QUERVAIN (1927). Beiträge zur Petrographie von Baja California (Mexiko): SMPM **7**, 142–164. *Mexico* (7): Granodiorite (4), Quartz-biotite hornblende diorite (potash-rich), Biotite granite, Tonalite.

HIRSCHI, HANS, and FRANCIS DE QUERVAIN (1928). Beiträge zur Petrographie von Baja California (Mexiko): SMPM **8**, 323–356. *Mexico* (8): Granite, Hornblende granite, Granodiorite (2), Biotite-hornblende granite, Hornblende diorite, quartz-bearing, Hypersthene gabbrodiorite, Norite gabbro.

HIRSCHI, HANS, and FRANCIS DE QUERVAIN (1933). Beiträge zur Petrographie von Baja California (Mexiko): SMPM **13**, 232–277. *Mexico* (5): Granite, Granodiorite, Biotite-hornblende andesite, Biotite-hornblende-hypersthene dacite, Pyroxene-amphibole andesite.

HIRSCHI, HANS (1936). Zur Petrographie von Nordwest-Sonora (Mexiko): SMPM **16**, 263–289. *Mexico* (11): Granite (2), Granite, sphene-rich, Granite pegmatite, Biotite-hornblende granite, Biotite dacite, Liparite, Hornblende andesite, Hornblende biotite andesite, Granodiorite, Olivine basalt.

HUTTENLOCHER, HEINRICH F. (1927). Beiträge zur Charakteristik der westalpinen Metallisation: SMPM **7**, 165–178. *Italy* (1): Amphibolite.

HUTTENLOCHER, HEINRICH F. (1942). Beiträge zur Petrographie des Gesteinszuges Ivrea-Verbano I. Allgemeines. Die gabbroiden Gesteine von Anzola: SMPM **22**, 326–366. *Italy* (1): Hornblende gabbro.

JAFFÉ, FÉLICE C. (1955). Les ophiolites et les roches connexes de la région du Col des Gets: SMPM **35**, 1–150. *France* (16): Albitite, Albite granite, Diabase (6), Ophispherite (5), Serpentine, Zoisitite, Variole from pillow lava.

JAKOB, JOHANN (1931). Über den Chemismus der Serpentine. I. Mitteilung: SMPM **11**, 50–66. *Canada* (1): Serpentine. *South Africa* (2): Serpentine. *Norway* (2): Serpentine.

JAKOB, RUTH (1958). Zur Petrographie von Vulcano, Vulcanello und Stromboli (Äolische Inseln, Italien): Vulkaninstitut Immanuel Friedlaender Pub. no. **7**, 117 p. *Italy* (40): *Vulcanello* (8), Andesitoid (2), Olivine-bearing trachyandesite, Leucite basanitoid, Leucite basanite (4); *Vulcano* (11): Olivine-bearing trachybasalt (3), Trachybasalt, Olivine-bearing vicoite, Trachyandesite, Olivine-bearing plagioclase trachytoid (4), Obsidian; *Stromboli* (21): Hypersthene-biotite trachyandesite, Hypersthene-augite andesitoid, Hypersthene-augite trachyandesite, Basalt (3), Rhyolite, Leucite basanite (3), Basalt, andesitic, Biotite-bearing trachybasalt, Olivine-bearing trachybasalt (4), Olivine-augite gabbro, Hornblende-augite-olivine gabbro, Syenogabbro, Syenogabbro, monzonitic, Leucodiorite.

JÉRÉMINE, ELISABETH (1949). Sur quelques roches intrusives et metamorphiques de la province de Québec: Soc. Vaudoise Sci. Nat. Mém. **9**, 163–193. *Canada* (7): Granodiorite (2), Monzonite, Shonkinite, Syenite (3).

JUGOVICS, LUDWIG (1939). Der Asphaltspuren führende Andesit des Sulyomtetö im Cserhát-Gebirge (Ungarn): SMPM **19**, 310–324. *Hungary* (1): Andesite.

KARAMATA, STEVAN (1957). Augit-Granite im Granodioritmassiv der Boranja (West-Serbien): SMPM **37**, 51–63. *Jugoslavia* (2): Hornblende quartz monzonite, Augite granite.

KARAMATA, STEVAN (1958). Endomorphe Änderungen in den granodioritischen Hochplatonen Serbiens am Kontakt zu den Kalksteinen: SMPM **38**, 1–18. *Jugoslavia* (6): Pyroxene garnet skarn (2), Augite quartz monzonite, Biotite hornblende granodiorite, Augite monzonite, Hornblende biotite diorite.

KELTERBORN, PAUL (1925). Einige Notizen über die Gesteine des jungvulkanischen Gebietes am Lower Chindwin, Upper-Burma: Eclogae Geol. Helv. **19**, 352–359. *Burma* (2): Liparite, Hornblende andesite.

KENNEDY, WILLIAM Q. (1931). The igneous rocks, pyrometasomatism, and ore deposition at Traversella, Piedmont, Italy: SMPM **11**, 76–139. *Italy* (6): Aplite, Biotite hyperite, Diopside rock, Garnet rock, Orthoclase-bearing plagioclase-diopside rock, Diopside-plagioclase-garnet rock.

KOENIG, M. A. (1965). Synorogen-alpiner Magmatismus im oberen Veltlin: SMPM **45**, 6–12. *Italy* (1): Diabase porphyry.

LUGEON, MAURICE, and HENRI SIGG (1917). Observations géologiques et pétrographiques dans la Chalcidique orientale: Soc. Vaudoise Sci. Nat. Bull. **51**, 539–574. *Greece* (3): Plagiogranite, Diorite, Dacite, micaceous.

LUGEON, MAURICE, and HENRI SIGG (1918). Sur quelques roches éruptives de la Caroline du Nord: Soc. Vaudoise Sci. Nat. Bull. **52**, 99–112. *United States* (4): Olivine gabbro, Uralite porphyrite (2), Quartz keratophyre.

LUGEON, MAURICE, and ELISABETH JÉRÉMINE (1930). Granite et gabbro de la Sila de Calabre: Soc. Vaudoise Sci. Nat. Mém. **3**, 209–231. *Italy* (7): Granite, monzonitic (2), Diorite (2), Diorite, quartzitic, Pyroxenolite, Gabbro.

MARMO, VLADI (1958). The problem of late-kinematic granites: SMPM **38**, 19–42. *Sierra Leone* (5): Albite-microcline granite (4), Granodiorite.

MARMO, VLADI (1959). Dixeyite — a new natural hydrous aluminiumsilicate: SMPM **39**, 125–132. *Sierra Leone* (1): Amphibolite.

*MASSON, RENÉ (1938). Geologisch-petrographische Untersuchungen im unteren Valpelline, Provinz Aosta (Italien): SMPM **18**, 54–213. *Italy* (17): Ophiolite, Sillimanite biotite cordierite garnet rock, Sillimanite kinzigite, Kinzigite gneiss, Sphene-bearing chlorite sericite albite gneiss, Sillimanite garnet alkali feldspar gneiss, Garnet-bearing biotite plagioclase gneiss (3), Augite plagioclase hornfels, Diopside hypersthene plagioclase hornfels, Diopside amphibolite, Hornblende-bearing norite, Diopside marble, Pseudotachylyte, Blastomylonite, Ultramylonite.

NIGGLI, PAUL (1923). Der Taveyannazsandstein und die Eruptivgesteine der jungmediterranen Kettengebirge: SMPM **2**, 169–275. *Italy* (8): Baveno (2): Granite, Aplite granite; *Biella* (2): Amphibole syenite, Hornblende rich basic syenite; Traversella (4): Diorite (3), Porphyrite.

NIGGLI, PAUL, and B. LOMBAARD (1933). Das Bushveld als petrographische Provinz: SMPM **13**, 110–186. *South Africa* (21): *Bushveld:* Granite (2), Granite, granophyric, Granite, porphyritic, Granophyre, Felsite (7), Quartz diorite (dachnorite), Norite, Anorthosite, Magnetite norite (2), Gabbro, Diabase-quartz gabbro, Quartz-bearing albite syenite, Quartz diorite-granodiorite transitional rock.

OULIANOFF, NICOLAS (1964). Feldspaths „zonés" dans les enclaves du granite du massif du Mont-Blanc: SMPM **44**, 137–155. *France* (3): Hornfels (2), Granite.

PARGA-PONDAL, ISIDRO, and GABRIEL MARTÍN CARDOSO (1948). Die Lithiumpegmatite von Lalín in Galizien (Prov. Pontevedra, Spanien): SMPM **28**, 324–334. *Spain* (2): Staurolite mica slate, Injection gneiss.

PARKER, ROBERT L. (1926). Über Lamprophyre im Granit von Baveno: SMPM **6**, 102–114. *Italy* (3): Camptonite (2), Spessartite.

RITTMANN, ALFRED (1931). Gesteine und Mineralien vom Monte Vulture in der Basilicata: SMPM **11**, 240–252. *Italy* (4): Amphibole pyroxenite, Pyroxenite, Haüyne-riedenite, Garnet-haüyne-riedenite.

RITTMANN, ALFRED (1934). Der Alkalitrachyt der Solfatara und seine Zersetzung durch Fumarolendase: SMPM **14**, 1–21. *Italy* (1): Alkali trachyte.

ROMANG, MARKUS (1922). Petrographische Untersuchung zinnerzführender Gesteine aus Kinta (Malakka): Eclogae Geol. Helv. **17**, 178–251. *Malaya* (1): Biotite granite.

RÖMER, HENRY S. DE (1963). Zunehmende Regionalmetamorphose im NE-Teil des Labrador-Beckens, westlich von Fort Chimo, New-Quebec, Kanada: Eclogae Geol. Helv. **56**, 183–192. *Canada* (8): Amphibolite (3), Garnet amphibolite, Hornblende mica gneiss, Pegmatite, Gneiss, schistose, Gneiss, normal banded.

SAGIROGLU, GALIB (1944). Sur quelques andésites et basaltes de la région de Sebin Karahisar (Anatolie): SPHN Compte Rendu **61**, 196–200. *Turkey* (1): Andesite.

SCHILLING, JOSEF (1957). Petrographisch-geologische Untersuchungen in der unteren Val d'Ossola: SMPM **37**, 435–544. *Italy* (16): Gabbronorite, Gabbronorite, pyroxene rich, Pyroxene pegmatite, Gabbrodiorite, Basic vein rock, Amphibolite, Pyroxene amphibolite, Garnet amphibole gneiss, Garnet plagioclase gneiss, Garnet gabbro, Quartz garnet ilmenite-bearing band, Garnet anorthosite, Lamprophyre gabbroid vein, Gabbroid vein, Biotite gneiss, Pyroxene granite, striped (stronalith).

SCHNEIDER, HERMANN (1965). Petrographie des Lateravulkans und die Magmenentwicklung der Monti Volsini (Prov. Grosseto, Viterbo und Orvieto, Italien): SMPM **45**, 331–455. *Italy* (23): *Latera volcano* (13): Pyroxene trachyte, Trachybasalt (2), Trachyvicoite, Vicoite, var. orvietite (2), Leucite-bearing augite-biotite monzonite, Leucite tephrite var. ottajanite, Leucite-rich leucite tephrite, Leucite-bearing sanidinite, Feldspar-rich vicoite, Trachyte, leucocratic, Olivine-bearing trachyandesite; *Monti Volsini* (10): Trachybasalt, Trachyte (2), Vulsinite (2), Leucitite (2), Leucite tephrite (2), Leucite-rich leucite tephrite.

SCHWANDER, HANS (1960). Neue Anwendungen zur quantitativen spektrochemischen Bestimmung der Hauptkomponenten in Silikatgesteinen und -mineralien (Pressverfahren, Stallwood Jet): SMPM **40**, 289–311. *North Borneo* (1): Hornblende quartz monzonite.

SIGG, HENRI (1918). Quelques roches et minéraux de la Sysserskaya-Datcha dans l'Oural: Soc. Vaudoise Sci. Nat. Bull. **52**, 161–181. *Soviet Union* (5): Quartz schist, Quartz mica schist (2), Thermophyllite, Granite, crocidolite-bearing.

SMIRNOFF, N. (1917). Les granits de Tscheliabinsk (Oural du Sud) et leurs modes de differenciation: Arch. Sci. Phys. Nat. **43**, 317–331, 402–416. *Soviet Union* (7): Granite (2), Granite with sphene, Amphibole granite, Porphyry, Biotite porphyry, Plagioclase porphyry.

SMITH, WALTER CAMPBELL, and CONRAD BURRI (1933). The igneous rocks of Fernando Noronha: SMPM **13**, 405–434. *Brazil* (5): *Fernando Noronha* (3): Alkali trachyte, Gauteite, Monchiquite (?); *Gineta or San Miguel Island:* Sodalite phonolite, trachytic; *Platform or San José Island:* Nepheline basanite.

SOLDATOS, KONSTANTINOS (1961). Die jungen Vulkanite der griechischen Rhodopen und ihre provinziellen Verhältnisse: Vulkaninstitut Immanuel Friedlaender Pub. no. **8**, 102 p. *Bulgaria* (1): Augite uralite andesite. *Greece* (11): Augite-bearing biotite hornblende liparite (2), Augite hypersthene andesite, Augite hornblende quartz dolerite, Pyroxene andesite (3), Hornblende trachyandesite, Hornblende augite trachyandesite, Hypersthene bearing augite essexite dolerite, Olivine-bearing augite dolerite.

STRECKEISEN, ALBERT (1938). Das Nephelinsyenit-Massiv von Ditro in Rumänien als Beispiel einer kombinierten Differentiation und Assimilation: SMPM **18**, 670–671. *Rumania* (1): Orotvite.

STRECKEISEN, ALBERT (1954). Das Nephelinsyenit-Massiv von Ditro (Siebenbürgen): SMPM **34**, 336–409. *Rumania* (6): Ditro-essexite (3), Nepheline syenite (2), Nepheline syenite aplite.

*STUTZ, ALFRED H. (1940). Die Gesteine der Arollaserie im Valpelline (Provinz Aosta, Oberitalien): SMPM **20**, 118–246. *Italy* (14): Chlorite schist, Hornblende diorite (2), Lamprophyre, Epidote chlorite albite schist, Hornblende biotite quartz diorite, Hornblende biotite granodiorite, Biotite hornblende granodiorite, Biotite hornblende granite, Sericite albite gneiss, Phengite alkali feldspar gneiss, Aplite, Para-amphibolite (2).

*SUTER, HANS (1924). Zur Petrographie des Grundgebirges von Laufenburg und Umgebung (Südschwarzwald): SMPM **4**, 89–336. *Germany* (6): Granite, Aplite granite, Andalusite cordierite hornfels, Cordierite gneiss, Cornubianite gneiss (2).

VUAGNAT, MARC (1949a). Sur les pillow lavas dalradiennes de la péninsule du Tayvallich (Argyllshire): SMPM **29**, 524–536. *Scotland* (2): Spilite.

VUAGNAT, MARC (1949b). Variolites et spilites; comparaison entre quelques pillow lavas britanniques et alpines: Arch. Sci. (Genève) **2**, 223–236. *Wales* (3): Spilite.

VUAGNAT, MARC, and FÉLICE JAFFÉ (1954). Sur les ophisphérites de la région des Gets (Haute-Savoie): Arch. Sci. (Genève) **7**, 5–14. *France* (4): Ophisphérite, albitite (2), Ophisphérite, albite hornblende (2).

VUAGNAT, MARC, and LASZLO PUSZTASZERI (1965). Sur la présence de hyaloclastites dans le massif du Mont-Genèvre (Hautes-Alpes): Arch. Sci. (Genève) **18**, 120–123. *France* (1): Hyaloclastite.

*WALTER, PETER (1950). Das Ostende des basischen Gesteinszuges Ivrea-Verbano und die angrenzenden Teile der Tessiner Wurzelzone: SMPM **30**, 1–144. *Italy* (1): Phlogopite peridotite.

WENK, EDUARD, OTTO GRÜTTER, and HANS SCHWANDER (1961). Labradorit aus Plateaubasalt von Ostgrönland: SMPM **41**, 53–63. *Greenland* (1): Olivine-bearing basalt.

WERDMÜLLER, J. O. (1926). Petrographische Untersuchung von Eruptivgesteinen des Pik von Maros in Süd-West-Celebes: SMPM **6**, 209–254. *Indonesia (Celebes Island)* (7): Marosite, Alkali syenite, Alkali trachyte (3), Phonolite, Gauteite.

GEOGRAPHIC INDEX

Brazil (5)

Fernando Noronha Island: SMITH and BURRI 1933.
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Canada (16)

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Fort Chimo area: DE RÖMER 1963.

Chile (1)

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Musefu region, Mt. Lupamba: FRIEDLAENDER 1942.

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Mt. Blanc massif: OULIANOFF 1964.
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Cyclades (Kikladhes) Island group and Methana: DAVIS 1957.
Rhodope area: SOLDATOS 1961.

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Scoresby Sound area: WENK, GRÜTTER, and SCHWANDER 1961.

Hungary (1)

JUGOVICS 1939.

India (6)

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Baveno: NIGGLI 1923; PARKER 1926.
Biella: NIGGLI 1923.
Chialamberto: HUTTENLOCHER 1927.
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Latera Volcano: SCHNEIDER 1965.
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Punta delle Pietre Nere: BURRI 1959.
Roccamonfina: ARÉVALO CARRETÉRO, BURRI and WEIBEL 1962; BEARTH 1959.
Sardinia: AMSTUTZ 1925.
Sila de Calabre: LUGEON and JÉRÉMINE 1930.
Solfatara: RITTMANN 1934.
Stromboli: JAKOB, R. 1958
Traversella: KENNEDY 1931; NIGGLI 1923.
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Val d'Ossola: SCHILLING 1957.
Valpelline: MASSON 1938; STUTZ 1940.
Valle Bodengo – Valle di Livo: BLATTNER 1965.
Veltlin: KOENIG 1965.
Vulcanello: JAKOB, R. 1958.
Vulcano: JAKOB, R. 1958

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Malaya (1)

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Northwest Sonora: HIRSCHI 1936.

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Azégour: DUPARC 1932; GROSCLAUDE 1933.
Grand Atlas: DUPARC and SULZER 1925.

Nepal (1)

HEIM and GANSSER 1939.

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Banks Islands, Vanua Lava: AMSTUTZ 1931.

North Borneo (1)

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Norway (2)

Snarum: JAKOB, J. 1931.

Peru (26)

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Cordillera Vilcabamba: FRICKER and WEIBEL 1960.

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Rumania (7)

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Sierra Leone (6)

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Bushveld: NIGGLI and LOMBAARD 1933.
Pretoria area: JAKOB, J. 1931.

Spain (27)

Almería Province, Alborán Island: BURRI and PARGA-PONDAL 1937.
Hoyazo: BURRI and PARGA-PONDAL 1936.
Ciudad Real Province, Campos de Calatrava: BURRI and PARGA-PONDAL 1933.
Gerona Province: BURRI and PARGA-PONDAL 1935.
Pontevedra Province: BURRI and PARGA-PONDAL 1935; PARGA-PONDAL and CARDOSO 1948.
Tarragona Province: BURRI and PARGA-PONDAL 1935.
Valencia Province: BURRI and PARGA-PONDAL 1935.
Zaragoza Province: BURRI and PARGA-PONDAL 1935.

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Tibet (3)

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Khrebet Salatim, North Urals: DUPARC and GROSSET 1916.

Sysserskaya Datcha, South Urals: SIGG 1918.

Tschistop Range, Upper Vishera (Wichera)-Pechora region, North Urals: DUPARC and GYSIN 1927, 1928; GYSIN and DUPARC 1927.

Wagran River basin, North Urals: DUPARC and TIKANOWITCH 1914.

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North Carolina: LUGEON and SIGG 1918.

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Callao: DUPARC 1922.

Wales (3)

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Albitite	JAFFÉ 1955
Alboranite	BURRI and PARGA-PONDAL 1937
tridymite	BURRI and PARGA-PONDAL 1937
Amphibole epidote rock	DIEHL 1938
Amphibolite	DUPARC and TIKANOWITCH 1914; HUTTENLOCHER 1927; MARMO 1959; DE RÖMER 1963; SCHILLING 1957
diabasoid	DUPARC and GYSIN 1928
diopside	MASSON 1938
epidote (transitional to tuff)	DUPARC 1922
garnet	DE RÖMER 1963
pyroxene	SCHILLING 1957
quartzitic	DUPARC and TIKANOWITCH 1914
Andesite	BEARTH 1938; JUGOVICS 1939; SAGIROGLU 1944
augite hypersthene	SOLDATOS 1961
augite uralite	SOLDATOS 1961
biotite-hornblende	HIRSCHI and DE QUERVAIN 1933
garnet-bearing cordierite	BURRI and PARGA-PONDAL 1936
hornblende	HIRSCHI 1936; KELTERBORN 1925
hornblende augite	DAVIS 1957
hornblende augite hypersthene	DAVIS 1957
hornblende biotite hypersthene	HIRSCHI 1936
olivine-bearing augite hypersthene	DAVIS 1957
olivine-bearing hornblende pyroxene	DAVIS 1957
olivine-bearing pyroxene	DAVIS 1957
pyroxene	SOLDATOS 1961
pyroxene amphibole	HIRSCHI and DE QUERVAIN 1933
tuff	FRIEDLAENDER and NIGGLI 1931
Andesitoid	
glass-rich	JAKOB, R. 1958
hypersthene augite	JAKOB, R. 1958
Ankaratrite	BURRI and PARGA-PONDAL 1933, 1935
melilite-bearing	BURRI and PARGA-PONDAL 1933

porphyritic	BURRI and PARGA-PONDAL 1933
Anorthosite	NIGGLI and LOMBAARD 1933
garnet	SCHILLING 1957
Aplite	KENNEDY 1931; STUTZ 1940
garnet	BLATTNER 1965
granite	NIGGLI 1923; SUTER 1924
nepheline syenite	STRECKEISEN 1954
tourmaline aplite granite	HEIM and GANSSER 1939
Augitite	DUPARC and MOLLY 1927b
Basalt	AMSTUTZ 1925, 1931; DUPARC and MOLLY 1930a; JAKOB, R. 1958
andesitic	JAKOB, R. 1958
essexitic	FRIEDLAENDER 1949
olivine	BURRI and HUBER 1932; BURRI and PARGA-PONDAL 1935; HIRSCHI 1936
olivine-bearing	WENK, GRÜTTER and SCHWANDER 1961
olivine labradorite	BURRI and PARGA-PONDAL 1933
Basanite	
leucite	JAKOB, R. 1958
nepheline	SMITH and BURRI 1933
Basanitoid	
leucite	JAKOB, R. 1958
Beerbachite	BEARTH 1938
hornblende	DUPARC and TIKANOWITCH 1914
Birbirite	DUPARC and MOLLY 1928a
Black rock	DUPARC and MOLLY 1930a
Blastomylonite	MASSON 1938
Camptonite	PARKER 1926
Dachnorite	NIGGLI and LOMBAARD 1933
Dacite	
biotite	HIRSCHI 1936
biotite hornblende hypersthene	HIRSCHI and DE QUERVAIN 1933
micaceous	LUGEON and SIGG 1917
Dacitoid	
hornblende	DAVIS 1957
hornblende augite biotite	DAVIS 1957
hornblende biotite augite	DAVIS 1957
hornblende hypersthene	DAVIS 1957
Diabase	DUPARC 1922
albite chlorite	JAFFÉ 1955
albite hematite	JAFFÉ 1955
albite hornblende	JAFFÉ 1955
Diabase	DUPARC 1922; JAFFÉ 1955
Diabase-porphyry	KOENIG 1965
Diabase-quartz gabbro	NIGGLI and LOMBAARD 1933
Diopside rock	KENNEDY 1931
orthoclase-bearing plagioclase	KENNEDY 1931

Diorite	Bearth 1938; Duparc and Tikanowitch 1914; Friedlaender and Niggli 1931; Lugeon and Sigg 1917; Lugeon and Jérémine 1930; Niggli 1923
hornblende	Burri and Parga-Pondal 1936; Stutz 1940
hornblende biotite	Karamata 1958
hornblende biotite quartz	Stutz 1940
potash-rich quartz biotite hornblende	Hirschi and de Quervain 1927
quartz	Bearth 1938; Duparc and Tikanowitch 1914; Fricker and Weibel 1960; Niggli and Lombaard 1933
quartz-granodiorite (transition rock)	Niggli and Lombaard 1933
quartz-bearing hornblende	Hirschi and de Quervain 1928
quartzitic	Lugeon and Jérémine 1930
Diorite porphyry	Duparc and Tikanowitch 1914
Ditro-essexite	Streckeisen 1954
Dolerite	
augite hornblende quartz	Soldatos 1961
hypersthene-bearing augite essexite	Soldatos 1961
olivine-bearing augite	Soldatos 1961
titanaugite	Fricker and Weibel 1960
Dorgalite	Amstutz 1925
Dunite	Duparc and Molly 1928a
Felsite	Niggli and Lombaard 1933
Gabbro	Gysin and Duparc 1927; Lugeon and Jérémine 1930; Niggli and Lombaard 1933
biotite augite	Arévalo Carretéro, Burri and Weibel 1962
garnet	Schilling 1957
hornblende	Huttenlocher 1942
hornblende-augite-olivine	Jakob, R. 1958
olivine	Duparc and Gysin 1928; Gysin and Duparc 1927; Lugeon and Sigg 1918
olivine augite	Jakob, R. 1958
uralite	Bearth 1938
uralitized	Duparc and Gysin 1928
Gabbro-diorite	Duparc and Tikanowitch 1914; Duparc and Gysin 1928; Fricker and Weibel 1960; Gysin and Duparc 1927; Schilling 1957
hypersthene	Hirschi and de Quervain 1928
Gabbro-norite	Schilling 1957
pyroxene-rich	Schilling 1957
Gabbroid vein	Schilling 1957
Garnet rock	Grosclaude 1933; Kennedy 1931
diopside plagioclase	Kennedy 1931

Gauteite	SMITH and BURRI 1933; WERDMÜLLER 1926
Gneiss	BLATTNER 1965; DE RÖMER 1963
amphibolitic	BLATTNER 1965
biotite	BLATTNER 1965; SCHILLING 1957
biotite- and garnet-bearing	BLATTNER 1965
biotite garnet sillimanite	BURRI and PARGA-PONDAL 1936
biotite plagioclase	GRAETER 1951
cordierite	SUTER 1924
cornubianite	SUTER 1924
garnet amphibole	SCHILLING 1957
garnet muscovite	BLATTNER 1965
garnet plagioclase	SCHILLING 1957
garnet-bearing biotite plagioclase	MASSON 1938
garnetiferous biotite psammite	HEIM and GANSSER 1939
glaucophane	DIEHL 1938
hornblende mica	DE RÖMER 1963
injection	PARGA-PONDAL and CARDOSO 1948
kinzigite	MASSON 1938
muscovite	HEIM and GANSSER 1939
phengite alkali feldspar	STUTZ 1940
schistose	DE RÖMER 1963
sericite albite	STUTZ 1940
sillimanite biotite	HEIM and GANSSER 1939
sillimanite garnet alkali feldspar	MASSON 1938
sphene-bearing chlorite sericite albite	MASSON 1938
Granite	BLATTNER 1965; DUPARC 1932; FRIEDLAENDER and NIGGLI 1931; HIRSCHI 1923; 1936; HIRSCHI and DE QUERVAIN 1928; 1933; NIGGLI 1923; NIGGLI and LOMBAARD 1933; OULIANOFF 1964; SMIRNOFF 1917; SUTER 1924
albite	JAFFÉ 1955
albite-microcline	MARMO 1958
alkalic	BEARTH 1938
amphibole	SMIRNOFF 1917
augite	KARAMATA 1957
biotite	HIRSCHI and DE QUERVAIN 1927
biotite-bearing hornblende	HEIM and GANSSER 1939
biotite hornblende	HIRSCHI and DE QUERVAIN 1928; HIRSCHI 1936; STUTZ 1940
crocidolite-bearing	SIGG 1918
granophyric	NIGGLI and LOMBAARD 1933
hornblende	HIRSCHI and DE QUERVAIN 1928
monzonitic	LUGEON and JÉRÉMINE 1930
muscovite	FRIEDLAENDER and NIGGLI 1931
muscovite-tourmaline-aplite	HEIM and GANSSER 1939

porphyritic	NIGGLI and LOMBAARD 1933
pyroxene (striped)	SCHILLING 1957
sphene-bearing	SMIRNOFF 1917
sphene-rich	HIRSCHI 1936
tourmaline aplite	HEIM and GANSSER 1939
Granite aplite	NIGGLI 1923; SUTER 1924
tourmaline	HEIM and GANSSER 1939
Granite porphyry	BEARTH 1938; FRIEDLAENDER and NIGGLI 1931
Granodiorite	BEARTH 1938; FRIEDLAENDER and NIGGLI 1931; FRICKER and WEIBEL 1960; HIRSCHI and DE QUERVAIN 1928, 1933; HIRSCHI 1936; JÉRÉMINE 1949; MARMO 1958
biotite hornblende	KARAMATA 1958; STUTZ 1940
hornblende biotite	STUTZ 1940
hornblende-bearing biotite	FRIEDLAENDER and NIGGLI 1931
Granodiorite-quartz diorite (transition rock)	NIGGLI and LOMBAARD 1933
Granophyre	NIGGLI and LOMBAARD 1933
Harzburgite	DUPARC and GROSSET 1916
Hornblendite	FRIEDLAENDER and NIGGLI 1931
pyroxene	BURRI and HUBER 1932
Hornblendite-pyroxenite	
olivine-bearing alkali feldspar	BURRI 1959
Hornfels	OULIANOFF 1964
andalusite cordierite	SUTER 1924
augite plagioclase	MASSON 1938
diopside hypersthene plagioclase	MASSON 1938
Hyaloclastite	VUAGNAT and PUSZTASZERI 1965
Hyperite	
biotite	KENNEDY 1931
Ijolite-wollastonite rock	DAWSON and SAHAMA 1963
Kenyte	DUPARC and MOLLY 1928b
Keratophyre	
quartz	LUGEON and SIGG 1918
Kinzigite	MASSON 1938
sillimanite	MASSON 1938
Kivite	FRIEDLAENDER 1949
Lamprophyre	FRIEDLAENDER and NIGGLI 1931; STUTZ 1940
Lamprophyre gabbroid vein	SCHILLING 1957
Latite	
biotite augite	ARÉVALO CARRETÉRO, BURRI and WEIBEL 1962
Leucitite	ARÉVALO CARRETÉRO, BURRI and WEIBEL 1962; SCHNEIDER 1965
olivine, melanocratic	BURRI and PARGA-PONDAL 1933
Leucodiorite	JAKOB, R. 1958
Limburgite	FRIEDLAENDER and NIGGLI 1931
potash	BURRI and PARGA-PONDAL 1935

Liparite	HIRSCHI 1936; KELTERBORN 1925
augite-bearing biotite hornblende	SOLDATOS 1961
plagioclase	BEARTH 1938
Lusitanite	BURRI 1928
Mafitite	
augite biotite alkali syenite	BURRI 1959
Marble, diopside	MASSON 1938
Marosite	WERDMÜLLER 1926
Melagabbro	BEARTH 1938
Melaphyre	DUPARC and SULZER 1925
Meteorite	BUFFLE 1937
Microdiorite	BEARTH 1938
Monchiquite	BURRI and PARGA-PONDAL 1935; SMITH and BURRI 1933
Monzonite	JÉRÉMINE 1949
augite	KARAMATA 1958
augite quartz	KARAMATA 1958
hornblende quartz	KARAMATA 1957; SCHWANDER 1960
leucite-bearing augite biotite	SCHNEIDER 1965
quartz	BEARTH 1938
Nephelinite	
olivine-bearing	BURRI and PARGA-PONDAL 1935
Norite	DUPARC and GYSIN 1927, 1928; NIGGLI and LOMBAARD 1933
hornblende-bearing	MASSON 1938
magnetite	NIGGLI and LOMBAARD 1933
quartz	FRIEDLAENDER 1942
Norite-gabbro	HIRSCHI and DE QUERVAIN 1928
Obsidian	JAKOB, R. 1958
Odinite	BEARTH 1938
Omphacitite	BEARTH 1959
Ophiolite	MASSON 1938
Ophispherite	
albite chlorite	JAFFÉ 1955
albite hornblende	VUAGNAT and JAFFÉ 1954; JAFFÉ 1955
albite leucoxene chlorite	JAFFÉ 1955
albitite	VUAGNAT and JAFFÉ 1954; JAFFÉ 1955
chlorite leuxocene	JAFFÉ 1955
zoisitite	JAFFÉ 1955
Orotvite	STRECKEISEN 1938
Orvietite	SCHNEIDER 1965
Ottajanite	SCHNEIDER 1965
Para-amphibolite	STUTZ 1940
Paragneiss-granite (transition rock)	FRICKER and WEIBEL 1960
Pedrosite	
aegirine	BURRI 1928

aegirine, porphyritic	Burri 1928
albite-analcite	Burri 1928
analcite-rich albite analcite	Burri 1928
feldspar-rich albite analcite	Burri 1928
Pegmatite	de Römer 1963
granite	Hirschi 1936
pyroxene	Schilling 1957
spodumene	Heim and Gansser 1939
Peralboranite	
tridymite	Burri and Parga-Pondal 1937
Peridotite	Duparc and Gysin 1927
enstatite	Heim and Gansser 1939
hornblende	Friedenreich 1956
phlogopite	Walter 1950
Phonolite	Werdmüller 1926
sodalite	Smith and Burri 1933
Plagiogranite	Lugeon and Sigg 1917
Porphyrite	Niggli 1923
labradorite	Duparc 1922
uralite	Lugeon and Sigg 1918
Porphyry	Duparc 1932; Friedlaender and Niggli 1931; Smirnoff 1917
biotite	Smirnoff 1917
diabase	Koenig 1965
diorite	Duparc and Tikanowitch 1914
granite	Bearth 1938; Friedlaender and Niggli 1931
plagioclase	Smirnoff 1917
quartz	Amstutz 1925; Fricker and Weibel 1960
quartz monzonite	Bearth 1938
Pseudotachylite	Masson 1938
Pumice	Arévalo Carretéro, Burri and Weibel 1962
Pyroxenite	Duparc and Tikanowitch 1914; Lugeon and Jérémine 1930; Rittmann 1931
amphibole	Rittmann 1931
biotite	Burri and Huber 1932
olivine-bearing alkali feldspar hornblendite	Burri 1959
Quartz garnet ilmenite-bearing band	Schilling 1957
Rhyolite	Jakob, R. 1958
Riedenite	
garnet-haüyne	Rittmann 1931
haüyne	Rittmann 1931
Rodingite	Cogulu and Vuagnat 1965
Sanidinite	
leucite-bearing	Schneider 1965
Schist	Duparc 1922
andalusite	Grosclaude 1933

biotite	BLATTNER 1965
biotite muscovite	BLATTNER 1965
chlorite	STUTZ 1940
chlorite epidote albite	DIEHL 1938
epidote chlorite albite	DIEHL 1938; STUTZ 1940
epidote hornblende albite	DIEHL 1938
green	HEIM and GANSSER 1939
hornblende chlorite albite epidote	DIEHL 1938
hornblende epidote albite	DIEHL 1938
quartz	SIGG 1918
quartz chlorite	DUPARC 1922
quartz mica	GROSCLAUDE 1933; SIGG 1918
spotted	GROSCLAUDE 1933
Serpentine	DUPARC and TIKANOWITCH 1914; DUPARC and GROSSET 1916; JAFFÉ 1955; JAKOB, J. 1931
Shonkinite	JÉRÉMINE 1949
Sillimanite biotite cordierite garnet rock	MASSON 1938
Sillimanite kinzigite	MASSON 1938
Skarn	
pyroxene garnet	KARAMATA 1958
Slate	
staurolite mica	PARGA-PONDAL and CARDOSO 1948
Spessartite	PARKER 1926
Spilite	VUAGNAT 1949a; 1949b
Syenite	JÉRÉMINE 1949
alkali	WERDMÜLLER 1926
alkali syenite-augite biotite mafitite	BURRI 1959
amphibole	NIGGLI 1923
hornblende-rich, basic	NIGGLI 1923
nepheline	STRECKEISEN 1954
nepheline syenite aplite	STRECKEISEN 1954
osannite	BURRI 1928
quartz-bearing albite	NIGGLI and LOMBAARD 1933
soda	BURRI 1928
soda (schlieren)	BURRI 1928
Syeno-diorite	HEIM and GANSSER 1939
Syenogabbro	JAKOB, R. 1958
monzonitic	JAKOB, R. 1958
Tephrite	
biotite augite leucite	ARÉVALO CARRETÉRO, BURRI and WEIBEL 1962
leucite	ARÉVALO CARRETÉRO, BURRI and WEIBEL 1962; SCHNEIDER 1965
leucite, var. ottajanite	SCHNEIDER 1965
leucite-rich leucite	SCHNEIDER 1965
olivine-bearing leucite	ARÉVALO CARRETÉRO, BURRI and WEIBEL 1962

Theralite	
leucite	FRIEDLAENDER 1949
Thermophyllite	SIGG 1918
Tilaïte	DUPARC and GYSIN 1928; GYSIN and DUPARC 1927
Tokéite	DUPARC and MOLLY 1928c
Tonalite	FRICKER and WEIBEL 1960; HIRSCHI and DE QUERVAIN 1927
Trachyte	DUPARC and MOLLY 1927a; DUPARC 1930b; SCHNEIDER 1965
alkali	RITTMANN 1934; SMITH and BURRI 1933; WERDMÜLLER 1926
leucocratic	SCHNEIDER 1965
pyroxene	SCHNEIDER 1965
soda	BURRI and PARGA-PONDAL 1935
Trachyandesite	ARÉVALO CARRETÉRO, BURRI and WEIBEL 1962; JAKOB, R. 1958
hornblende	SOLDATOS 1961
hornblende augite	SOLDATOS 1961
hypersthene augite	JAKOB, R. 1958
hypersthene biotite	JAKOB, R. 1958
olivine-bearing	JAKOB, R. 1958; SCHNEIDER 1965
Trachybasalt	JAKOB, R. 1958; SCHNEIDER 1965
augite hornblende	ARÉVALO CARRETÉRO, BURRI and WEIBEL 1962
biotite-bearing	JAKOB, R. 1958
olivine	ARÉVALO CARRETÉRO, BURRI and WEIBEL 1962
olivine-bearing	JAKOB, R. 1958
Trachytoid	
olivine-bearing plagioclase	JAKOB, R. 1958
Trachyvicoite	SCHNEIDER 1965
Troctolite	DUPARC and GYSIN 1927
Tuff	DUPARC 1922
andesite	FRIEDLAENDER and NIGGLI 1931
transitional to epidote amphibolite	DUPARC 1922
Ultramylonite	MASSON 1938
Variole. See Ophispherite	
Vein rock, basic	SCHILLING 1957
Vicoite	
feldspar-rich	SCHNEIDER 1965
olivine-bearing	JAKOB, R. 1958
var. orvietite	SCHNEIDER 1965
Vitrophyre	BAYRAMGIL 1945
Vogesite	FRIEDLAENDER and NIGGLI 1931
Vulsinite	ARÉVALO CARRETÉRO, BURRI and WEIBEL 1962; SCHNEIDER 1965
Wollastonite-ijolite rock	DAWSON and SAHAMA 1963
Zoisitite	JAFFÉ 1955

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