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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 à 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.

*) 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

<i>Name (and span of publication)</i>	<i>Latest number examined</i>
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)

<i>Name (and span of publication)</i>	<i>Latest number examined</i>
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, Denk- schriften (1829/33-)	84, no. 2 (1963)
Schweizerische Naturforschende Gesellschaft, Verhand- lungen (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, Palé- ontologie (1901-1940)	69 (1940)
Université de Lausanne, Bulletin des Laboratoires de Géologie, Minéralogie, Géophysique et du Musée Géo- logique (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

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- 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.
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- 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.
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- HEIM, ARNOLD, and AUGUST GANSSE (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.
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- JAFFÉ, FÉLICE C.** (1955). Les ophiolites et les roches connexes de la région du Col des Gets: SMPM **35**, 1–150. *France* (16): Albite, Albite granite, Diabase (6), Ophispherite (5), Serpentine, Zoisitite, Variole from pillow lava.
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- 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.
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- KOENIG, M. A. (1965). Synorogen-alpiner Magmatismus im oberen Veltlin: SMPM **45**, 6–12. Italy (1): Diabase porphyry.
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- 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, Spheine-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, Pseudotachylite, Blastomylonite, Ultramylonite.
- NIGGLI, PAUL (1923). Der Taveyannazsandstein und die Eruptivgesteine der jungen mediterranen Kettengebirge: SMPM **2**, 169–275. Italy (8): Baveno (2): Granite, Aplit 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, granophytic, 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.
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- 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.
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- 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 (stronolith).
- SCHNEIDER, HERMANN (1965). Petrographie des Lateravulkans und die Magmentwicklung 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): Trachybassalt, Trachyte (2), Vulsinite (2), Leucitite (2), Leucite tephrite (2), Leucite-rich leucite tephrite.
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- 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.

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- 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.
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- *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, Aplit 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.
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- 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.
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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; HUTTEN-LOCHER 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	DAVIS 1957
hypersthene	
olivine-bearing hornblende	DAVIS 1957
pyroxene	
olivine-bearing pyroxene	DAVIS 1957
pyroxene	SOLDATOS 1961
pyroxene amphibole	HIRSCHI and DE QUERVAIN 1933
tuff	FRIEDLAENDER and NIGGLI 1931
Andesitoid	JAKOB, R. 1958
glass-rich	JAKOB, R. 1958
hypersthene augite	BURRI and PARGA-PONDAL 1933, 1935
Ankaratrite	BURRI and PARGA-PONDAL 1933
melilite-bearing	

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 GANSSEN 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	JAKOB, R. 1958
leucite	SMITH and BURRI 1933
nepheline	
Basanitoid	JAKOB, R. 1958
leucite	
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	HIRSCHI 1936
biotite	HIRSCHI and DE QUERVAIN 1933
biotite hornblende hypersthene	LUGEON and SIGG 1917
micaceous	
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		HIRSCHI and DE QUERVAIN 1927
hornblende		BEARTH 1938; DUPARC and TIKANOWITCH 1914; FRICKER and WEIBEL 1960; NIGGLI and LOMBAARD 1933
quartz		NIGGLI and LOMBAARD 1933
quartz-granodiorite (transition rock)		HIRSCHI and DE QUERVAIN 1928
quartz-bearing hornblende		LUGEON and JÉRÉMINE 1930
quartzitic		DUPARC and TIKANOWITCH 1914
Diorite porphyry		STRECKEISEN 1954
Ditro-essexite		SOLDATOS 1961
Dolerite		SOLDATOS 1961
augite hornblende quartz		SOLDATOS 1961
hypersthene-bearing augite		FRICKER and WEIBEL 1960
essexite		AMSTUTZ 1925
olivine-bearing augite		DUPARC and MOLLY 1928a
titanaugite		NIGGLI and LOMBAARD 1933
Dorgalite		GYSIN and DUPARC 1927; LUGEON and JÉRÉ- MINE 1930; NIGGLI and LOMBAARD 1933
Dunite		ARÉVALO CARRETÉRO, BURRI and WEIBEL 1962
Felsite		SCHILLING 1957
Gabbro		HUTTENLOCHER 1942
biotite augite		JAKOB, R. 1958
garnet		DUPARC and GYSIN 1928; GYSIN and DUPARC 1927; LUGEON and SIGG 1918
hornblende		JAKOB, R. 1958
hornblende-augite-olivine		BEARTH 1938
olivine		DUPARC and GYSIN 1928
olivine augite		DUPARC and TIKANOWITCH 1914; DUPARC and GYSIN 1928; FRICKER and WEIBEL 1960;
uralite		GYSIN and DUPARC 1927; SCHILLING 1957
uralitized		HIRSCHI and DE QUERVAIN 1928
Gabbro-diorite		SCHILLING 1957
hypersthene		SCHILLING 1957
Gabbro-norite		SCHILLING 1957
pyroxene-rich		SCHILLING 1957
Gabbroid vein		GROSCLAUDE 1933; KENNEDY 1931
Garnet rock		KENNEDY 1931
diopside plagioclase		

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 GANSSE 1939
glaucophane	DIEHL 1938
hornblende mica	DE RÖMER 1963
injection	PARGA-PONDAL and CARDOSO 1948
kinzigitte	MASSON 1938
muscovite	HEIM and GANSSE 1939
phengite alkali feldspar	STUTZ 1940
schistose	DE RÖMER 1963
sericite albite	STUTZ 1940
sillimanite biotite	HEIM and GANSSE 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 GANSSE 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 GANSSE 1939

porphyritic	NIGGLI and LOMBAARD 1933
pyroxene (striped)	SCHILLING 1957
sphene-bearing	SMIRNOFF 1917
sphene-rich	HIRSCHI 1936
tourmaline aplite	HEIM and GANSSEER 1939
Granite aplite	NIGGLI 1923; SUTER 1924
tourmaline	HEIM and GANSSEER 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	BURRI 1959
olivine-bearing alkali feldspar	OULIANOFF 1964
Hornfels	SUTER 1924
andalusite cordierite	MASSON 1938
augite plagioclase	MASSON 1938
diopside hypersthene plagioclase	MASSON 1938
Hyaloclastite	VUAGNAT and PUSZTASZERI 1965
Hyperite	KENNEDY 1931
biotite	DAWSON and SAHAMA 1963
Ijolite-wollastonite rock	DUPARC and MOLLY 1928b
Kenyte	LUGEON and SIGG 1918
Keratophyre	MASSON 1938
quartz	MASSON 1938
Kinzigit	FRIEDLAENDER 1949
sillimanite	FRIEDLAENDER and NIGGLI 1931; STUTZ 1940
Kivite	SCHILLING 1957
Lamprophyre	ARÉVALO CARRETÉRO, BURRI and WEIBEL 1962
Lamprophyre gabbroid vein	ARÉVALO CARRETÉRO, BURRI and WEIBEL 1962; SCHNEIDER 1965
Latite	BURRI and PARGA-PONDAL 1933
biotite augite	JAKOB, R. 1958
Leucitite	FRIEDLAENDER and NIGGLI 1931
olivine, melanocratic	BURRI and PARGA-PONDAL 1935
Leucodiorite	
Limburgite	
potash	

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	BURRI and PARGA-PONDAL 1935
olivine-bearing	
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 leucoxene	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 GANSSE 1939
Peralboranite	BURRI and PARGA-PONDAL 1937
tridymite	DUPARC and GYSIN 1927
Peridotite	HEIM and GANSSE 1939
enstatite	FRIEDENREICH 1956
hornblende	WALTER 1950
phlogopite	WERDMÜLLER 1926
Phonolite	SMITH and BURRI 1933
sodalite	LUGEON and SIGG 1917
Plagiogranite	NIGGLI 1923
Porphyrite	DUPARC 1922
labradorite	LUGEON and SIGG 1918
uralite	DUPARC 1932; FRIEDLAENDER and NIGGLI 1931;
Porphyry	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	BURRI 1959
hornblendite	SCHILLING 1957
Quartz garnet ilmenite-bearing	JAKOB, R. 1958
band	RITTMANN 1931
Rhyolite	RITTMANN 1931
Riedenite	COGULU and VUAGNAT 1965
garnet-häüyne	SCHNEIDER 1965
häüyne	DUPARC 1922
Rodingite	GROSCLAUDE 1933
Sanidinite	
leucite-bearing	
Schist	
andalusite	

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

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	JAKOB, R. 1958
olivine-bearing plagioclase	SCHNEIDER 1965
Trachyvicoite	DUPARC and GYSIN 1927
Troctolite	DUPARC 1922
Tuff	FRIEDLAENDER and NIGGLI 1931
andesite	DUPARC 1922
transitional to epidote	MASSON 1938
amphibolite	.
Ultramylonite	SCHILLING 1957
Variole. See Ophispherite	
Vein rock, basic	
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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