

# W.H. Mathews fonds

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# Table of Contents

- **Fonds Description**
  - Title / Dates of Creation / Physical Description
  - Biographical Sketch
  - Scope and Content
  - Notes
- **Series Descriptions**
  - Correspondence
  - Personal Papers
  - Lecture/Administrative Material
  - Soil and rock
  - Earthquake
  - Volcano Research
  - Glacier Research
  - Coal Research.
  - Uranium Research
  - BC Power Commission
  - Maps
  - Field Notes
  - Photographs
- **File List**
- **Catalogue entry** (UBC Library catalogue)

# Fonds Description

**W.H. Mathews fonds.** - 1932-1995.

1.38 m of textual records and other materials.

## Biographical Sketch

William H. Mathews was born in Vancouver in 1919 and attended UBC from 1935 to 1941, obtaining a Bachelor of Applied Science in geological engineering. This degree was followed up by a Master of Applied Science at UBC with a major in petrology and a minor in physics. Mathews received many awards during his studies which include: the GM Dawson scholarship in 1939; the Walter Moberly book prize in 1940; and the BC Academy of Science research grant in 1941. His experience in the field includes working as a student assistant for the Geologic Survey of Canada (1938-1941) and the BC Department of Mines as an Associate Mining Engineer (1942-1946). Mathews then taught and completed a PhD at the University of California in 1948 which focused on volcanism and glacial history in an area of southwestern BC. Here, he was also awarded the Class of 1883 Fellowship before returning again to the BC Department of Mines. Mathews joined the Geology department at UBC in 1951 and headed the department from 1964 -1971. Mathews continued teaching and researching at UBC until he retired in 1984 and became a Professor Emeritus. Throughout his lifetime, Mathews was actively involved as a Fellow of the Royal Society of Canada and the Geologic Society of America; a member of the American Geophysical Union, the Geological Association of Canada, the British Glaciological Society, the Arctic Institute of North America, Phi Beta Kappa, Sigma Xi, the Alpine Club of Canada, and the Natural History Society of British Columbia. Mathews passed away in 2003 and will be remembered for his work as a geologist, professional engineer, and as a scholar.

## Scope and Content

The fonds consists of correspondence from 1942-1995; personal papers from 1935-1941; lecture/administrative material from 1950-[196-?]; soil and rock research from 1943-1994; earthquake research from 19[76]-1990; volcano research from 1947-1993; glacial research from 1932-1993; coal research from 1977-1980; uranium research from 1977-1980; BC Power Commission from 1957-1967; field notes from 1944-1945; and photographs from 1912-1977.

## Notes

File list available.

Includes: 357 photographs, 28 cm of maps, 7 charts, 3 negatives.

The bulk of the fonds was donated to the University Archives by Mathews' daughter, Margaret Parlor on February 2005. The notebooks in the Field Notes series were found by Jay Sherwood in an antiquarian book shop in Victoria, and donated to the Archives in October 2017.

Photographs are catalogued as part of the University Archives photograph holdings under [UBC 116.1](#).

Title based on the content of the fonds.

Articles which have not been placed in the "Miscellaneous (un)published articles" file category (within each series), will still be listed by author and title under its own appropriate file name. Therefore, these particular articles have not been separated from other materials (i.e. related correspondence, photographs, maps, and/or notes), thus providing additional context within the specific file.

There are a multitude of different types of maps within this fonds. The maps that have been counted are primarily published maps. Maps which have been kept in files not in the "map series" have been arranged this way to preserve as much of Mathew's original order as possible.

## Series Descriptions

**Correspondence series.** – 1942-1995.

15 cm of textual records.

Series consists of incoming and outgoing letters to W.H. Mathews, and letters relating to his employment, academic career and committee work.

**Personal papers series.** – 1935-1941.

4 cm of textual records.

Series consists of W.H. Mathews's notes and papers as an university and doctoral student.

**Lecture/Administrative material series.** – 1950-196[?].

4 cm of textual records.

3 maps.

Series consists mainly of lecture notes, syllabi, field trip maps and instructions, and transparencies used for various geology courses taught at UBC and UCLA.

**Soil and rock series.** -1943, 1951-1963, 1971-1977, 1980-1989, 1990, 1994.

36 cm of textual records and other materials.

Series consists of materials especially related to soil and rock research. This series includes essays by Mathews, drafts of essays, calculations, statistical information, related correspondence, hand-written maps, diagrams, articles, and hand-written notes.

Includes: 17 photographs, 35 maps, 4 charts, 2 negatives, 6 notebooks.

**Earthquake series.** – 19[76]-1990.

3.5 cm of textual records.

8 maps.

Series consists of materials related to earthquakes and, in some cases, may overlap with the volcano research series. This series includes correspondence, articles, maps, one photograph, and hand-written notes.

**Volcano research series.** – 1947-1993.

10cm of textual records and other materials.

Series consists of materials especially related to volcanic research which have been filed based on specific topics such as neogene basalts, ironmask basolith, and andesitic

volcanism. Otherwise, this series also includes maps and drawings, related correspondence, hand-written notes, reference material, published and unpublished works, as well as one newspaper clipping.

Includes: 11 maps, 6 photographs, 1 negative.

**Glacier research series.** – 1932, 1944, 1949, 1951-1957, 1960, 1966-1981, 1985, 1989, 1991-1993.

44 cm of textual records and other materials.

Series consists of correspondence, various published and unpublished materials, drafts of papers by Mathews, maps, and articles filed by specific topic or region related to glacier research.

Includes: 38 photographs, 30 maps, 3 charts, 2 notebooks.

**Coal research series.** – 1977-1980.

4 cm of textual records.

3 photographs.

Series consists of hand-written notes (including one note-book), reports from UBC and government pertaining to coal research, minutes primarily from the Coal Committee, and UBC interdepartmental memorandum including one from the Science Council of BC. The memorandum file has related information to the minutes file.

**Uranium research series.** – 1977-1980.

6.5 cm of textual records.

Series consists of hand-written notes; published and unpublished materials; various correspondence; various data, correspondence, memos/notices associated with the BC Royal Commission of Inquiry (Health and Environmental Protection: Uranium mining); an assortment of notices, memos, and memorandum related to uranium; permit information, and maps.

**BC Power Commission series.** – 1957-1958, 1967.

11 cm of textual records.

6 photographs.

31 maps.

Series consists of correspondence, essays, maps, diagrams, and articles related to damsites in the Homathko region, which are connected to the Homathko power project.

**Maps series.** – 1916-1971.

11 cm of cartographic material.

Series consists of a selection of maps which were removed from a much larger collection of approximately 150 maps. These maps pertain to the geographic regions of British Columbia, Alberta, and the Yukon, and include the following map series: B.C.

Department of Lands maps, Department of Mines, Geological Survey maps, and Soil maps of British Columbia. Other maps include, glacier and hand drawn maps. The Pre-emptor and Degree map series have been removed from the Mathews fonds and their description and location are available at UBC Rare Books and Special Collections.

**Field Notes series.** – 1944-1945.

4 notebooks.

Series consists of notebooks compiled by W.H. Mathews and his assistants during a geological survey of the Peace River region for the BC Department of Mines. Two of the notebooks were compiled by Mathews, one by J. Fyles, and one by Walter Thomson.

Further background information can be found in BC Department of Mines' [Bulletin No. 24](#), "Geology and Coal Resources of the Carbon Creek-Mount Bickford Map-area" (1946).

**Photographs.** – 1912-1977.

190 b&w photographs and 15 colour photographs.

280 slides.

11 glass slides.

Series consists of a selection of photographs which have been removed from six photo-albums spanning in time from 1912-1937, and 1977. The photographs mainly document various glacier formations in B.C. and the Yukon, various fieldwork projects from volcanic activity to Mammoth Skull in Hudson Hope, B.C. The photographs were individually chosen based on hand-written information about its relative/exact location and sometimes date. Negatives have been retained in their original order of those photographs pertaining to the photo-albums and are held in Boxes 8 and 9.

A small selection of photographs have been catalogued as part of the University Archives photograph holdings under UBC 116.1/1 to UBC 116.1/8. These consist of photographs of W.H. Mathews, his wife Laura Lu, and Mathews on various field trips.

# File List

## BOX 1

### CORRESPONDENCE SERIES

#### Letters to W.H. Mathews

- 1-1 1940s. 1942-1949
- 1-2 1950s. 1950-1958
- 1-3 1960s. 1963-1966
- 1-4 1980s. 1983, 1988
- 1-5 1990s. 1990-1995

#### Letters from W.H. Mathews

- 1-6 1940s. 1944-1949
- 1-7 1950s. 1950-1959
- 1-8 1960s. 1963, 1967
- 1-9 1980s. 1984

#### Related communication

- 1-10 Department of Mines. 1942-1948
- 1-11 Don Munday. 1942-1949
- 1-12 University of California, PhD program. 1945-1949
- 1-13 Garibaldi Park. 1949-1963
- 1-14 Charles S. Ney Biography. 1949-1959, 1975-1976
- 1-15 American Geophysical Union. 1950
- 1-16 UBC appointment. 1950-1962, 1969-1971
- 1-17 Garibaldi Park Committee Minutes. 1953-1964
- 1-18 Alpine Club of Canada. 1958-1963
- 1-19 Mountain Press. 1987-1991
- 1-20 Canadian Journal of Earth Sciences. 1988

### PERSONAL PAPERS SERIES

- 1-21 University notes. [1935-1941]



- 1-22 University papers. 1938-1939  
"Photography for the Field Geologist" 1938  
"Geology of the Black Tusk Area" 1939  
"The Spectrochemical Analysis of Some Native Golds and Silvers  
From Western Canada" [n.d.]  
"Glacial Lakes and Ice Retreat in South-Central British Columbia" [n.d.]  
"The Age of the Coast Mountains of B.C." [n.d.]  
"The Study of Extinct Glacial Lakes" [n.d.]  
"The Table, a Flat-topped Volcano in Southern British Columbia" [n.d.]
- 1-23 Illustrations used for publications [n.d.]

#### LECTURE/ADMINISTRATIVE MATERIAL SERIES

- 1-24 Geology 102A. 1950  
1-25 Geology 202. 1950-1951  
1-26 UBC Committees. 1953  
1-27 Geology - Geomorphology 322. [n.d.]  
1-28 Perpetual Landslide fieldtrip. [n.d.]  
1-29 Mineralogy at UBC & UCLA. [n.d.]  
1-30 Miscellaneous transparencies. [n.d.]

#### SOIL AND ROCK SERIES

- 1-31 Water analyses. 1943, 1953  
1-32 Shell Oil Company. 1951-1956  
1-33 Texada Island. 1952  
1-34 Lions Gate. 1952, 1973-1974  
1-35 The Mount Monteith Structure. 1953  
1-36 San Juan limestone. 1953  
1-37 Chilcotin. 1954, 1963  
1-38 Trans Mountain. 1956  
1-39 Ainsworth camp. 1956, 1959-1960

#### BOX 2

- 2-1 Fraser Delta. 1958, 1961  
2-2 Soil survey. 1958, 1973

- 2-3 Rubble Creek slide. 1958, 1963, 1973-1978  
JM Browning, "Catastrophic rock slide, Mount Huascarán" 1973
- 2-4 Ecstall Mining Co. 1959
- 2-5 Iona Island. 1960
- 2-6 Iona Island maps. 1960
- 2-7 Pollen analysis, Sunwapta Lake. 1960
- 2-8 Lardeau (New Jersey Zinc Explorations Ltd.) 1963
- 2-9 Lardeau (New Jersey Zinc Explorations Ltd.) maps. 1963
- 2-10 Chilliwack River. 1961, 1976, 1980
- 2-11 Portage Mountain Dam. 1966  
GC Morgan et al, "Portage Mountain Dam...materials" 1966
- 2-12 Landslides. 1970-1977  
AM Johnson et al, "Mobilization of debris flows" 1970  
HJ Korner, "Reichweite und Geschwindigkeit von Berstürzen und Fliefschneelawinen" 1975  
GH Eisbacher, "Rockslides in the Mackenzie Mountains, district of Mackenzie" 1977
- 2-13 Mt. Mackenzie landslide, Revelstoke 1971
- 2-14 Liard River. 1972
- 2-15 Cleveland Holdings Ltd., proposed subdivision. 1973  
WH Mathews et al, "The Hope landslide" 1969
- 2-16a Erosion surfaces old and new. 1973-1975
- 2-16b Erosion surfaces old and new. 1973-1975
- 2-17 Haney brickyard. 1974
- 2-18 Peace River. 1974-1975, 1983
- 2-19 Cathedral Lakes Park. 1975-1976  
PZ Melcon, "Tors and weathering in McKeen Ridge, Cathedral Provincial Park, BC" 1975
- 2-20 Kalamalka Lake. 1975-1976
- 2-21 BO Simonsen (Provincial Archaeologist). 1978-1979
- 2-22 BC Hydro, Site C project. 1980
- 2-23 Vanderhoof Drill logs. 1983
- 2-24 Field notes. [n.d.]
- 2-25 K. analyses, Plateau basalti [n.d.]
- 2-26 Landslides, Hope & Garibaldi [n.d.]
- 2-27 Lead lines analysis. [n.d.]
- 2-28 Soil analyses (corresponding to soil maps) [n.d.]
- 2-29a Radiocarbon Age Determination forms & results. 1962, 1967, 1970-1990, 1994  
\*\* These radiocarbon dating files may also correspond to other series.
- 2-29b Radiocarbon Age Determination forms & results. 1962, 1967, 1970-1990, 1994

- 2-30 Forest fires. 196[?]-1969, 1974, 1981  
 Charles W. Philpot, "Temperatures in a Large Natural-fuel Fire" [196?]  
 Hal E. Anderson, "Sundance Fire: An Analysis of Fire Phenomena" 1968  
 Clive M. Countryman, "Project Flambeau... An Investigation of Mass Fire (1964-1967)" 1969  
 G. Bruce Williams et al, "High Temperature of Forest Fires Under Pines as a Selective Advantage Over Oaks" 1981  
 Robert C. Hare, "Heat Effects on Living Plants" [n.d.]
- 2-31 Nazko Flora. 1985, 1989
- 2-32 Mamquam Power project. 1989
- 2-33 Churn Creek, Cretaceous & Paleogene stratigraphy. 1990
- 2-34 Consolation Lake area. [n.d.]
- 2-35 Operation Squamish. [n.d.]

#### EARTHQUAKE SERIES

- 2-36 Correspondence. [1976]
- 2-37 Cheekeye River. 1991
- 2-38 Notes. [n.d.]
- 2-39 Reports. [n.d.]
- 2-40 Published articles. 1956, [1976]-1990  
 WG Milne, "Seismic activity in Canada, West of the 113th meridian 1841-1951" 1956  
 D Burton Slemmons et al, "Remote sensing analysis of fault activity and lineament pattern of the epicentral region of the 1872 pacific northwest earthquake" 197[?]  
 Garry C Rogers, "A microearthquake survey in northwest BC and Southeast Alaska" 1976  
 HS Hasegawa et al, "Quantification of the magnitude 7.3, BC earthquake of June 23, 1946" 1978  
 WF Slawson et al, "Geodetic deformation associated with the 1946 Vancouver Island, Canada, earthquake" 1979  
 Garry C. Rogers, "A documentation of soil failure during the BC earthquake of 23 June, 1946" 1980  
 John V. Ross, "The nature and rheology of the cordilleran upper mantle of BC: infereneces from peridotite xenoliths" 1983  
 Linda Erdman, "Chemistry of neogene basalts of BC and the adjacent Pacific Ocean: a test of tectonic [discrimination] diagrams" 1985  
 Richard A Kerr, "Charleston quakes are larger or widespread" 1986

Nathan L. Green et al, "Eruptive history and K-Ar geochronology of the Late Cenozoic Garibaldi volcanic belt, southwestern BC" 1988

Bryan Kriens et al, "Nature of the contact zone between the north Cascades crystalline core and the methow sequence in the Ross Lake area, Washington: implications for Cordilleran tectonics" 1990

## VOLCANO RESEARCH SERIES

### BOX 3

- 3-1 Les Harrison, volcanic. 1942-1950
- 3-2 Correspondence. 1947, 1951, 1959, 1960-1963, 1984-1989
- 3-3 Newspaper clipping. 1952
- 3-4 Volcanology Standing Committee. 1953-1954
- 3-5 Neogene basalts. 1965, [1980-1993]
- 3-6 Andesitic volcanism. 1968
- 3-7 Published materials. [1961-1983]
  - Glenn E. Rouse et al, "Radioactive dating of tertiary plant-bearing deposits" 1961
  - Andesite Conference abstracts 1968
  - James P. Kennet et al, "Global Increase in Quaternary Explosive Volcanism" [197?]
  - GJ Woodsworth, "Geology of Whitesail Lake Map Area, BC" 1979
  - CJ Hickson et al, Late Cenozoic volcanic rocks of the Clearwater - Wells Gray area, BC" (only the abstract) 1983
  - JG Souther, "The Ilgachuz Range, A Peralkaline Shield Volcano in Central BC" [1983]
  - CJ Hickson et al, "Revised Geologic Mapping of BC" [n.d.]
- 3-8 Unpublished materials. [1947-1951]
- 3-9 Ironmask basolith. [n.d.]
- 3-10 Maps and drawings. [n.d.]
- 3-11 Notes. [n.d.]
- 3-12 Reference material. [n.d.]
- 3-13 Volcanic ash radiocarbon dating. 1966

## GLACIER RESEARCH SERIES

- 3-14 Tide Lake. 1932, 1957, 1969, 1991

- 3-15 Baffin Island, glaciological work. 1949
- 3-16 Glaciology Subcommittee. 1949, 1954, 1966
- 3-17 Juneau Icefield summer research. 1953
- 3-18 Juneau maps. 1949-1953
- 3-19 Causes of ice ages. 1956, 1960, 1969-1977
- M Ewing et al, "A theory of ice ages" 1956
- M Ewing, "The ice ages theory" 1960
- AT Wilson, "The climactic effects of large scale surges of ice-sheets" 1969
- T Hughes, "Convection in the Antarctic ice sheet leading to a surge of the Ice sheet and possibly to a new ice age" 1970
- Y Vasari (ed) et al, "Climactic changes in Arctic areas during the last ten-thousand years" 1971
- WQ Chin, "Almost periodic, stochastic processes of long-range Climactic changes" 1974
- R Blank et al, "Pliocene climactic and glacial history of Antarctica as revealed by Southeast Indian Ocean deep-sea cores" 1975
- JP Kennett et al, "Global increase in quaternary explosive volcanism" 1975
- CLIMAP Project members, "The surface of the ice-age earth" 1976
- JR Bray, "Volcanic triggering of glaciation" 1976
- C Emiliani et al, "First Miami Conference on Isotope Climatology and Paleoclimatology" 1976
- JD Hays et al, "Variations of the earth's orbit: pacemaker of the ice ages" 1976
- JR Bray, "Pleistocene volcanism and glacial initiation" 1977
- 3-20 Salmon River gauging. 1957, 1967
- 3-21 Till composition. 1957, 1960, 1971-1976, 1981
- A Dreimanis et al, "Heavy mineral studies in tills of Ontario and adjacent areas" 1957
- W Harrison, "Original bedrock composition of Wisconsin till in Central Indiana" 1960
- E Yatsu et al, "Research methods in Pleistocene geomorphology" 1971
- E Yatsu et al, "Research methods in Pleistocene geomorphology" (reprint) 1971
- E Yatsu et al, "Research methods in Pleistocene geomorphology" (reprint) 1971
- CP Gravenor et al, "Paleomagnetism and its relationship to till deposition" 1973
- JA Lineback et al, "Glacial tills under Lake Michigan" 1974
- JL Clague, "Glacier-flow patterns and the origin of Late Wisconsinan till in The Southern Rocky Mountain Trench, BC" 1975
- RW May et al, "Compositional variability in tills" 1976

- 3-22 Tide & Sea level. 1961-1962, 1969
- 3-23 Ice thrusting. 1962-[?]
- 3-24 Granduc proposal. 1963-1966, 1973
- 3-25 Glacier Bay. 1963-1974  
 SD Hicks et al, "The determination of land emergence from sea level Observations in Southeast Alaska" [1965]  
 G McKenzie et al, "Glacial history of the Last eleven thousand years in Adams Inlet, Southeastern Alaska" 1971  
 DM Mickelson, "Nature and rate of basal till deposition in a stagnating ice mass, Burroughs Glacier, Alaska" 1973  
 DR Coates (ed), "Glacial Geomorphology" 1974  
 DM Mickelson et al, "Till ridges presently forming above and below sea level in Wachusett Inlet, Glacier Bay, Alaska" 1974
- 3-26 Isostasy. 1963-1975  
 MD Crittenden, "Effective viscosity of the earth derived from isostatic loading of Pleistocene Lake Bonneville" 1963  
 JT Andrews, "Postglacial rebound in Arctic Canada: similarity and prediction of uplift curves" 1967  
 RI Walcott, "Isostatic response to loading of the crust in Canada" 1970  
 RI Walcott, "Late quaternary vertical movements in Eastern North America: quantitative evidence of glacio-isostatic rebound" 1972  
 RI Walcott, "Past sea levels, eustasy and deformation of the earth" 1972  
 RI Walcott, "Structure of the earth from glacio-isostatic rebound" 1973  
 RJ Fulton, "Lithospheric flexure as shown by deformation of glacial lake shorelines in Southern BC" 1975
- 3-27 Glaciology reports and surveys: Granduc Area 1965-1978
- BOX 4
- 4-1/3 Glaciology reports and surveys: Granduc Area 1965-1978
- 4-4 Glacial erosion. [1972-1978]  
 WA White, "Deep erosion by continental ice sheets" 1972  
 CP Gravenor, "Erosion by continental ice sheets" 1975  
 EP Laine, "New evidence from beneath the Western North Atlantic for the depth of glacial erosion in Greenland and North America" 1978
- 4-5 Glaciation, Princeton area. 1976
- 4-6 Glaciation, Princeton area map. [n.d.]
- 4-7 Geomorphic study, Eketahuna, Woodville area in New Zealand. 1964
- 4-8 Eketahuna maps. 1949, 1957

- 4-9 Summit Lake. 1965, 1972, 1975, 1980, 1986, 1989, 1990-1991  
 \*\* Some items from this series also relate to Tide Lake.  
 M Marcus, "Periodic drainage of glacier-dammed Tulsequah Lake, BC" 19[6?]  
 WH Mathews, "Two self-dumping ice-dammed lakes in BC" 1965  
 R Gilbert, "Drainings of ice-dammed Summit Lake, BC" 1972  
 R Gilbert et al, "Sediments of ice-dammed, self-draining Ape Lake, BC" 1986  
 JR Desloges et al, "Estimates of peak discharge from the drainage of ice-dammed Ape Lake, BC, Canada" 1989
- 4-10 Summit Lake. 1966-1968, 1970, 1974, 1993
- 4-11 Jokulhlaups. 1966-1967, 1976, 1980, 1991-1992  
 H Bjornsson, "Jokulhlaups in Iceland: prediction, characteristics and simulation" 1992
- 4-12 G.Neef, Eketahuna report. 1966
- 4-13 Lightening Creek Valley, Manning Park. 1968
- 4-14 Till fabric. [1970]-1975  
 GS Boulton, "Till genesis and fabric in Svalbard, Spitsbergen" [1970]  
 JF Lindsay et al, "A long-axis clast fabric comparison of the squantum 'tillite,' Massachusetts and the Gowganda Formation, Ontario - reply" 1971  
 ER McSaveney, "The surficial fabric of rockfall talus" 1971  
 A Dreimanis et al, "The effect of lithology upon texture of till" 1971  
 A Dreimanis et al, "The effect of lithology upon texture of till" 1971  
 RP Goldthwait, "Why till?" [1971]  
 MP Billings, "Structural geology" 1972  
 CP Gravenor, "The Yarmouth Drumlin Field, Nova Scotia, Canada" 1974  
 G Holdsworth, "Meserve Glacier, Wright Valley, Antarctica: Part I, Basal processes" 1974  
 DM Mark, "On the interpretation of till fabrics" 1974  
 M Stupavsky, "Water release from the base of active glaciers" 1974  
 JJ Clague, "Glacier-flow patterns and the origin of Late Wisconsin till in the southern Rocky Mountain Trench, BC" 1975  
 CP Gravenor et al, "Convention for reporting magnetic anisotropy of till" 1975
- 4-15 Glaciation limits. 1971-1973, 1981  
 G Ostrem, "The height of the glaciation limit in southern BC and Alberta" 1966  
 JT Andrews et al, "Quaternary history of northern Cumberland Peninsula, Baffin Island, NWT: part v: factors affecting corrie glacierization in Okoa Bay" 1971  
 G Ostrem, "Height of the glaciation level in northern BC and Southeastern Alaska" 1972  
 T Pewe et al, "Modern and Wisconsinan snowlines in Alaska" 1972

- G Ostrem, "The transient snowline and glacier mass balance in southern BC and Alberta, Canada" 1973
- G Ostrem et al, "The glaciation level in southern Alaska" 1981
- 4-16 The Laurentide ice sheet - paper. 1973
- 4-17 Correspondence. 1973-1974
- 4-18 Relocation of buried markers - paper. 1975-1976.
- 4-19 Ice retreats in northeastern BC - paper. 1976
- 4-20 Classification of Glacial Deposits. [n.d.]
- 4-21 Glacial Movements. [n.d.]
- 4-22 Lake Agassiz. [n.d.]
- 4-23 Maps. [n.d.]
- 4-24 Miscellaneous published papers. 1957, 1976, 1979, 1981, 1985, 1989
- MF Meier, "The mechanics of crevasse formation" 1957
- A Dreimanis, "Tills: their origin and properties" 1976
- DE Lawson, "Sedimentological analysis of the western terminus region of the Matanuska Glacier, Alaska" 1979
- GKC Clarke et al, "Estimates of the magnitude of glacier outburst floods from Lake Donjek, Yukon Territory, Canada" 1981
- International Workshop, "Hydraulic effects at the glacier bed and Related phenomena: Abstracts" 1985
- JP Schmok et al, "Lacustrine sedimentary record of ice-dammed neoglacial Lake Alsek" 1989
- 4-25/26 Miscellaneous unpublished papers. 1944, 1947, [1951], [1970], 1980, [1991]
- WH Mathews, "Four phases of glaciation with illustrations from southwestern BC" 1944
- WH Mathews, "Marginal accumulation in ice sheets" 1947
- WH Mathews, "Historic and prehistoric fluctuations of alpine glaciers in the Mount Garibaldi map-area, southwestern BC" [1951]
- JE Armstrong et al, "Roberts and Mark discussion" (drafts) [1970]
- WH Mathews, "The scientific method of J Ross Mackay or Arctic explorer" 1980
- WH Mathews, "The record of jokulhlaups and icebergs from Summit Lake, northwestern BC" [1991]
- [WH Mathews?], "The quaternary history of southwestern BC" [n.d.]
- [WH Mathews?], "Part II, movement of the ice: theoretical considerations" [n.d.]
- 4-27 Postglacial Radiocarbon Dates. 1970



## COAL RESEARCH SERIES

- 4-28 Correspondence. 1977-1978
- 4-29 Minutes. 1977-1978
- 4-30 Notes. 1978-[?]
- 4-31 Memorandum. 1978-1980
- 4-32 Reports. 1979-1980

## URANIUM RESEARCH SERIES

- 4-33 Notes. [1977-1978]
- 4-34 Published materials. 1977-1979
- 4-35 Correspondence. 1979-1980
- 4-36 Unpublished materials. [1978-1979]

## BOX 5

- 5-1 Royal Commission of Inquiry. 1979
- 5-2 Notices, memos, and memorandum. 1979
- 5-3 BC exploration permits. 1979
- 5-4 Maps. [n.d.]
- 5-5 Other research [n.d.]

## BC POWER COMMISSION SERIES

- 5-6 Mathews' essay "Geology of the Homathko River Area as Affecting Preliminary Investigations of Power Projects." 1957
- 5-7 Damsites - Homathko. 1957-1958
- 5-8 Moseley Creek Damsite. 1958
- 5-9 Field maps. [?-1967-?]

## MAPS SERIES

### BOX 6

- 6-1 Interprovincial Boundary Commission map. 1916  
Boundary between Alberta and British Columbia, Sheet No. 15. 1916

- 6-2 B.C. Topographical Sketch Map. 1917  
Omineca and Finlay River Basin, Map No. 5A. 1917
- 6-3 Photocopied/Hand drawn maps. 1924-1925
- 6-4 B.C. Department of Lands maps. 1929, 1933, 1940  
Northern British Columbia, Map No. 1H. 1933  
Central British Columbia, Map No. 1L. 1929  
Central British Columbia, Map No. 1L. 1940
- 6-5 Department of Mines, Geological Survey maps. 1930, 1933, 1966  
Kluane Lake, Yukon Territory, Map 1177A. 1966  
Atlin Sheet, B.C. and Yukon, Map 218A. 1930  
Stikine Sheet, Cassier District of B.C., Map 311A. 1933
- 6-6 Soil maps of British Columbia. 1944, 1948, 1954, 1960-1961, 1967  
Dunlevy Creek, Map 803A. 1944  
Gold Bar, Sheet 94 B/2E. 1948  
Bulkley-Terrace Sheet. 1951  
Francois Lake. 1951  
Blair Creek, Sheet 94 B/16E. 1954  
Aikman Creek, Sheet 94 B/9E. 1960  
Cypress Creek, Sheet 94 B/15E. 1960  
Kobes Creek, Sheet 94 B/8E. 1961  
Hackney Hills, Sheet 94 B/7E. 1967  
Chowade River, Sheet 94 B/10E. 1967  
Blueberry, Sheet 94A-NW. [n.d.]  
Rose Prairie, Sheet 94 A-NE. [n.d.]  
Upper Milligan, 94HSE [n.d.]  
Nig Creek, 94HSW [n.d.]
- 6-7 Garibaldi Park map. 1949
- 6-8 Preliminary Map Series in British Columbia. 1957, 1959-1962  
Bennett, Map 19-1957, Sheet 104M. 1957  
Stikine River, Map 9-1957. 1957  
Chutine, Map 7-1959, Sheet 104F. 1959  
Tulsequah, Map 6-1960, Sheet 104K. 1960  
Rabbit River, Map 2-1961, Sheet 94M. 1961  
Dease Lake, Map 21-1962, Sheet 104J. 1962  
Cry Lake, Map 29-1962, Sheet 104I. 1962  
Rabbit River, Map 46-1962, Sheet 94M. 1962
- 6-9 East of Manhoney Lake map. 1959
- 6-10 Kalamalka Lake, DWG. No. 82-L-3, 1959
- 6-11 Glacier maps. 1959, 1970-1971  
Salmon Glacier, B.C. 1959

- Summit Lake - Salmon Glacier, Project No. 80-507. 1970  
Berendon Glacier, B.C., Map 104B. 1971  
6-12 Homathko map. [n.d.]  
6-13 Teslin Lake map. [n.d.]

#### FIELD NOTES SERIES

- 6-14 [4 notebooks]  
W.H. Mathews – 1944 – Peace R – 1  
W.H. Mathews – 1945 – Peace R – 2  
Walter Thomson [n.d.]  
J. Fyles – 1944 – Peace River

#### PHOTOGRAPH SERIES

##### UBC 116.1

The following photographs are catalogued as part of UBC Archives'  
[Historical Photograph Database](#)

- /1 Portrait of W.H. Mathews [193-?] small-print  
/2 W.H. Mathews hiking in Garibaldi Park, B.C. [194-?] small-print  
/3 W.H. Mathews stationed at a field camp [194-?] small-print  
/4 W.H. Mathews at graduation 1948 slide  
/5 W.H. Mathews and Laura Lu's wedding June 1948 glass plate slide  
/6 W.H. Mathews and R.C. James at Summit Ridge of Kokanee Mtn. August  
1949 slide  
/7 W.H. Mathews cutting ice on Mackenzie River June 1954 slide  
/8 W.H. Mathews surveying the land n.d. slide

#### BOX 7

- 7-1 Glacier formations in B.C. and Alaska. 1912-1913, 1947 17 b & w  
photographs  
7-2 Garibaldi Snowfields and glaciers. 1930 12 b & w photographs  
7-3 Illecillewat Glacier. 1936 21 b & w photographs  
7-4 Okmok caldera, Umnak Island, Alaska. 1945 6 b & w photographs  
7-5 Cambria Snowfield. 1950 3 b & w photographs

- 7-6 Leduc Snowfield. 1969 1 colour photograph and 25 b & w photographs
- 7-7 Mammoth Skull gravel pit, Hudson Hope B.C. 1977 9 colour photographs
- 7-8 Damsite Excavation at Hudson, Hope B.C. [197-?] 5 colour photographs
- 7-9 Corbold Creek, Coastal Mountains. [n.d.] 11 b & w photographs
- 7-10 Lightening Lake, Manning Park. [n.d.] 17 b & w photographs
- 7-11 Miscellaneous Aerial photographs. [n.d.] 71 b & w photographs
- 7-12 Juneau icefield. [n.d.] 5 negatives
- 7-13 Scott glacier. [n.d.] 6 negatives

The following files contain a sampling of slides and glass plates that were removed from a larger collection that were originally accumulated by WH Mathews. The pictures are taken from BC (particularly Texada and Garibaldi), California, and the Yukon. The dates range from 1943 (Tuya Butte), 1947-1949, 1954-1955 (Mathews working with Shell), 1965, and undated labeled diagrams. The main emphasis is on field work related to documenting glacial patterns and activity

- 7-14 Tuya Butte. 1943 8 slides
- 7-15 Field work with Shell. 1954-55 79 slides
- 7-16/18 Field work. 1947-1949 193 slides
- 7-19 Garibaldi. 1925 6 glass slides
- 7-20 Texada Island. [n.d.] 4 glass slides

#### BOX 8

##### Wooden box of negatives

One wooden index box containing negatives which has been kept in its original order.

The significance of Mathew's alpha-numeric system is unknown; however, each negative has been dated and named according to the geographic location.

The negatives consist of various geologic formations, water systems and landscapes throughout BC which are assumed to have been captured during his own field work.

#### BOX 9

##### Metal box of negatives

One metal box containing negatives which has been kept in its original order. The significance of Mathew's alpha-numeric system is unknown; however, each negative has been dated and named according to the geographic location.