

UNIVERSITY OF TORONTO ARCHIVES



HELEN S. HOGG PERSONAL RECORDS

B1994-0002

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**TABLE OF CONTENTS**

**BIOGRAPHICAL NOTE .....4**

**SCOPE AND CONTENT.....7**

**SERIES I    GENERAL PROFESSIONAL CORRESPONDENCE.....9**

**SERIES II    PROFESSIONAL ASSOCIATIONS .....10**

**SERIES III    ARTICLES, MANUSCRIPTS, ADDRESSES .....11**

**SERIES IV    STAR CLUSTER FILES AND INDEX CARDS .....13**

**SERIES V    RESEARCH NOTES.....14**

**SERIES VI    UNIVERSITY OF TORONTO. DEPARTMENT OF ASTRONOMY .....14**

**SERIES VII    MOUNT HOLYOKE PAPERS .....15**

**SERIES VIII    ADVISORY COMMITTEE ON SCIENCE AND MEDICINE OF THE CANADIAN  
CORPORATION FOR THE 1967 WORLD EXPOSITION .....15**

**SERIES IX    BELL CANADA DIRECTORSHIP .....16**

**SERIES X    PERSONAL CORRESPONDENCE.....17**

**SERIES XI    DIARIES AND APPOINTMENT BOOKS.....18**

**SERIES XII    EDUCATION.....18**

**SERIES XIII    BIOGRAPHICAL .....19**

**SERIES XVI    ESTATES AND FINANCES .....19**

**SERIES XV    CREATIVE WRITINGS .....20**

**SERIES XVI    SAWYER-DOUGLASS FAMILY PAPERS.....20**

**SERIES XVII    MEMORABILIA .....20**

**SERIES XVIII    GRAPHIC RECORDS .....21**

**SERIES XIX    SOUND RECORDINGS.....23**

**SERIES XX    MOVING IMAGES .....23**

**FRANK S. HOGG SOUS-FONDS .....24**

**RUTH J. NORTHCOTT SOUS-FONDS.....26**

CLARENCE AUGUSTUS CHANT SOUS-FONDS.....27

APPENDIX 1 : GENERAL PROFESSIONAL CORRESPONDENCE .....25

APPENDIX 2 : PROFESSIONAL ASSOCIATIONS.....29

APPENDIX 3 : ARTICLES, MANUSCRIPTS, ADDRESSES.....34

APPENDIX 4 : SLIDES .....38

### BIOGRAPHICAL NOTE

Helen Sawyer Hogg (1905-1993)

One of Canada's most prominent astronomers and a world authority on globular clusters, Helen Sawyer Hogg is also credited with helping to popularize the science of astronomy and for providing an important role model for women in the Physical Sciences.

Born Helen Battles Sawyer on August 1, 1905 in Lowell, Massachusetts, she was the daughter of a banker and schoolteacher from Dunstable, Massachusetts. She attended public school in Lowell and in 1922 she entered Mount Holyoke College, earning an A.B. (Magna cum Laude) in 1926. It was here that she was influenced by the inspirational teachings of Anne Sewell Young, who in no small measure helped to forge her interest in astronomy. It was also at Mount Holyoke she met another major figure in women's astronomy, Annie J. Cannon who was visiting from the Harvard College Observatory. Helen was later offered a Harvard College fellowship to pursue graduate work on globular star clusters where she worked under the leading expert in the field, Harlow Shapley. She obtained her A.M. from Radcliffe in 1928, earned her Ph.D. from the same institution in 1931 and continued to specialize in globular clusters throughout her professional life.

She met her first husband, Frank Scott Hogg, a Canadian graduate student, at the Harvard Observatory and was married in 1930. In 1929 Frank Hogg received the first doctorate in astronomy awarded by Harvard College and Helen Hogg's own Ph.D. was only the third accorded by Radcliffe College, its women's college affiliate. In 1931, Frank Hogg accepted an appointment at the Dominion Astrophysical Observatory in Victoria B.C., then under the directorship of J.S. Plaskett. She followed her husband, continuing her research at the observatory, first as an unpaid volunteer and later with the help of foundation grants.

In 1935, Frank Hogg accepted a position at the University of Toronto with the David Dunlap Observatory, which was to have its formal opening that year. Initially Helen Hogg once again worked as an unpaid volunteer until receiving an appointment as a research assistant with the University in 1936. She continued to teach at the University and work at the observatory for the following four decades. Frank Hogg became director of the observatory in 1946, a position he held until his death at age 46 in 1951. Career advancement came more rapidly following the death of her husband and Helen Hogg attained the standing of professor with the university in 1957, became research professor in 1974 and professor emeritus in 1976.

She interrupted her work at the University twice throughout her career. The first was as Acting Chairman of the Astronomy Department at Mount Holyoke College in 1940-41. The second time was in 1955-1956 when she spent an academic year in Washington as Program Director for Astronomy at the National Science Foundation.

Apart from her responsibilities at the University, Dr. Hogg was very active in numerous academic and astronomy associations. Among the many important positions she held were: president of the Royal Astronomical Society of Canada (1957-1959); first woman president of the Physical Sciences section of the Royal Society of Canada (1960-1961); president of the Royal Canadian Institute (1964-1965); founding president of the Canadian Astronomical Society (1971-1972). Outside her academic milieu, her leadership was recognized when she was appointed one of the first two women directors of Bell Telephone Company of Canada (1968-1978). She also served on the Advisory Committee of Science and Medicine for EXPO 1967.

When her husband Frank Hogg died suddenly in 1951, Dr. Hogg took over the writing of a weekly column "With the Stars" which he had been producing for the Toronto Star. For the next thirty years, she faithfully churned out the column which would provide her with the basis for her popular science work "The Stars Belong to Everyone" (1976). Together, the book and the column, along with a TV Ontario series on astronomy in 1970, established her as one of Canada's best-known popular astronomers. In 1983, Dr. Hogg was the first Canadian to receive the Klumpke-Roberts Award from the Astronomical Society of the Pacific for her work in public education, whose past recipients include Isaac Asimov and Carl Sagan.

In addition to her work in popular astronomy, Dr. Hogg was also a recognized expert in the study of globular clusters, an area of research on which she published over a hundred articles, including several editions of "A Catalogue of Variable Stars in Globular Clusters". In 1972, an International Astronomical Union Colloquium was held in honour of her life work in this field. Another area, which drew her interest, was the history of astronomy on which she was also widely published.

Throughout her lengthy career, she received numerous honours, awards and medals including the Annie J. Cannon Prize (American Astronomical Society 1950); the Rittenhouse Medal (< biblio >); the Sandford Fleming Medal (Royal Canadian Institute 1985). In 1967 she was invested into the Order of Canada and in 1976 she attained the Order's highest level when she was made a Companion of the Order, an honour accorded to only 150 Canadians at any one time. She received honorary degrees from Mount Holyoke (1958), University of Waterloo (1962), McMaster University (1976), University of Toronto (1977), Saint Mary's University (1981) and University of Lethbridge (1985). She has had two telescopes dedicated to her: one at the National Museum of Science and Technology in Ottawa (1987), the other at the University of Toronto Southern Observatory in Chile (1992). Asteroid 2917 was named Sawyer Hogg in 1984. In 1985 the Canadian Astronomical Society and the Royal Astronomical Society of Canada established the annual Helen Sawyer Hogg lectureship in her honour.

Intertwined with her career was Dr. Hogg's devotion to her family and friends, an aspect well documented within her personal papers. When she died at the age of 88 on January 28 1993, she was survived by three children, seven grand children and four great-grandchildren. She was predeceased by her first husband Frank Hogg and her second husband Dr. F.E.L. Priestly, whom she had married in 1985.

**SCOPE AND CONTENT**

18-- - 1993 16.18 m multi-media  
[predominant dates 1926-1993]

This accession contains the personal and professional papers of Dr. Helen Sawyer Hogg documenting her contribution to professional astronomy, her high regard as a popular educator as well as her responsibilities as a parent, daughter, wife and friend. The records have been arranged into series either by type of record or to reflect a certain type of activity. Records documenting various aspects of her career are filed first, followed by papers reflecting her personal life.

Although special media records such as slides, photographs, sound recordings, films and videos directly relate to the textual series, they have been arranged by media at the end. Exceptions to this arrangement are the photographs which were found in textual files and which were removed whenever possible for conservation reasons. In such cases a sheet noting the removal of the image(s) to a specific file in Box /001P was placed in the file so that researchers could easily find the related photographs.

Included is both professional and personal correspondence; records relating to her activities on associations, boards and organizations; records such as draft manuscripts, correspondence and outlines and data relating to her publishing activities and research; papers relating to her education and her teaching responsibilities; as well as diaries and family papers series.

Because Dr. Hogg's career spanned nearly seven decades during a time astronomy as a discipline was still developing both nationally and internationally, these records are not only useful to those researching Dr. Hogg's achievements but will be insightful to those researchers studying the development of astronomy as a science and profession. Moreover, Dr. Hogg was a woman in a field of science, which is still dominated by men. Those studying women's history may find Dr. Hogg's personal records a useful case study in one woman's success in a largely male dominated profession.

Contained within the Helen S. Hogg personal records are three sous-fonds: Frank S. Hogg [1922-1952], her first husband and also an astronomer at the David Dunlap Observatory; Prof. Ruth Northcott [1932-1969], close personal friend and professional colleague of Helen Hogg, also on staff at the D.D.O.; Dr. C.A. Chant [193- - 194-], director emeritus of the D.D.O and head of the Department of Astronomy at the University of Toronto from 1904-1935. These sous-fonds are individually described and have been filed after the Helen Hogg personal records.

**ASSOCIATED MATERIAL:**            UTA Accession B76-0012, B77-0007,  
    B82-0025, B82-0036, B92-0016.

**ACCESS:**        These records are open unless otherwise noted in the Series or Sous-Fonds Descriptions.

**See Series Descriptions and Sous-Fonds Descriptions for further details.**



**SERIES I                      General Professional Correspondence**

1922 - 1992                      1.4 m                      textual ; graphic

This series includes general incoming and out-going correspondence mainly of a professional nature. It is arranged in two parts. The first part consists of files created by Helen Hogg containing correspondence and other accompanying material with individuals, institutions, clubs and associations regarding research, special projects, events, visits, excursions, travel, donations, lectures, awards and publications. For access, these have been arranged alphabetically by file title. Some of the more notable correspondence are with colleagues such as Amelia Whelau (University of Western Ontario), Steven Van Agt (Germany), Martha Liller (Harvard Observatory), Bart J. Bok (Harvard and Australia), Chu Yu-Hua (China), and there is also extensive correspondence with Harlow Shapley, director of the Harvard College Observatory and mentor to Prof. Hogg.

The second part of this series consists of miscellaneous correspondence arranged by decade. Far from being extraneous pieces, this correspondence is quite extensive and reveals much about her professional activities and on-going research. These files contain the largest volume of correspondence documenting both her and Frank Hogg's early career in the 1930s and 1940s. These files were created from loose correspondence within the records or from files, which were clearly miscellaneous.

Researchers should note that while this series does not represent the whole of the Hogg correspondence (much of which is specific to each series), it is a good representation of the scope of her interests and activities. Some of the correspondence relates directly to records in other series and researchers should bear this in mind when investigating a particular topic.

**See File List, Appendix 1.**

**SERIES II Professional Associations**

1935 - 1992 1.85 m textual ; graphic

Records in this series document Dr. Hogg's involvement in numerous associations relating to the study of astronomy. The series, comprised mainly of correspondence, memoranda, reports, membership lists, newsletters, agenda and committee minutes, documents the various positions of authority she held in the leading national and international astronomical and scientific organizations. They cover a twenty-five year span including:

Program Director for Astronomy, United States National Science Foundation (1955-1956); president of the International Astronomical Union Subcommittee on Variable Stars in Star Clusters (1955-1961); president of the Royal Astronomical Society of Canada (1957-1959); first woman president of the Physical Sciences section, Royal Society of Canada (1960-1961); president of the Royal Canadian Institute (1964); Councillor of the American Astronomical Society (1965-1968); first president of the Canadian Astronomical Society (1971-1972); honorary president of the Toronto Centre, Royal Astronomical Society of Canada (1972-1977) and honorary president of the Royal Astronomical Society of Canada (1977-1981).

The series also serves to document the wider activities of these organizations in addition to simply shedding light on the activities of Dr. Hogg alone. Notably, council and committee minutes strongly document the workings of the Toronto Centre of the R.A.S.C. between 1961-1986, the R.S.C. between 1955-1985 and the R.C.I. from 1954-1968. The activities of the IAU are also well represented. In particular, a series of reports and memoranda between 1952-1981 highlight the workings of Commission 27 on Variable Stars. Related records outlining the activities of these professional organizations can also be found in the General Professional Correspondence Series (Series I).

Arrangement is alphabetical by association, which include:

American Astronomical Society (AAS)  
American Association of Variable Star Observers (AAVSO)  
Canadian Astronomical Society (CAS)  
International Astronomical Union (IAU)  
National Research Council (NRC)  
National Science Foundation (NSF)  
Royal Astronomical Society of Canada (RASC)  
Royal Canadian Institute (RCI)  
Royal Society of Canada (RSC)

**See File List, Appendix 2.**

**SERIES III**                      **Articles, manuscripts, addresses**

1927 - 1991                      3.15 m                      textual ; graphic

This is an extensive series, which documents Dr. Hogg's publishing activities. Since many of her published articles were addresses delivered at symposiums or reports made to professional committees, addresses and talks have also been included in this series. The files, usually titled by the name of the article, book or publisher contain not only manuscripts and drafts but related correspondence, notes, memos and outlines.

The arrangement of this series is as follows, starting from general articles to the specific endeavour

- Bibliographies and lists of publications
- General articles, addresses, contributions to encyclopedias
- Obituaries
- Academic Papers on Star Clusters
- Bibliography and Catalogue of Star Clusters
- Contributions to "Out of Old Books"
- "The Stars Belong to Everyone"
- Toronto Star Column
- Miscellaneous Writings
- Reprints

The arrangement within each sub-series varies but is usually chronological. Files containing draft bibliographies of her writings are filed at the beginning of this series and a run of reprints of her articles can be found filed by year at the end.

Records in this series document both Dr. Hogg's stature as an authority on variable stars and star clusters as well as her role as a teacher of popular astronomy. Draft articles and related notes and correspondence on numerous scientific papers as well as files documenting her contribution to encyclopedias and handbooks reflect both of these roles.

Notably, her work on various editions of "A Catalogue of Variable Stars in Globular Clusters" (1st ed. 1939, 2nd ed. 1955, 3rd. ed. 1973 and 4th incomplete), as well as her time spent on "A Bibliography of Individual Globular Clusters" (1947, 1st supplement 1963) is extensively documented through drafts, research data, original manuscripts. These records relate specifically to the card index found in Series IV, Star Cluster Files and Index Cards.

Correspondence, reviews, draft manuscripts, illustrations and photographs relating to the publication of "The Stars Belong to Everyone: How to Enjoy Astronomy" (Doubleday 1976) document her role as a popular educator. Also contributing to a better understanding of this role are records relating to her weekly Toronto Star column, "With the Stars". The scrapbooks containing some 40 years of columns give a good overview of her work in this respect. The earlier scrapbooks, which pre-date her authorship, represent the work of Frank Hogg who wrote the column until his death in 1951.

**See Listing, Appendix 3.**

**Series IV Star Cluster Files and Index Cards**

1934 - 1985

1.5 m

textual ; graphic

The Star Cluster files, assembled over her 40 years as an astronomer, represent the core of Dr. Hogg's research in a field for which she is an authority and from which many of her published articles were derived. The files are variously comprised of raw data, calculations, correspondence, draft and published articles relating to specific globular clusters. Prints from photographic plates also accompany some files. Most files are titled according to the New General Catalogue number, e.g. NGC 6626, of the star cluster and are arranged numerically following Dr. Hogg's own filing system.

A set of ten boxes of bibliographic index cards accompanies the Star Cluster Files. Cards in boxes seem to relate to specific subjects ie. external galaxies, variables in clusters, interstellar absorption. Boxes /044 - /048 are arranged more or less chronologically by the date of the bibliographic references. All were used for various editions of A Catalogue of Variable Stars in Globular Clusters. Box /048 appears to relate specifically to references used in A of Bibliography of Individual Globular Clusters and its supplement. Index cards in box /049 do not appear to be bibliographic references but rather relate information on specific star clusters and are arranged by NGC number.

Photographs have been left in their original files because of their immediate association with the research materials. It was feared that removal of these photos from individual files would obscure the meaning of both the research in the file and the photographs themselves.

**See B1994-0002/033 to /037 (01)-(03) for Star Cluster Files and B1994-0002/040 to /049 for Index Cards.**

**SERIES V Research Notes**

1931 - 1982 0.3 m textual

This is a series comprised of research notes and data relating to specific projects or articles as well as notes taken by Prof. Hogg at various lectures and seminars. Filed at the end are some miscellaneous files containing notes with little or no identification. Arrangement is chronological, with the research notes superseding the seminar notes.

**See B1994-0002/069 and B1994-0002/050 (01)-(14)**

File/050(02) contains notes on a symposium by G. de B. Robinson, Institute of Technology, on the responsibilities of the Canadian University. Also contains notes on a seminar by J.T. Wilson on "Recent Physical and Geological Evidence Leading to a New Theory of Continental Drift" 1963

**SERIES VI University of Toronto. Department of Astronomy**

1941 - 1983 0.42 m textual  
[predominant dates 1950-1974]

This series documents Dr. Hogg's role as a member of the Department of Astronomy, especially her responsibilities as a teacher. Included are attendance lists and grades, laboratory exercises, term papers (1963-64), tests and examinations, and lecture notes. There is also reports and related correspondence showing Hogg's participation on Ph.D. Oral examining boards as well as a file of correspondence relating to the evaluation and recommendation of students and graduates of the Department.

Apart from records that relate directly to Dr. Hogg's teaching function there are also some records related to general administrative issues. Among these are files containing progress and work reports, requests for grants to the National Research Council, correspondence on Dr. Hoggs' salary and tenure status as well as general issues at the David Dunlap Observatory.

Arrangement is by type of record, following as described above.

**ACCESS:** Restricted access to files containing grades and/or evaluations for 75 years from the latest date of file activity. Consult archivist.

**See B1994-0002/037 (04)-(18), /038 and /039**

**SERIES VII Mount Holyoke Papers**

1930 - 1941 0.15 m textual

In 1930-31, while working on her doctorate degree, Dr. Hogg taught astronomy at her alma mater, Mount Holyoke College. A decade later after following her husband to Canada, she returned to Mount Holyoke for a one-year appointment as Acting Chairman of the Astronomy Department. Records in this series which include lecture and lab notes, course outlines, tests and grades document her teaching activities in these early years of her career and supplement records found in Series VI.

Arrangement is by type of record and chronological.

**See Boxes B1994-0002/050 (15)-(21) and B1994-0002/051 (01)-(09)**

**SERIES VIII Advisory Committee on Science and Medicine of the Canadian Corporation for the 1967 World Exposition**

1963 - 1968 0.25 m textual

Includes mainly copies of minutes, reports, agendas and correspondence of the Advisory Committee on Science and Medicine - EXPO, of which Dr. Hogg was an active member. There are also copies of speeches given by EXPO officials. Much of the papers relate to the development of "Themes" including storylines and exhibit designs.

Interfiled with copies of minutes and reports, is some original correspondence between Hogg and members of the committee which documents, to some degree, her particular role in the committee.

The most extensive original material relates to her role as chairman of one of the lectures given as part of the Noranda Lecture Series. Included is correspondence, drafts for her introductory note, and progress reports of the series. The lecture series itself, sponsored by Noranda Mines, featured a host of international scientists, including Nobel Prize Laureates and was attended by specially invited audiences during EXPO '67.

The records are filed chronologically .

**See Boxes B1994-0002/051 (10)-(17) and B1994-0002/052 (01)-(11)**

**SERIES IX                      Bell Canada Directorship**

1967 - 1978                      0.15 m                      textual

This series concerns Dr. Hogg's tenure as a member of the Board of Directors of Bell Canada (1968-1978) and her participation in, and chairmanship of its Social and Environmental Affairs Committee (1973-1978).

It consists primarily of general company related correspondence and memoranda which outline aspects of the workings of this major corporation over a ten year span, and the minutes and correspondence of the Social and Environmental Affairs Committee which she chaired from 1974-1978. The files also include several company-sponsored reports on various topics.

The records are arranged with general company files at the beginning followed by documents relating specifically to the Social and Environmental Affairs Committee. They are filed chronologically within.

**See Boxes B1994-0002/052 (12)-(15) and B1994-0002/053 (01)-(07)**



**SERIES X Personal Correspondence**

1911 - 1993

1.95 m.

textual; graphic

This series contains extensive correspondence from family and friends documenting Dr. Hogg's personal relationships throughout her lifetime. The bulk of it is incoming correspondence, which has been filed by year to impose some order. Filed at the beginning are some files created by Dr. Hogg which also include outgoing correspondence. This is usually filed by correspondent chronologically.

Of significance are the courtship letters between Helen and Frank in the late 1920s, as well as her letters home to her family in Dunstable from the Dominion Observatory in Victoria B.C. and later from the David Dunlap Observatory in Toronto. These letters not only lend insight into their personal lives during these early years but detail, as well the progress of their astronomical work and the general activities at each observatory. They would be useful to anyone researching early astronomy in Canada.

Researchers should note that most of this correspondence was found loose and that attempts to sort it and identify it as personal have been made. However, some of the correspondence may relate directly to professional activities and will inevitably discuss professional as well as personal matters.

**Box Listing:**

B1994-0002/053 Incoming and Outgoing by correspondent 1911-1932  
B1994-0002/054 Incoming and Outgoing by correspondent 1931-1992  
B1994-0002/055 Miscellaneous Incoming, 1922-1939  
B1994-0002/056 Miscellaneous Incoming, 1940-1955  
B1994-0002/057 Miscellaneous Incoming, 1956-1962  
B1994-0002/058 Miscellaneous Incoming, 1963-1969  
B1994-0002/059 Miscellaneous Incoming, 1970-1975  
B1994-0002/060 Miscellaneous Incoming, 1976-1984  
B1994-0002/061 Miscellaneous Incoming, 1985-1989  
B1994-0002/06201)-(08) Miscellaneous Incoming, 1990-1993 and  
n.d.

**SERIES XI Diaries and Appointment Books**

1915 - 1982 0.3 m textual

This series consists of 27 diaries and 3 appointment/address books. The former is particularly valuable in chronicling, if only intermittently, the personal and professional life of Dr. Hogg over a 60-year span. Notable among these is her 1958 Russia diary that describes her attendance at the 10th General Assembly of the International Astronomical Union in Moscow.

**See B1994-0002/062 (09)-(12) and /063.**

**SERIES XII Education**

1915 - 1931 0.7 m textual ; graphic

This series encompasses Dr. Hogg's postsecondary education including her undergraduate schooling at Mount Holyoke College culminating in her earning an A.B. (Magna Cum Laude) in 1926, her graduation from Radcliffe College with an A.M. in 1928 and a Ph.D. in 1931. The series is comprised mainly of course outlines, course and laboratory notes, term papers, examinations, miscellaneous school-related assignments as well as Mount Holyoke and Radcliffe memorabilia. It includes a copy of Dr. Hogg's Ph.D. thesis as well as a critique of it by Harlow Shapley. Some examples of elementary and secondary school notebooks and exercises are also present.

**See B1994-0002/064 - /066 and /067 (01)-(14).**

**SERIES XIII Biographical**

1935 - 1992 0.05 m textual

Includes autobiographical writings, short biographies and transcripts to several interviews.

**ACCESS:** Transcript to the Owen Gringrich interview is closed for 30 years from the time of Helen Hogg's death in 1993. All other records are open.

**See B1994-0002/067 (15) - (22)**

**SERIES XVI Estates and Finances**

1940 - 1991 0.12 m textual

This series documents Prof. Hoggs' role as executors of several estates including those of her mother, Carrie Douglass, her housekeeper, Louis Patton, her cousin, Beatrice Whiteside Howell and her friend, Dorothy Flint. There are also account books and dividend books showing her astute financial management.

Includes mainly correspondence re. estates, some papers of the deceased, wills, notices, account books.

**See B1994-0002/067 (23) - (26) and /068 (01) - (08)**

**SERIES XV Creative Writings**

ca. 192- - 199- .06 m textual

Includes short stories and poetry written by Dr. Hogg. Also included are some collected poems and a quotations book.

**See B1994-0002/068 (09) - (15)**

**SERIES XVI Sawyer-Douglass Family Papers**

18- - 1960 0.2 m textual

This series, made up from small items that were found while sorting through this accession, is evidence of Dr. Hogg's keen sense of family history. Most relate to Carrie Sawyer-Douglass and Walter Douglass, her mother and stepfather. There are also some notes on family history and a folder of 19th century documents. Perhaps the most interesting records are a series of daily diaries dated from 1901 to 1909 and 1924 to 1941, kept by Leonora Knapp Battles, a cousin and close friend of Carrie Sawyer.

**See B1994-0002/068 (16) - (23) and /070**

**SERIES XVII Memorabilia**

1905 - 1993 0.54 m textual ; graphic

Includes invitations, certificates, guest books, Helen Hogg's Baby Book, and two scrapbooks 1947-50 and 1952-1959. Also includes diplomas, awards and honorary degrees.

**See B1994-0002/071 and /081 for diplomas**

**SERIES XVIII Graphic records**

1906 - 1992 1.03 m.

Includes slides and photoprints documenting both Dr. Hogg's personal and professional life including family gatherings and events, trips, astronomical conferences, ceremonies, visits to various observatories. Also included are images she collected regarding the history of Astronomy as well as publicity shots of her taken for various publications.

Photographs, which belong to textual files, are not included in this series. Please see the note regarding these images in the Scope and Content section, p. 4.

**SLIDES**

1954 - 1985 680 lantern slides

These slides have been selected from her personal collection of over 30,000 images documenting mainly her family and friends as well as her numerous trips.

See item list, Appendix 4.

**PHOTOPRINTS**

ca. 1906 - 1992 241 photoprints

Includes colour and black and white prints grouped into the following and arranged chronologically within.

Family Photographs: Images of Helen as a baby and child growing up in Dunstable; snapshots of her and Frank in the 1930s and 1940s including images with their children in Richmond Hill; photos of her parents and Auntie Lenora with whom she grew up. Views of her grand children and great-grandchildren. Wedding portrait of Frank and Helen Hogg as well as more informal photograph of her and Dr. Priestly when they were married in 1985.

See **B1994-0002/005P (01) - (28)**  
**B1994-0002/008P (01)**

Formal Portraits and Publicity Shots: Includes portraits of Dr. Hogg taken at various stages of her life. Many of the publicity photos taken for publications feature Dr. Hogg at work at the Observatory the earliest being 1938 and the latest taken in 1991. There are also a few images documenting her time as a director of Bell Canada and her activities relating to the Noranda Lectures for EXPO.

**See B1994-0002/005P (29) - (46)**  
**B1994-0002/008P (02) to (03)**

Awards and Degrees: Images of Dr. Hogg receiving Honorary degrees from Mt Holyoke College and University of Lethbridge as well as being invested into the Order of Canada in 1969. Also includes receipt of other awards and honours including the dedication of the Helen Sawyer Hogg Observatory in Ottawa, 1989.

**See B1994-0002/005P (47) - (52)**

Astronomical Photographs: Includes views of the David Dunlap Observatory Staff (the earliest dates 1939); group photos and informal images documenting meetings and events of astronomical associations such as the Canadian contingent to the IAU meeting in Dublin in 1955, a reception of the RASC in 1958, the IAU 1961 meeting at Berkley, the IAU National Committee for Canada meeting in Toronto, 1964, Sir Charles Wright RCI lecture at the University of Alberta, 1965, meeting of the AAVSO in 1983 and several others; photos used in the RASC journal and other images of observatories and/or astronomical observations which were sent to her as a result of her popularity among the general public; some historical photographs including images of Harlow Shapley at work, portraits of J.S. Plaskett early director of the Dominion Astrophysical Observatory, and his successor Joseph Pearce and, of some significance, three group photos of meetings of Canadian and American astronomers ca. 1908-191-.

**See B1994-0002/005P (53) - (74)**  
**B1994-0002/006P**  
**B1994-0002/008P (04) - (08)**  
**B1994-0002/009P**  
**B1994-0002/010P (01) - (02)**

**SERIES XIX Sound Recordings**

1967 - 1979 0.07 m. 3 sound discs  
1 reel to reel  
1 cassette

Includes:

- /001S Interview of Dr. Helen Hogg by Frank E. Edmondson, a colleague and her successor at the National Science Foundation, done at the Montreal IAU meeting, August 16 1979. (49 min.) (See case file for further information).
- /002S Interview of Helen Hogg by Betty Kennedy, CFRB Toronto, 1968 (21.32 min.)
- /003S 2 L.P. discs entitled "Break Thru", produced in 1967 by the Anglican and United Churches featuring a discussion of questions about the future by leading scientists. Dr. Hogg's section is on "Planet Earth" and "Life on other Planets"
- /004S Flexi disc recording - not identified, possibly a speech by Frank Hogg or Helen Hogg for the RSC.

**SERIES XX Moving Images**

1977-1989 0.07 m 3 videos

Includes

- /001M Off air recording - Profile of Helen Hogg Tomorrow, Today / CBC Newsworld, Oct. 23, 28, 29 1989
- /002M Video wall slides and footage for the Helen Sawyer Hogg Observatory Dedication, 23 Sept. 1989
- /003M Hogg - Sesquicentennial convocation, University of Toronto, produced by the Media Centre, July 19 1977.

**FRANK S. HOGG SOUS-FONDS**

1922 - 1952

1.2 m

textual; graphic

**BIOGRAPHICAL NOTE**

Born in Preston Ontario and a graduate of the University of Toronto in 1926, Frank Scott Hogg was the first to be awarded a Ph.D. in astronomy from Harvard College. It was during his graduate studies that he met Helen Sawyer whom he married in 1930. After travelling to Europe and the Western United States on a Parker Travelling Fellowship visiting observatories, Dr. Hogg was offered a position at the Dominion Astrophysical Observatory in Victoria B.C., then under the direction of J.S. Plaskett. He and his wife Helen both undertook research at the D.O.A. until 1934 when they moved to the newly opened David Dunlap Observatory, where Frank Hogg became a lecturer.

Through the years, he rose through the ranks to become a professor of astronomy and finally head of the department and Director of the David Dunlap Observatory in 1946. His main interest lay in the radial velocity program of which he spent much of the time observing, measuring and computing data. During the war, he taught Air Navigation and is credited for inventing a two-star sextant intended to simplify navigation. Under his direction the D.D.O. undertook and completed many observing programs and a Ph.D. program was initiated. Unfortunately, Dr. Hogg did not live to see the first Ph.D. student graduate. He died of a heart ailment on New Years Day 1951, at the age of forty-six.

**SCOPE AND CONTENT**

Records in this sous fonds offer a good outline of the educational and professional achievements of Frank Scott Hogg. Correspondence, lecture notes and related teaching files, research notes and draft manuscripts of articles all document his professional career as an astronomer. There are also draft articles for his Toronto Star column which, after his death, was taken over by his wife.

Of special mention are the notes, reports, correspondence and blueprints relating to the invention of the two-star sexton, a device designed to simplify astronomical navigation (1940-1943). The project was supported by government grants and the working models, designed and built at the Dunlap Observatory by Dr. Hogg and Dr. R.K. Young, were extensively tested by the Armed forces during World War II. Two original sextants have survived: one is housed at the National Museum of Science and Technology in Ottawa, the other at the Royal Ontario Museum in Toronto.



Nearly half of the records in this sous-fond are Frank Hogg's student papers, documenting his undergraduate course work at the University of Toronto (1922-1926) and subsequent graduate research at Harvard University culminating in his earning the first astronomy Ph.D. from this institution (1926-1929). Course notes, laboratory exercise books, statements of academic standing and scholarships provide a record of the structure and content of his education over a seven-year period. Books III, IV and V of research observations used for his Ph.D. thesis have survived along with a copy of his thesis. Books I, II and VI of his Ph.D. research were acquired earlier by the University of Toronto Archives and can be found in accession B82-0026. There are also some photos that relate to his education including his graduation portrait from the University of Toronto (1925).

In terms of personal papers, there is a small sampling of correspondence that has been filed at the beginning with his professional correspondence. For the period after 1930, correspondence found in Series I and X of the Helen Hogg fond is far more extensive. There are a few files that show his involvement in the Presbyterian Church, the Lions Club, and the Richmond Hill District High School Board that he chaired from 1949-50. Some memorabilia and some biographical files complete this scant collection of his personal life.

**ASSOCIATED MATERIAL:** UTA Accession B82-0026

**See brief listing below:**

Box /072	Personal Correspondence Professional Correspondence Lecture notes and related files
/073	Two-Star Sextant Seminar and Research Notes Draft Articles Toronto Star Column
/074	Professional Association files Student course notes
/075	Student course notes
/076	Student course notes Observation books and collected data
/077	Observation books and collected data Thesis material Personal papers and Memorabilia Biographical notes and obituary
/001P (38)-(39)	Photographs

**RUTH J. NORTHCOTT SOUS-FONDS**

1932 - 1969

0.47 m

textual ; graphic

**BIOGRAPHICAL NOTE**

Ruth J. Northcott, long-time professional associate and close personal friend of Dr. Hogg, obtained her B.A. from the University of Toronto in 1934 and her M.A. from the same institution the following year (1935). She became a lecturer in astronomy at the University of Toronto in 1944, an assistant professor in 1954 and an associate professor in 1962, a position she held until her death in 1969. She was a member of the David Dunlap Observatory since its founding in 1935. She was also a member of the International Astronomical Union and the Royal Astronomical Society of Canada. In 1957 she became editor of that society's journal and of the observatory handbook. She was elected the third woman president of the society in 1963, and served in that post until 1965.

**SCOPE AND CONTENT**

The bulk of this sous fonds consists of records documenting Northcott's teaching activities covering nearly twenty-five years. It is principally comprised of lecture notes, laboratory exercises, tests and examinations, class observations and student lists encompassing the years 1945-69. The remainder of the sous-fonds contains correspondence with professional associations, primarily the R.A.S.C. and R.C.I., manuscripts, draft articles and scripts for radio programmes, as well as miscellaneous research materials. It includes a copy of Northcott's 1964 publication list.

**CUSTODIAL HISTORY**

Dr. Hogg was executor of Prof. Northcott's estate and took custody of her records at that time.

**ASSOCIATED MATERIAL:** UTA Accession B81-0031

**See brief listing below:**

Box /078	Professional Correspondence Lecture notes
/079	Laboratory Exercises Examinations Class lists Professional Association files
/80	Manuscripts and draft articles Research materials Miscellaneous files and publication list

**CLARENCE AUGUSTUS CHANT SOUS-FONDS**

193- - 194- 0.07 m. textual ; graphic

**BIOGRAPHICAL NOTE:**

Long considered the founder of astronomical studies in Canada, Dr. Clarence Augustus Chant graduated from Math and Physics in 1890 from the University of Toronto. The following year he began teaching and, under his guidance, the department of astrophysics was established in 1904 of which he remained the head until his retirement in 1935. He was instrumental in promoting the expansion of the Royal Astronomical Society of Canada to centres throughout Canada and was the driving force behind the campaign to acquire a large telescope for Canadian astronomical research. His efforts resulted in the building of the David Dunlap Observatory in Richmond Hill. Opened in 1935, it was the second largest reflecting telescope in North America and is still the largest in Canada. Dr. Chant died at the age of 92 in 1956.

**SCOPE and CONTENT**

Includes mainly photographs collected for his book "Our Wonderful Universe" first published in 1928 and revised in 1940. There is also some related correspondence and notes that indicate that both Frank and Helen Hogg had assisted Dr. Chant in this project. Some of the images may have been used elsewhere.

Also found in this sous-fond are two astronomy exercises or lectures identified as having belonged to Dr. Chant and a file on the "Gifford Sundial" (1941).

**RELATED MATERIAL:** A74-0027 University of Toronto. Department of Astronomy - This accession contains most of what has survived of Dr. Chant's personal records.

**For Textual Files, See Box /080 (10)-(12)**

**For Graphic Records, See Box /007P**

## APPENDIX 1 : General Professional Correspondence

Box	File	Title	Date
/001	(01)	Ainley, Marianne	1991-1992
	(02)	Arts of Management Advis. Council	1968-1969
	(03)	Assoc. for Advancement of Science in Canada.	1986-1987
	(04)	Asteroid Sawyer Hogg	1984-1985
	(05)	Astronomical Society of the Pacific	1983-1988
	(06)	Baade, Walter	1954
	(07)	Barber Award	1980
	(08)	Batten, Alan H.	1985-1990
	(09)	Biographical publishing	1975-1981
	(10)	Bok, Bart J.	1956-1958
	(11)	Bart J. Bok Memorial Fund	1985
	(12)	Bootees file	1990-1991
	(13)	Braun, Julie	1989-1990
	(14)	CBC Series and Maffei Galaxies	1971
	(15)	Canadian books	1952-1975
	(16)	Canadian Science Writers' Assoc.	1982-1989
	(17)	Canadian Womens' Press Club	1965-1967
	(18)	City of Toronto Award	1985
	(19)	Chu Yu-Hua	1965-1986
	(20)	Columbo, John Robert	1987
	(21)	Comet Kohoutek	1973
	(22)	Copp Clark Pitman Ltd.	1991
	(23)	Coutts, Christine	1968-1989
	(24)	Dickinson, Terence	1977-1991
	(25)	Henry Draper Memorial Centennial Symposium	1985-1986
	(26)	Donations, miscellaneous	1974-1991
	(27)	Donations of books and manuscripts	1978-1985
	(28)	Douglas, Alice Vibert	1984-1989
	(29)	Edmonson, Frank K.	1978-1979
	(30)	Edmonton Space Sciences Centre	1984-1987
	(31)	ETV material	1970-1971
	(32)	Exhibits	1974-1975
/002	(01)	Fellowship Towers	1989-1990
	(02)	Flint, Dorothy	1974-1988
	(03)	Foster Ontario	1981
	(04)	Frank S. Hogg Memorial Scholarship	1945-1987
	(05)	Frye, Northrup	1989-1990
	(06)	Graduate Magazine	1985-1987
	(07)	Halley's Comet	1985-1986
	(08)	Hayden Planetarium Series	1964-1966
	(09)	Heaton, Mona	1979-1982
	(10)	Helen Hogg Day	1991
	(11)	Helen Sawyer Hogg Lectures	1984-1990
	(12)	Helen Sawyer Hogg Observatory	1989-1990
	(13)	Helen Sawyer Hogg Observatory	1989

## APPENDIX 1: General Professional Correspondence

Box	File	Title	Date	
/002	(14)	Herzberg Lecture material	1974	
	(15)	Hill, F. Margarite	1985-1989	
	(16)	Honours and Awards	1980-1983	
	(17)	International Federation of University Women	1947-1975	
	(18)	Institute for the History and Philosophy of Science and Technology	1980-1984	
	(19)	Jaschek, C.	1976-1980	
	(20)	Johnson, Hugh M.	1975-1977	
	(21)	Joy, Alfred H.	1942-1949	
	(22)	Kennedy, J.E.	1954-1981	
	(23)	Kennedy, J.E.	1970-1986	
	(24)	Kennedy, J.E.	1985-1992	
	(25)	Kennedy, J.E.	1990	
	(26)	Dorothea Klumpke-Roberts Award	1982-1983	
	(27)	Kukarkin, B.V.	1970-1976	
	/003	(01)	Laird, Elizabeth	1956-1967
		(02)	Lectures (1)	1950-1964
		(03)	Lectures (2)	1951-1960
(04)		Lectures (3)	1957-1966	
(05)		Lectures (4)	1967-1979	
(06)		Letters to Grade School Children	1992	
(07)		Liller, Martha	1976-1984	
(08)		Lowell Public School	1992	
(09)		McDonald Observatory	1959	
(10)		McMaster University	1975-1976	
(11)		Mount Holyoke College	1967-1976	
(12)		Mount Holyoke College	1971-1983	
(13)		Mount Holyoke - Reunion	1990-1992	
(14)		National Radio Astronomy Observatory	1980	
(15)		NATO - Globular Cluster Institute	1978	
(16)		Ruth Northcott Fund	1963-1973	
(17)		Northern Electric	1968-1969	
(18)		Nowack, Paul	1974-1977	
(19)		Pentland, George	1950-1952	
(20)		Order of Canada - Award	1967-1976	
(21)		Order of Canada - Award	1976	
(22)		Order of Canada - Award	1976-1989	
(23)		Order of Canada	1985	
(24)		Order of Canada	1990	
(25)		Pearce, Joseph	1956	
(26)		Planetariums	1952-1979	
(27)		Planetariums	1976-1987	
(28)		Photographs	1967-1983	
(29)		Publications	1984-1991	

## APPENDIX 1: General Professional Correspondence

Box	File	Title	Date
/004	(01)	Queen Elizabeth II Telescope	1964-1968
	(02)	Queen's Silver Jubilee Medal	1978
	(03)	Radcliffe College	1977-1983
	(04)	Radcliffe College	1983
	(05)	Ralph, John C.	1977-1978
	(06)	Reinhardt, Carl	1959
	(07)	Remeis Observatory	1962
	(08)	Riehl, Josephine	1974
	(09)	Rosino, L.	1962-1976
	(10)	St. Mary's University	1980-1985
	(11)	Scaria, K.K.	1986
	(12)	Science North	1990-1992
	(13)	Science Fair	1963
	(14)	Scientists and Engineers for Energy and Environmental Security	1976-1985
	(15)	Shapley, Harlow (1)	1930-1953
	(16)	Shapley, Harlow (2)	1953-1972
	(17)	Space Telescope Science Institute	1986-1990
	(18)	Society of the Sigma Xi (1)	1969-1970
	(19)	Society of the Sigma Xi (2)	1968-1970
	(20)	Society of the Sigma Xi (3)	1968-1969
	(21)	Society of the Sigma Xi (4)	1968-1969
	(22)	Supernova Shelton	1987
	(23)	Terzan, A.	1966-1978
	(24)	Trent University - visit	1977
/005	(01)	Total Eclipse	1963
	(02)	Total Eclipse	1970-1972
	(03)	University of Lethbridge	1985-1992
	(04)	University of Lethbridge	1986-1992
	(05)	University of Toronto - Breakthrough Campaign	1988-1990
	(06)	University of Toronto - Dedication of telescope in Chile	1992
	(07)	Dedication of telescope in Chile	1992
	(08)	U of T. Huntsman Royal Lunch Club	1975-1990
	(09)	U of T. President's Committee	1973-1990
	(10)	U of T. Special Convocation	1977
	(11)	U of T. University College	1988-1992
	(12)	U of T. Sigma Xi Chapter	1984
	(13)	U of T. 25 Year Club	1990-1991
	(14)	U of T. University Archives	1974-1976
	(15)	University of Waterloo	1980-1987
	(16)	University of Waterloo	1985-1988
	(17)	University of Waterloo - Faculty of Science Foundation	1980-1990
	(18)	University of Waterloo - Faculty of Science Foundation	1984-1986

## APPENDIX 1: General Professional Correspondence

Box	File	Title	Date	
/005	(19)	University of Waterloo - Faculty of Science Foundation	1991-1992	
	(20)	University Women's Club	1982-1987	
	(21)	Van Agt, Steven	1969-1977	
	(22)	Vernon Science and Discovery Centre	1991	
	(23)	Webb, Michael	1990-1992	
	(24)	Webb, Michael - final draft	1991	
	(25)	Webb, Michael - re. reviews	1991-1992	
	(26)	Webb, Society	1969-1980	
	(27)	Wehlau, Amelia (1)	1963-1969	
	(28)	Wehlau, Amelia (2)	1963-1983	
	/006	(01)	White, Raymond E.	1980-1985
		(02)	Wigham District Museum	1988-1981
		(03)	Wiley and Sons Ltd.	1956-1959
(04)		Wiley and Sons	1985	
(05)		Women in Science	1973-1985	
(06)		Women's College Hospital	1990-1991	
(07)		Yost, Edna	1958-1968	
(08)		Misc. Correspondence	n.d.	
(09)		Misc. Correspondence	1920s	
(10)		Misc. Correspondence	1930s	
(11)		Misc. Correspondence	1940s	
(12)		Misc. Correspondence	1950s	
(13)		Misc. Correspondence	1950s	
(14)		Misc. Correspondence	1950s	
(15)		Misc. Correspondence	1960s	
(16)		Misc. Correspondence	1960s	
(17)		Misc. Correspondence	1960s	
(18)		Misc. Correspondence	1960s	
/007	(01)	Misc. Correspondence	1970s	
	(02)	Misc. Correspondence	1970s	
	(03)	Misc. Correspondence	1970s	
	(04)	Misc. Correspondence	1980s	
	(05)	Misc. Correspondence	1980s	
	(06)	Misc. Correspondence	1980s	
	(07)	Misc. Correspondence	1980s	
	(08)	Misc. Correspondence	1980s	
	(09)	Misc. Correspondence	1990s	
	(10)	Misc. Correspondence	1990s	

## APPENDIX 2 : Professional Associations

Box	File	Title	Date	
<b>American Association for the Advancement of Science</b>				
/008	(01)	Advisory Committee	1980	
	(02)	Advisory Committee	1980-1981	
<b>American Astronomical Society</b>				
/008	(03)	Astronomical Newsletters	1942-1947	
	(04)	Committee on Education	1946-1968	
	(05)	Notes, Committee meeting	1956	
	(06)	Nominating Committee	1959	
	(07)	Symposium - Globular Clusters	1959	
	(08)	Correspondence and Minutes	1966	
	(09)	Council Minutes and Correspondence	1966-1968	
	(10)	Prize Fund	1967-1969	
	(11)	Annie J. Cannon Prize Committee	1966-1971	
	(12)	Annie J. Cannon Prize and Prize Committee	1966-1971	
	(13)	Annie J. Cannon Prize Committee	1971-1972	
	(14)	Annie J. Cannon Prize and Harlow Shapley Fund	1972	
	(15)	Henry Norris Russell Lectures	1969-1971	
	<b>American Association of Variable Star Observers</b>			
	/008	(16)	Membership List	1935
(17)		Conferences	1952-1954	
(18)		Lecture Notes and Correspondence	1961-1971	
(19)		Search Committee	1972-1974	
(20)		General	1974-1989	
<b>Canadian Astronomical Society</b>				
/009	(01)	Correspondence and Memoranda	1971-1972	
	(02)	Correspondence and Memoranda	1972	
	(03)	Correspondence and Memoranda	1972-1973	
	(04)	Correspondence and Memoranda	1973-1974	
	(05)	Notices	1972-1988	
	(06)	General Meeting, Montreal	1971-1972	
	(07)	Nominating Committee	1972	
	(08)	Seal Committee	1973-1974	
	(09)	PAAC Committee and Council Correspondence and Minutes	1974-1975	
	(10)	Planetarium Committee	1974-1975	
	(11)	Congress with Canadian Association of Physicists	1983	



## APPENDIX 2: Professional Associations

Box	File	Title	Date
<b>International Astronomical Union</b>			
/009	(12)	Commission 27 on Variable Stars	1952-62
	(13)	Commission 27	1962
	(14)	Commission 27	1961-1964
	(15)	Commission 27 - Report	1965-1966
	(16)	Commission 27 - Correspondence	1967
	(17)	Commission 27 - Report	1969-1970
	/010	(01)	Commission 27 - Reports and Memos
(02)		Commission 27 - Reports and Memos	1972-1973
(03)		Commission 27 - Report	1981
(04)		Sub-Committee 27B on Variable Stars in Globular Clusters - Oosterhoff correspondence	1956-1958
(05)		Sub-Committee 27B - Reports, Correspondence and Memoranda	1958-1961
(06)		Sub-Committee 27B	1958-1962
(07)		Sub-Committee 27B - Correspondence	1961
(08)		27B - Magellanic Cloud Committee	1962
(09)		Commission 37 - Star Clusters	1954-1957
(10)		Commission 37 - Report	1967
(11)		Commission 37	1980-1982
(12)		Symposium #80, 1977	1976-1977
(13)		Symposium #85, 1979	1976-1979
(14)		Symposium #126, 1986 "Shapley Symposium"	1986
(15)		Symposium #126 - Paper	1986-1990
(16)		Symposium #126	1985-1986
(17)		Colloquium #21	1971-1972
(18)		Colloquium #21	1972
(19)		Colloquium #68	1981
(20)		Colloquium #69	1981
(21)		Colloquium #82	1984
/011	(01)	General Assembly, Dublin	1955
	(02)	General Assembly, Moscow	1957-1958
	(03)	General Assembly, Hamburg	1964
	(04)	General Assembly Reports	1970-1974
	(05)	General Assembly, Baltimore	1988
	(06)	National Committee for Canada	1935-1959
	(07)	National Committee for Canada	1952-1962
	(08)	National Committee for Canada	1959-62
	(09)	National Committee for Canada	1960-1963
	(10)	National Committee for Canada	1963
	(11)	National Committee for Canada	1963-1964
	(12)	National Committee for Canada	1964-1970

**APPENDIX 2: Professional Associations**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Date</b>
<b>National Research Council</b>			
/011	(13)	Associate Committee on Astronomy	1966
	(14)	Associate Committee on Astronomy	1970-1971
	(15)	Associate Committee on Astronomy	1970-1974
	(16)	Associate Committee on Astronomy	1970-1974
/012	(01)	Associate Committee on Astronomy	1971-1973
	(02)	Associate Committee on Astronomy	1971-1974
	(03)	Associate Committee on Astronomy Proposal for Hawaii Telescope	1972
	(04)	Copernicus Committee	1972-1973
	(05)	General	1979-1992
<b>National Science Foundation</b>			
	(06)	Correspondence	1953-1957
	(07)	Correspondence	1955-1956
	(08)	Correspondence	1956-1960
	(09)	Correspondence	1962
	(10)	Reports	1957
<b>Royal Astronomical Society of Canada</b>			
	(11)	General Council - Minutes and Correspondence	1941-1946
	(12)	Lectures - 20th Century Astronomy	1943
	(13)	General Council Business	1946-1962
	(14)	Journal Submission	1947
	(15)	Correspondence	1957-1968
	(16)	Journal and Handbook	1958
	(17)	Executive and Council Minutes	1958-1962
	(18)	Annual Meetings	1958-1963
/013	(01)	Honorary Members	1959
	(02)	Council	1956-1962
	(03)	Council Meeting and corres.	1960-1962
	(04)	Eclipse material	1962-1963
	(05)	Centennial and Editorial Cmte.	1965-1970
	(06)	General Assembly	1965
	(07)	Finance Committee	1969-1970
	(08)	Honorary President	1977
	(09)	Honorary President	1977
	(10)	Honorary President	1977
	(11)	Joint Meeting of the CASCA and RASC. Bluenose General Assembly	1980
	(11a)	Historical Committee	1980
	(12)	New Centre Kitchener-Waterloo	1980
(13)	Victoria General Assembly	1981	

**APPENDIX 2: Professional Associations**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Date</b>	
<b>Royal Astronomical Society of Canada (cont'd)</b>				
/013	(14)	Draft manuscripts and reports	1981-1989	
	(15)	Congres Astronomique	1983	
	(16)	Library Committee	1984-1986	
	(17)	Honorary Member	1987	
	(18)	Toronto Centre member list	n.d.	
	(19)	Toronto Centre draft article and report	1939-1940	
	(20)	Toronto Centre minutes and corres.	1961-1977	
	(21)	Toronto Centre minutes and corres.	1970-1986	
	/014	(01)	Toronto Centre membership certificate	1973
(02)		"Business (Personal File)"	1957-1970	
(03)		"Business (Personal File)"	1963-1988	
<b>Royal Canadian Institute</b>				
	(04)	Council minutes and corres.	1954-1961	
	(05)	Council minutes, agendas and corres.	1961-1969	
	(06)	Council minutes and agendas, 114th and 115th Sessions	1962-1965	
	(07)	Council minutes, agendas and corres.	1963-1964	
	(08)	Council minutes, corres. and draft report	1963-1965	
	(09)	Council agendas and memoranda	1964-1965	
	(10)	Council minutes and corres., 116th Session	1964-1965	
	(11)	Council minutes, agendas and memoranda	1964-1966	
	(12)	Council minutes, 117th Session	1965-1966	
	(13)	Council minutes and corres.	1966-1969	
	(14)	Council minutes, 119th Session	1967-1968	
	/015	(01)	By-Law Revision	1964
		(02)	Summer Session	1964-1965
		(03)	Edmonton Lectures	1965
(04)		Misc. correspondence	1965-1985	

## APPENDIX 2: Professional Associations

Box	File	Title	Date	
<b>Royal Society of Canada</b>				
/015	(05)	Misc. corres. and memoranda	1955-1961	
	(06)	Council and Executive minutes	1959-1961	
	(06)	Council minutes and corres.	1962	
	(07)	Council minutes and corres.	1962-1963	
	(08)	Correspondence and agendas	1962-1963	
	(09)	Memoranda and correspondence	1963-1968	
	(10)	Interdisciplinary Division, correspondence and minutes.	1969	
	(11)	Council agendas, corres.	1974-1975	
	(12)	Council minutes and corres.	1975	
	/016	(01)	Corres. and memoranda	1970-1992
		(02)	Presidential Address	1961
		(03)	Corres. and membership lists (1)	1966-1970
(04)		Corres. and membership lists (2)	1966-1970	
(05)		Reprint Volume and related corres.	1974-1978	
(06)		Academy of Sciences, Editor	1974	
(07)		Reprint Volume, misc. corres.	1974-1976	
(08)		Reprint Volume, text and comments	1975-1976	
(09)		Reprint Volume corres.	1975-1976	
(10)		Publications and Plans Committee	1958-1960	
(11)		Program Committee (1)	1960-1961	
(12)		Program Committee (2)	1960-1961	
(13)		Reorganization Committee	1960-1961	
(14)		Section III Committee	1973-1974	
(15)		Council - Section II Committee	1974	
(16)		Erindale Planning	1973-1974	
(17)		Interdisciplinary Division	1978-1985	
/017	(01)	Correspondence: re Selection of Fellows	1949-1960	
	(02)	Nominations to Fellowship	1960	
	(03)	Medals and Scholarships	1958-1962	
	(04)	Henry Marshall Tory Medal	1961	
	(05)	Thomas U. Eadie Medal	1974	
	(06)	Hannah Medal	1987	

## APPENDIX 3 : Articles, manuscripts, addresses

Box	File	Title	Date
<b>Bibliographies and Lists of Publications</b>			
See Box /017, files (07)-(10)			
<b>General articles, addresses, contributions to encyclopedias</b>			
See Box /017, Files (11)-(26) and Boxes /018, /019 and /020, (01)-(16)			
/017	(11)	"A Child's Primer of the Skys"	1939
	(12)	Television and Radio Scripts and Correspondence	1941-1986
	(13)	Review - "The Royal Society Newton Tercentenary Celebrations"	1947
	(14)	"The Light and the Flame"	1953-1957
	(15)	"Stars that travel together" RCI lecture	1957
	(16)	Handerbuch der Physik, "Galactic Clusters"	1958
	(17)	Handerbuch der Physik, Publishers instructions	1957-1958
	(18)	Handerbuch der Physik, draft "Star Clusters"	ca.1958
	(19)	Handerbuch der Physik	1959
	(20)	Handerbuch der Physik, tables, diagrams and draft	1959
	(21)	Handerbuch article, post publication	1959-1966
	(22)	Harper Encyclopedia	1960
	(23)	Talk - "Astronomy in Canada Today"	1961
	(24)	Review - "The Discovery of Neptune"	ca.1962
	(25)	"The Historical Importance of Astronomy"	1963
	(26)	"A Canadian Astronomer Looks Backward and Forward"	1964
/018	(01)	Shapley Festschrift (1)	1965
	(02)	Shapley Festschrift (2)	1965
	(03)	"Astronomy and Colour"	1966
	(04)	"Astronomy and the David Dunlop Observatory, 1935-1967"	1966-1967
	(05)	Memorial Lecture - "Some Contributions of R.M. Petrie to the Study of Group Stars"	1966-1967
	(06)	Drafts for D.D.O. history, J.F.Heard and H.S.Hogg	1967
	(07)	Globular Cluster talks, Calgary and McMaster	1967, 1975
	(08)	McGraw-Hill Encyclopedia - "Star Clusters"	1959-1970
	(09)	McGraw-Hill	1965
	(10)	McGraw-Hill	1967
	(11)	McGraw-Hill	1967-1968
	(12)	McGraw-Hill (1)	1969-1970
	(13)	McGraw-Hill (2)	1969-1970
	(14)	McGraw-Hill	1970
	(15)	Richmond Hill Naturalists	1968-1971
	(16)	Script - Ont. Educational Communications Authority	197-
	(17)	Talks - Bell Canada	1970

## APPENDIX 3: Articles, manuscripts, addresses

Box	File	Title	Date
/018	(18)	"Lunar Craters Names for Canadians"	1970-1972
	(19)	"Lunar Craters Names for Canadians"	1970
	(20)	Encyclopedia Britannica - "Star Clusters and Stellar Associations" (1)	1970-1971
	(21)	Encyclopedia Britannica - "Star Clusters and Stellar Associations" (2)	1970-1971
	(22)	Address - "Variable Stars in Globular Clusters"	1972
	/019	(01)	Encyclopedia Britannica
(02)		"Patterns and Problems of Growth"	1970-1974
(03)		Review - "A History of Time Keeping in Canada"	1975
(04)		"Popularizing Astronomy", draft	ca.1976
(05)		"The Canadian Telescope in Chili", draft report	1976
(06)		Canadian Club Talk	1976-1977
(07)		Editing - People and Places	ca.1978-1979
(08)		"The History of Variable Stars, 1850-1920"	1978-1979
(09)		"The History of Variable Stars, 1850-1920"	1979
(10)		"Forty Years with an Astronomy Column"	1979-1981
(11)		General History of Astronomy	1977-1978
(12)		General History of Astronomy	1979-1983
(13)		General History of Astronomy, "Variable Stars"	1983
(14)		"Looking Back at the Observers Handbook"	1980
(15)		Queen's Quarterly, "The Sounds of Distance Space"	1979-1980
(16)		Address - St. Mary's University	1981
(17)		"There's more to Gravity than the Drop of an Apple"	1982
/020	(01)	"Total Solar Eclipse, 1869"	1982
	(02)	"Two Centenaries: The Royal Society of Canada and The Last Transit of Venus, 1882"	1982
	(03)	Address - University Women's Club	1983
	(04)	New Canadian Encyclopedia	1983
	(05)	Review - "Cecilia Payne-Gaposchkin: An Autobiography and Other Recollections"	1984-1985
	(06)	Queen's Quarterly, "Halley's Comet"	1985
	(07)	Guide to Amateur Astronomy	1986
	(08)	Talk - "Reflections of an Astronomer"	1984-1985
	(09)	McGraw-Hill Hyadas	1984-1989
	(10)	R. Bishop and Observer's Handbook	1984-1990
	(11)	R. Bishop and Observer's Handbook	1985-1989
	(12)	Review - "Evolution of Canadian Astronomy"	1986
	(13)	OISE Talk - Conference on Women of Achievement	1987
	(14)	"Memories of the Plasket Era..."	1987-1988
	(15)	"Memories of the Plasket Era..."	1988
	(16)	Talk at Hart House	1991

## APPENDIX 3: Articles, manuscripts, addresses

Box	File	Title	Date
<b>Obituaries</b>			
/020	(17)	C.A. Chant	1956-1957
	(18)	Anne Sewell Young	1948-1978
	(19)	Gerald M. Clemence	1975
	(20)	John F. Heard	1976
	(21)	Joseph A. Pearce	1989-1990
	(22)	Peter Millman	1991
<b>Academic Papers on Star Clusters</b>			
/021	(01)	"Periods of 36 Variable Stars in Four Globular..."	ca.1931
	(02)	"132 New Variable Stars in Five Globular Clusters"	1938
	(03)	"Variable Stars in Globular Cluster Messier 80"	1942
	(03a)	"Distribution of Periods of Cluster Type Variables in Globular Star Clusters"	1941
	(04)	"The Dimensions of the Galaxy as Defined by..."	1945
	(05)	"The Dimensions of the Galaxy as Defined by..."	1945
	(06)	"Two Ru Tauri Type Variables in Globular Clusters"	1949
	(07)	"Compendium of Astronomy, Stars and Stellar..."	1955-1959
	(08)	"Variable Stars in Star Clusters", Pres. Address	1959
	(09)	"Photometric Distances of Galactic Clusters"	196-
	(10)	"Variable Instar Clusters" ASAP Leaflet	1961
	(11)	"Variables in Globular Clusters"	1961-1967
	(12)	"Catalogue of Star Clusters and Associations"	1962-1966
	(13)	"The Challenge of Variable Stars in Globular..."	1963
	(14)	"The Lure of Variable Stars in Globular Clusters"	1967
	(15)	"A Probable Nova in Globular Cluster Messier 14"	1964
	(16)	"The Light Curves of Forty Variables in ..."	1965
	(17)	"Period of Changes in RR Lyrae Variables..."	1967-1968
	(18)	Correspondence re. Variables Papers	1972-1978
	(19)	"Report on Variable Stars in Globular Clusters"	1975
	(20)	"The Bright Variable Stars in Messier 5"	1977
	(21)	"The Bright Variable Stars in Messier 5"	1977
	(22)	"Variable Stars in the Globular Cluster Messier 19"	1977
	(23)	"Variable Stars in the Globular Cluster NGC 6934"	1979
	(24)	"Variable Stars"	1980
	(25)	NGC 6039. Manuscript and Research Notes	1981
	(26)	"Variable Stars in Globular Clusters"	1983
	(27)	"Period Changes for Variable in M28"	1985
	(28)	"Variable Stars in Globular Cluster Messier 28"	1986
	(29)	"The Centennial of the NGC 1988"	1988
	(30)	"Observations of Variable Stars in ... M80"	1989

**APPENDIX 3: Articles, manuscripts, addresses**

<b>Box</b>	<b>File</b>	<b>Title</b>	<b>Date</b>
<b>Bibliography and Catalogue of Star Clusters</b>			
/022	(01)	Catalogue of 1116 Variable Stars in Globular Clusters	1938-1939
	(02)-(07)	Bibliography of Individual Star Clusters	1947
	(08)-(11)	Catalogue of Variable Stars in Globular Clusters, 2nd edition	1952-1958
/023	(01)-(04)	Bibliography of Individual Star Clusters, First Supplement	1961-1963
	(05)-(11)	Third Catalogue of Variable Stars in Globular Clusters	1956-1972
	(12)-(17)	Fourth Catalogue of Variable Stars in Globular Clusters	1978-1990
<b>Contributions to "Out of Old Books"</b>			1946-1963
See Box /024, Files (01)-(08)			
<b>"The Stars Belong to Everyone"</b>			1960-1991
See Box /024, Files (09)-(16) and Box /025			
<b>Toronto Star Column</b>			
/027		Draft articles, Correspondence and Subjects Lists	1952-1990
/028		Scrapbook of Columns	1941-1955
/029		Scrapbook of Columns	1956-1963
/030		Scrapbook of Columns	1965-1977
/031	(01)	Scrapbook of Columns	1978-1991
<b>Miscellaneous Writings</b>			1935-1978
See Box /031, Files (02)-(05)			
<b>Reprints</b>			
See Box /031, Files (06)-(19) and Box 32			1927-1991



APPENDIX 4: Slides

Box	Item	Description	Date Range	
002P	A28a	Dunstable, 1955	Spring 1954	
	A30b	Dunstable, 1955		
	A31b	Groton		
	A33b	Mt. Holyoke College, Observatory		
	A34a	Smith, Observatory		
	A35a	Oak Ridge, Harvard telescope		
	A35b	Oak Ridge, Radio telescope		
	A51b	Lake Winnepesaukee, Hoggs at Hazen's		
	A55a	Lake IAU Building		
	A80a	Meudon, Observatory		
				Sept. 1955 - June 1956
	A90a	Richmond Hill DDO party		
	A90b	Washington, NSF across Lafayette Park		
	A93b	Richmond Hill, Thanksgiving colours, 98 Richmond		
	A94a	Richmond Hill, Big dome in fall		
	A96a	Richmond Hill, David & James, colours, 98 Richmond		
	A100b	Naval Observatory domes		
	A101a	Washington, Naval Observatory thru tree		
	A102a	Washington, Naval Observatory Dome of 26"		
	A110b	Cambridge, Dr. Shapley		
	A113a	Amherst, Green and Linnell, 18"		
	A114a	South Hadley, JPW and Jocelyn		
	A115a	Troy, Rennselaer Observatory & Marg Mayall		
	A115b	Troy, Rennselaer Observatory & Marg Mayall		
	A116a	Troy, AAS, Don MacRae, Don Morton		
	A134b	Washington, NSF Advisory panel		
	A136a	Washington, NSF advisory panel with statue		
	A137b	Washington, Four of Radio Astronomy panel		
	A138a	Washington, Four of Radio Astronomy panel and HSH		
	B05a	Berkeley Campus		
	B08a	Berkeley Campus Observatory staff		
	B09b	Berkeley Campus Observatory, good		
	B14a	Mt. Hamilton, Dr. Shane		
	B14b	Mt. Hamilton Dome thru fog		
	B17a	Central Calif., Lick Astronomers		
	B21a	Pasadena, Astronomers		
	B25b	Cal Tech Obs., Meinel		
	B26b	Pasadena, NAO Panel		
	B27a	Pasadena, NAO Panel		
	B28a	Pasadena, Menzel, Whitford, Goldberg, walking		
	B29a	Pasadena, Mt. Wilson		
	B30a	Pasadena, Mt. Wilson staff		
	B35a	Pasadena, Cal Tech Solar Furnace		

APPENDIX 4: Slides

Box	Item	Description	Date Range
			Sept. 1955 - June 1956
002P	B36a	Pasadena, Cal Tech Obs	
	B46b	Flagstaff, Lowell's tomb, Wreath & Slipper	
	B47a	Flagstaff, View from Mars Hill	
	B48b	Flagstaff, Lowell Astronomers	
	B49a	Flagstaff, Lowell staff	
	B49b	Flagstaff, Lowell seeing towers	
	B50a	Flagstaff, Adel's Solar Obs.	
	B50b	Flagstaff, Adel and assistant	
	B51a	Flagstaff, U.S. Naval & Art Hoag	
	B53b	Flagstaff, Meteor Crater parking	
	B55a	Flagstaff, Meteor Crater from N rim	
	B56b	Flagstaff, Meteor Crater & Hoag	
	B59b	Flagstaff, Meteor Crater, Center from S rim	
	B64a	Phoenix, NAO headquarters & Meinel	
	B71a	Tucson, Domes of Steward & Carpenter	
	B76a	Tucson, Campus at U of Arizona	
	B84a	Tucson, Kitt Peak	
	B89a	Columbus, Ohio State, model roof	
	B89b	Columbus, Ohio State, model of big array	
	B90a	Columbus, Ohio State, roof - instrument	
	B91a	Columbus, Kraus array	
	B91b	Columbus, Kraus array, excellent	
	B93b	Columbus, Formal picture AAS.	
	B94a	Columbus, Aller, Calder, Spitz	
	B94b	Columbus, Heard, Beals at array	
	B95a	Columbus, Array & astronomers	
	B95b	Columbus, Array & astronomers	
	B99a	Charlottesville, Astronomers, Hickmann, etc.	
	B99b	Charlottesville, Bok and Morgan	
	B100a	Charlottesville, Nassau & Edmondson	
	B101a	Charlottesville, Luyten, Bok, spring colors	
	B102b	Charlottesville, Obs with Oswalds	
	B104a	Charlottesville, Obs	
	B108b	Washington National Academy of Science	
	B126a	Yorklyn, Spitz Lab	
	B128b	Harvard, Waterman going to dedication	
	B130a	Harvard, 60' telescope	
	B130b	Harvard, 60' telescope, light exposure	
	B131a	Harvard, Menzel on platform	
	B131b	Harvard, Waterman on platform	
	B132a	Harvard, Pusey on platform	
	B132b	Harvard, Shapley taking bow	
	B133a	Harvard, Notables on platform	
	B134a	Harvard, 60', excellent	
	C20a	Philadelphia, Astronomers at University	

APPENDIX 4: Slides

Box	Item	Description	Date Range
			Sept. 1955 - June 1956
002P	C21b	Philadelphia, U of Pa Science Building	
	C22b	Philadelphia, Flower and Cook Observatory	
	C23a	Philadelphia, Flower and Cook Observatory	
	C24b	Philadelphia, Group at Flower and Cook Dedication	
	C26b	Philadelphia, Astronomers in courtyard	
	C27a	Philadelphia, Schwarzschild, etc.	
	C27b	Ottawa, McDonalds	
	C28a	Ottawa, Covington, Millman	
	C29a	Ottawa, NRC Radar Dome	
	C29b	Ottawa, Radio Tower	
	C30b	Ottawa, Covington and array	
	C31a	Ottawa, Covington and paraboloids	
	C31b	Ottawa, Covington paraboloid	
	C38a	Richmond Hill, Dominion Day group	
	C43b	Ottawa, Millmans	
	C53a	Edmonton, Family of 3	
	C56a	Edmonton, Irvings at University	
	C57a	Edmonton, University of Alberta Observatory	
	C71a	Victoria Astronomers at cottage	
	C71b	Victoria Steering committee	
	C74b	Victoria Observatory front	
	C75b	Victoria Dome and office	
	C77a	Victoria, Mrs. J.S.P., Pearce, HSH	
	C79a	Victoria, Mrs. J.S.P., Pearce, van B	
	C79b	Victoria, Final group of astronomers	
			Fall 1957
	C97a	Dunstable, Family group	
	C107a	Smith College, Dr. Shapley	
	C108b	Lynchburg, Conf. Start, Calder, Wyatt, Hill, Chamberlain	
	C110b	Randolph Macon Conference Group, blossoms	
	C111a	Randolph Macon Conference Group, blossoms	
	C112a	Randolph Macon Observatory	
	C112b	Randolph Macon Walter, Aunt Mary, Mother, Effie	
	C114b	Mt. Holyoke Campus	
	C117b	John Payson Williston Observatory and Jocelyn	
	C120b	Mt. Holyoke College, Last Sunday at MHC	
	C123a	Queen's University, Graduation, David & his mother	
	C126b	Queen's Radio Observatory with three boys	
	C127a	Queen's Radio Picnic 8 at Green Roofs	
	C127b	Queen's Radio Picnic 8 at Green Roofs, seated	
	C132b	Ottawa, Dominion Obs.	
	C134b	Don Mills, 42 Cedarbank Cres.	
	C137b	Hollis, N.H., Lovejoy Nursing Home, Mrs. L. & Mother	

APPENDIX 4: Slides

Box	Item	Description	Date Range
			1957 - Dec.'59
002P	D12a	Richmond Hill, Radio astronomers, Seeger	
	D18a	Richmond Hill, Grandma & MacDonalds	
	D20b	Richmond Hill, Grandma, David, Carol, James	
	D26a	Whiten Obs, Sally Hill, Shirley, etc.	
	D26b	Whiten Obs, Sally Hill, Shirley, etc.	
	D27a	Whiten Obs, Sally & Shirley	
	D27b	Richmond Hill, All my children & grandchildren	
	D29b	Mount Holyoke, Elinor	
	D37b	Richmond Hill, David Dunlap red	
	D48a	Green Ridge, Grandma, Knapps, Albert	
	D49a	Dunstable, Grandma & Aunt Mary, closeup	
	D50a	Dunstable, Helen & Mother	
	D57b	Richmond Hill, Fall '58, Family group in yard	
	D69a	Kingston, Queen's Commencement, Dave & James	
	D69b	Kingston, Queen's Commencement, The Family	
	D70b	Kingston, Queen's Commencement, The Family & HSH	
	D78b	The Wedding	
	D81a	Saskatoon, University Observatory	
	D92b	Edmonton, Earl Milton	
	D113b	Toronto, AAS, Marg Mayall, Henrietta Swope	
	D115a	Richmond Hill, 4 MacDonalds	
	D116b	Richmond Hill, Helen with children & grandchildren	
	D141a	Richmond Hill, Ice storm 98 Richmond	
	D142a	Richmond Hill, DDO & Dr. Heard	
	D144a	Richmond Hill, DDO in ice, good	
	D146a	Richmond Hill, Ice storm, 98 Richmond, setting sun	
	D147a	Richmond Hill, Sally & boys against lilacs	
			1960-1961
	E11a	Tucson, Hiway House Patio, bus	
	E11b	Tucson, Kitt Peak arrival	
	E13a	Tucson, Administration building	
	E14a	Tucson, Kitt Peak Indian chiefs	
	E16a	Tucson, Kitt Peak, Meinel shows plans	
	E16b	Tucson, Kitt Peak E.F. Carpenter, A.E. Douglas	
	E17a	Tucson, Kitt Peak Waterman & Meinel	
	E17b	Tucson, Kitt Peak Meinels &	
	E19b	Tucson, Kitt Peak Waterman family	
	E20b	Tucson, Kitt Peak 80" dome from administration building	
	E21a	Tucson, Kitt Peak 5 program directors	
	E21b	Tucson, Kitt Peak 5 program directors & Dr. Waterman	
	E22b	Tucson, Kitt Peak View of 16" from 36"	
	E23b	Tucson, Kitt Peak View of buildings	

APPENDIX 4: Slides

Box	Item	Description	Date Range
			1960-1961
002P	E24a	Tucson, Kitt Peak 80" dome, crane vertical	
	E25b	Tucson, Kitt Peak 80" dome, close	
	E26a	Tucson, Kitt Peak, Water collecting area	
	E39a	Tucson, National Obs. headquarters	
	E43b	Pittsburgh, AAS	
	E47b	Richmond Hill, Mary Lou & baby David	
	E50a	Richmond Hill, David, Carol, Sally, boys	
	E53a	Kingston, Royal Society	
	E64a	Penticton, Obs, sign & David	
	E65a	Penticton, Telescope & office from N.	
	E67a	Penticton, Platform party	
	E67b	Penticton, Dr. Beals addresses dedication	
	E68a	Penticton, Dedication, group under dish	
	E70a	Penticton, Dish, David & Harrower, closer	
	E71b	Penticton, Giraffe with astronomers half up	
	E74b	Penticton, Astronomers leaving Tuesday	
	E78b	Penticton, Dish from near White Lake	
	E80b	Victoria, 36' Dome, David, Bob, Stephen	
	E81b	Victoria, DAO, David, Bob, Stephen, close	
	E82a	Victoria, Astronomers before dome	
	E83a	Victoria, DAO office headquarters & 3 boys	
	E83b	Victoria, Goldstream, cabin, JAP & David	
	E104a	Dunstable, Jocelyn Gill	
	E125a	Richmond Hill, Family group	
	E130b	Dunstable, November 6, Mother & Helen	
	E133a	Richmond Hill, Dec. '60, Louie & rod	
			1961-1962
	F02b	Richmond Hill, All my children & grandchildren	
	F04a	Montreal, Royal Society astronomers	
	F04b	Montreal, Royal Society astronomers	
	F18b	Sharon, N.H., Dr. Shapley	
	F23b	Pontiac, Mich., U of Michigan large dish, entire	
	F43b	Cambridge, AAVSO group	
	F44b	Cambridge, HCO main building, Nail & Williams	
	F71a	Green Bank, David at front door, Jansky Lab	
	F74b	Green Bank, 85' closer	
	F75b	Green Bank, Wade, Hogg, Heeschen	
	F76a	Green Bank, 140' piers & David	
	F77b	Green Bank, 300'	
	F86a	Toronto, Muir Gardens in winter & Dr. Urquhart	
	F89b	London, Canadian National Committee, Ruth & Mim	
	F90a	London, Canadian National Committee, entire	
	F91a	London, Hume Cronyn Obs.	
	F92a	Combridge, Bill Clarke & Marj Williams	

APPENDIX 4: Slides

Box	Item	Description	Date Range
			1961-1962
002P	F93a	Cambridge, Harvard Yard	
	F114b	Toronto, Graduation, David, MacRae, Heard	
			1962
	G60a	Ondrejov, 1-metre reflector, and Plavec	
	G62b	Ondrejov, Entrance main building and Valnicek	
	G63a	Ondrejov, Coelostat and vines	
	G63b	Ondrejov, Dr. Valnicek with coelostat	
	G64a	Ondrejov, Coronagraph, Valnicek, Alter	
	G64b	Ondrejov, Coronagraph	
	G65a	Ondrejov, Observatory from roof	
	G67a	Ondrejov, Main building and flowers, Perek	
	G68a	Prague, Dr. and Mrs. Alter, Praha Restaurant	
	G66a	Ondrepov, Wurzburg antenna	
	G83a	Prague, Castle court, H. Hogg and Alters	
	G85b	Prague, Vanysek, Alters, Prague	
	G86b	Prague, H. Hogg at restaurant, Prague in background	
	G87b	Prague, Veverkova 8 and Alters	
	G88a	Prague, Czech Academy, Perek, Alter	
	G88b	Prague, Czech Academy, Hogg and Perek	
	G90b	Prague, View of city from height	
	G95b	Geneva, Cousin Trix and Gustav	
	G107b	Richmond Hill, Louie, zinnias	
	G114b	Richmond Hill, David, Carol, Brian and centenary license	
	G122a	Kenilworth, Sally and boys with books	
	G138a	Victoria, Cock pheasant lunch	
	G139a	Victoria, Posed photo National Committee	
	G140b	Victoria, DAO Fall Berries	
			1962-1963
	H05a	North Bay, Allan Hill, Pinewood	
	H17b	Kenilworth, Family at door, closer	
	H29b	Green Bank, The Horn	
	H30b	Green Bank, The Monitor	
	H31b	Green Bank, Astronomers	
	H32a	Green Bank, David & Dr. MacRae	
	H33a	Green Bank, 85' from west	
	H33b	Green Bank, 300', group under	
	H34b	Green Bank, 300 ft.	
	H35a	Green Bank, David & his mother under 300'	
	H51b	Geneva, United Nations, Suzanne on restaurant balcony	
	H52a	Geneva, United Nations, Helen Hogg	

APPENDIX 4: Slides

Box	Item	Description	Date Range
			1962-1963
002P	H65b	Kenilworth, Easter, Sally, Rod, Gay, Edward	
	H67a	Dunstable, Mary, Effie, Suzy	
	H68a	Dunstable, Albert	
	H71a	Richmond Hill, Jean and newly weds, May 5, '63	
	H73b	Toronto, Alex Muir, Ruth & Amelia	
	H75b	Washington, U.S. Naval Obs, K.A. Strand	
	H77b	Washington, Gerald shows Edith medal	
	H78b	Washington, Gerald, Edith & pink roses	
	H80a	Washington, Helen & roses	
	H105b	Richmond Hill, The Heards, Judy, Scott	
	H115a	Athens, Eclipse site, Ruth & Effie	
	H116b	Athens, Eclipse site, Admiring equipment	
	H117b	Athens, Eclipse site, Effie & Ruth prepare for totality	
	H123a	Athens, Daylight again - packing up	
	H124b	Andover, Telstar Radome	
	H125b	Andover, Telstar Radome Excellent	
	H127a	Andover, Radome & group, excellent	
	H127b	Farmington, Ruth & Effie, motel	
	H147b	Richmond Hill, Observatory ladies, better	
	H148a	Richmond Hill, Louie & Dave Patton	
			Aug. 1963 - June 1964
	I08a	Kenilworth, Grandma Hogg & 3 boys, excellent	
	I15a	Penticton, Array & Odgers	
	I16a	Penticton, Group of astronomers	
	I17a	Penticton, The array	
	I18a	Penticton, Beals & Petrie	
	I18b	Penticton, Hogg, MacRae, Northcott	
	I27b	Dunstable, Woods walk, David & family, Cousin Effie	
	I34a	Dunstable, Ed, Marcia, H. Hogg	
	I38a	Richmond Hill, David & family, James & family	
	I74a	Dunstable, Mr. S & Effie at door	
	I79a	Kenilworth, Sally at door	
	I82b	Washington, D.C., The Suterlys with A. J. Cannon medal	
	I83b	Washington, D.C., The Suterlys with A. J. Cannon medal	
	I85a	Washington, D.C., David at AAS	
	I85b	Washington, D.C., Amelia Wehlau	
	I93a	Washington, Jocelyn Gill in office	
	I109b	Richmond Hill, Helen as RCI President	

APPENDIX 4: Slides

Box	Item	Description	Date Range
			June 1964 -
003P	J04a	Toronto, Ruth, ML, James, Nancy	
	J05a	Toronto, Nancy at Ruth's	
	J15a	Don Mills, Edwards Gardens Bright flowers, MacDonalds	
	J17a	Richmond Hill, Family group, Aunt Marion, Dot Flint	
	J28b	Hamburg, David arrives at IAU	
	J30a	Hamburg, Alter &	
	J30b	Hamburg, Hoffmeister	
	J31b	Hamburg, Ambartsumian address	
	J32a	Hamburg, David and astronomers	
	J32b	Hamburg, Mayalls, Hoffleit	
	J34b	Hamburg, Bergdorf, Observatory gate and Alter	
	J38a	Hamburg, Observatory	
	J40b	Hamburg, Observatory, The Schmidt	
	J41a	Hamburg, Observatory, from Schmidt roof	
	J41b	Hamburg, Observatory, Fricke & astrograph	
	J53b	Hamburg, Cuxhaven sail, David and K. Menon	
	J65b	Hamburg, Australian Hoggs	
	J66b	Hamburg, Charlie Federer	
	J67a	Hamburg, Last General Assembly	
	J67b	Hamburg, Alter, Northcott, Ruprecht	
	J68b	Hamburg, Alter & H. S. Hogg	
	J69a	Hamburg, David & his mother	
	J69b	Hamburg, David & his mother & Alter	
	J70b	Hamburg, WISO last look	
	J74a	Berlin, Planetarium & Obs	
	J89a	Berlin, Hotel Lichtburg, Dr. A.V. Douglas	
	J111b	Geneva, Trix & Pussy, Gustave, excellent	
	J134b	Richmond Hill, DDO, Carol, boys, Dr. Heard	
	J135a	Richmond Hill, DDO, David, boys, Dr. MacRae	
			Sept. 1964 - July 1965
	K10b	Richmond Hill, James, Mary Lou, Nancy	
	K29b	Kenilworth, MacDonald family, door	
	K30a	Kenilworth, MacDonald boys at door	
	K44b	Lexington, Ky., Jocelyn, Marj, Will	
	K46b	Lexington, Ky., The University Observatory	
	K47b	Edmonton, Planetarium, Sir Charles, Lady Wright	
	K48b	Edmonton, Planetarium, Wrights & McLennan	
	K56a	Toronto, Mary Innis & gardens	
	K78b	Richmond Hill, Helen in R.C.I. gown	
	K82a	Dunstable, Mr. S by ravine	
	K84b	Dunstable, David Hoggs on back lawn	
	K93a	Richmond Hill, David P. & Louie with tulips	



APPENDIX 4 : Slides

Box	Item	Description	Date Range
			Sept. 1964 - July 1965
003P	K95a	Richmond Hill, The David & James Hoggs, lilacs	
	K104b	Edmonton, Planetarium with T. S. Cameron & Ian	
	K115a	Vancouver, Dr. Armstrong explains	
	K120a	Vancouver, Squamish Falls, excellent	
	K121b	Vancouver, UBC, Louise Preston	
	K123a	Vancouver, John S. Thomas	
	K130b	Richmond Hill, Sally & boys arrive - James Hoggs	
			Europe 1965
	L06a	Bamberg, Zwicky and Christy	
	L06a	Bamberg, Sahade, McNamara, Odgers	
	L08a	Bamberg, Principal, Thiel & Marg Mayall	
	L11b	Bamberg, Group at Observatory, excellent	
	L14a	Bamberg, Telescope	
	L14b	Bamberg, Dome, Sher, Mayall	
	L16a	Bamberg, Rosino, Mannino, deKort, fine	
	L19b	Bamberg, Margaret & onions	
	L20a	Bamberg, Helen & onion necklace	
	L31b	Bamberg, Castle Detres & Strohmeier, excellent	
	L39a	Wurgburg, Astronomers & guide	
	L64b	Budapest, Konkoly Detres, dull	
	L68b	Budapest, Mountain trip, Observatory, Detre & car, good	
	L70a	Budapest, Mountain trip, Observatory, Schmidt dome, OK	
	L70b	Budapest, Mountain trip, Observatory, Schmidt, good	
	L71a	Budapest, Mountain trip, Observatory, Group in Schmidt	
	L88a	Geneva, Trix, Lia	
	L90a	Geneva, Trix & Lia, airport	
	L106a	Markham, James & family	
	L129b	Green Bank, David Heeschen speaks	
	L130a	Green Bank, David & Carol at dedication	
	L130b	Green Bank David before dish	
	L133b	Green Bank, Countryside under telescope	
	L136b	Green Bank, David, Doug, Brian, good	
	L145a	Dunstable, Albert & Bill Fulton	
	L148b	Dunstable, Mr. S. & Allan unload, excellent	
	M----	Not numbered or listed but indetified on each slide	
			Oct. 1965 - July 1966
	N01a	Dunstable, Family party in woods	
	N02a	Dunstable, Family party in woods, Don and Connie, Effie and Albert	
	N17a	Kenilworth, Colin MacDonald family, door	

APPENDIX 4 : Slides

Box	Item	Description	Date Range
			Oct. 1965 - July 1966
003P	N48a	Charlottesville, Airport, Grandma and boys	
	N69a	Switzerland, Lia, Trix, Gustave	
	N73a	Geneva, Trix, Lia, Pussy on balcony	
	N99a	Montreal, Evelyn & Vernon McCabe, closer	
	N112b	Scarborough College, Smokestack & building	
	N113b	Scarborough College, MacRae, Heard	
	N114a	Scarborough College, Group on roof	
	N116b	Richmond Hill, IAU supper, DDO	
	N143a	Groton, Longley tablet & descendants	
	N146a	Dunstable, 4 pensive grandchildren	
			July 1966 -
	08a	Dunstable, David Hoggs and Virginia car depart	
	022a	Markham, James Hoggs	
	022b	Markham, Nancy and Susan	
	024a	Richmond Hill, Picnic Six	
	038b	Lincoln, Effie, Emily, Ruth and Rod	
	049a	Dunstable, The Banks alone with mountain view	
	055b	Richmond Hill, The James Hoggs	
	068b	Geneva, Lia, Trix, Pussy, good	
	095b	Dunstable, Helen and Christmas greens	
	0150a	Richmond Hill, The Hill family and Helen Hogg	
			Spring 1957 - Dec. 1967
	P29a	Lowell, Parents' graves decorated	
	P32a	Ottawa, Jim and Ellie at new library	
	P38b	Wisconsin, Yerkes 40" dome	
	P39b	Wisconsin, Heards at Yerkes entrance	
	P40a	Wisconsin, Yerkes dome	
	P41a	Wisconsin, My cottage and Prof. Moore	
	P43a	Dunstable, Peter Millman, bridge and ferns	
	P47a	Richmond Hill, Sally, David, Carol and families	
	P89b	Richmond Hill, Aug. 18, 1967, Sally and boys, excellent	
	P137b	Dunstable, Dr. and Mrs. Shapley, closer	
	P141b	Dunstable, Ellenor Trull, boxwood	
			Dec. 1967 - Summer 1968
	Q36a	Charlottesville, Blue Ridge Stone sign - David and boys	
	Q37a	Charlottesville, Penzias and Spitzer	
	Q43a	Charlottesville, Margaret Mayall and David Hogg family excellent	
	Q49a	Richmond Hill, Easter, James Hoggs and Sally	
	Q51a	Richmond Hill, Nancy, Susan, Edward	

APPENDIX 4 : Slides

Box	Item	Description	Date Range
			Dec. 1967 - Summer 1968
003P	Q51b	Richmond Hill, 5 grandchildren	
	Q71b	Lowell, Memorial Day - Sawyer graves	
	Q101a	Richmond Hill, van da Hulse group with Helen Hogg	
	Q104a	Richmond Hill, James Hoggs, Louis and flowers	
	Q114a	Richmond Hill, Grain field and Louis	
	Q120a	Nantucket, Lorne's Observatory from roof	
	Q121a	Nantucket, Lorne's Observatory and Dorrit	
	Q125a	Nantucket, Margaret Harwood in garden	
	Q126b	Nantucket, Dorrit and students	
	Q150a	Budapest, Hungarian Academy	
	Q150b	Budapest, Hungarian Academy, astronomers	
			Russia 1958
	R1a	Map of trip to USSR	
	R1b	Malton - James and Louie	
	R2a	Malton - Helen en route to Russia	
	R5a	London airport, Ruth and Helen	
	R6b	Helsinki, Seeing Mayalls off	
	R12a	Helsinki, Observatory dome	
	R12b	Helsinki, Argelander refractor	
	R13a	Helsinki, Observarory, front entrance with wood	
	R13b	Helsinki, Moscow train, guards	
	R14a	Helsinki, Moscow train with Ed Carpenter	
	R15a	Pulkova, Main Building	
	R17a	Pulkova, Observatory, Many domes	
	R17b	Pulkova, Observatory, Large dome	
	R18b	Pulkova, Observatory, Giant radio telescope closeup	
	R19a	Pulkova, Observatory, Giant radio telescope Brac	
	R19b	Pulkova, Observatory, Young Russian showing equipment	
	R20a	Pulkova, Observatory, Sputnik tracker	
	R21a	Pulkova, Observatory, Small group outside	
	R29a	Leningrad, Peterhof, RON and Rabe	
	R31a	Moscow, IAU stamp	
	R47b	Moscow, Sternberg Institute	
	R50b	Moscow, University, to top	
	R51a	Moscow, University to right center	
	R52b	Moscow, IAU sign from University	
	R61b	Moscow, "The Mad Russian"	
	R63b	Moscow Exhibition - Astronomers past gate	
	R75a	Moscow Model of Putnik, Ed C.	
	R81b	Samarkand, Brick over sextant	
	R82a	Samarkand, Ulugh Bag's observatory	
	R82b	Samarkand, Great sextant by Smiley	

APPENDIX 4: Slides

Box	Item	Description	Date Range
			Russia 1958
003P	R83b	Samarkand, Astronomers at Observatory, Ruth Northcott	
	R84a	Samarkand, Astronomer at door - tile	
	R126b	Helsinki, Helen Hogg and Ruth Northcott lunch on hotel roof	
	R127a	Helsinki, Helen Hogg and Hotel Vaakuna	
	R127b	Helsinki, Helen and Ruth and Russian railroad car	
			Sept. 1968 - July 1969
	S08a	Hungary, Observing station	
	S08b	Hungary, Observing station	
	S10b	Hungary, Dome of	
	S12a	Hungary, Obs lounge and group	
	S19a	Geneva, Cousin Trix and Lia	
	S26a	Richmond Hill, Pattons, Rod and Ed, zinnias	
	S45b	Algonquin, ARO Administration	
	S46b	Algonquin, The long array	
	S47a	Algonquin, 150-ft. dish	
	S51a	Algonquin Park, Jack Locke and Control Building	
	S51b	Algonquin Park, Dan M and R Garrison	
	S53a	Algonquin Park, U of T dish and staff	
	S79a	Richmond Hill, MacDonald boys, Nancy, Susan	
	S81a	Richmond Hill, Mrs. Ferguson, Miss Barratt, Mrs. Hillaby	
	S109a	Richmond Hill, 2 Grandmas, Rod and cake	
	S137b	Dunstable, Ed and Debbie	
			1969 - May 1971
	T11b	Scarborough, MacGillivrays, Milton Runyon	
	T17b	Richmond Hill, The whole family	
	T28b	London, University of Western Ontario dedication	
	T29b	London, University of Western Ontario telescope	
	T30b	London, University of Western Ontario dome	
	T38a	France, Gustave and Trix	
	T52b	Richmond Hill, The seven grandchildren	
	T66b	Richmond Hill, Peter and Peggy Millman	
	T77a	Dunstable, Helen in cast, wheelchair	
	T124b	Richmond Hill, Milton and Laura Runyon	
	T126b	Richmond Hill, David Hogg family, Christmas 1970	
	T148b	Arizona, Nogales, Astronomers at pool	
	T149b	Arizona, Nogales, Wildt, Bok, Edmondson	

APPENDIX 4: Slides

Box	Item	Description	Date Range
			May 1971 - Nov 1971
004P	U01a	Nogales, The Nick Mayalls	
	U03a	Nogales, Rio Rico poppies, my building	
	U04b	Nogales, Sonora Mexico, Ethel Carpenter	
	U12a	Victoria, Airport, Pearces	
	U23b	Woodbridge, Ursula's party with H. Hogg	
	U27a	Dunstable, Sawyers, Effie, Albert	
	U31b	South Hadley, Katy at class reunion	
	U32a	South Hadley, Elinor and Clare at Ob	
	U35a	Toronto, June Institute, Heard and MacRae	
	U35b	Toronto, June Institute, Heard and MacRae	
	U36a	Toronto, June Institute, Icko Iben	
	U98b	Staten Island, N.Y., Whiteside grave	
	U130b	Richmond Hill, Louie and her rose	
			Nov. 1971 - Aug. 1972
	V24b	Richmond Hill, 7 grandchildren & parents	
	V73a	Richmond Hill, Helen in finery May 17 for Provincial dinner	
	V81a	Dunstable, Sawyer reunion, May 31, 1972	
	V81b	Dunstable, Sawyer reunion, Ladies	
	V82a	Dunstable, Sawyer reunion, Knapp sisters	
	V116a	Kennebunkport, Bob Ludwig family	
			August 1972
	W05a	Dunstable, Sept. 8, The Runyons	
	W35b	Richmond Hill, Gustave, Ed, Gray rake leaves	
	W37b	South Hadley, New Obs. & H. Hogg	
	W41b	Richmond Hill, David & family depart	
	W43a	Richmond Hill, James & family	
	W44a	Richmond Hill, James & MacDonald family	
	W45b	Richmond Hill, Drs. Iwanowska & MacRae at Ob	
	W46a	Richmond Hill, Drs. Iwanowska & MacRae at Observatory House	
	W47b	Toronto, Dr. Iwanowska & Russell, before U.C., Jan. 13 '73	
	W48b	Toronto, Drs. Iwanowska & Hogg before library	
	W56b	DAO, 3 astronomers	
	W57a	DAO, Optical tower	
	W71b	Edmonton, CAS Council	
	W72a	Edmonton, CAS Council	
	W72b	Edmonton, CAS Council & H. S. Hogg	
	W80b	Richmond Hill Helen and my order of Canada	
	W88b	Charlottesville, Va., Fan Mountain Obs.	
	W89a	Charlottesville, Va., AAVSO at Fan Mt. May 19 '73	
	W90b	Charlottesville, Va., David at U of Va	

APPENDIX 4: Slides

Box	Item	Description	Date Range
			August 1972
004P	W99b	Dunstable, Cedarcrest from S.	
	W100b	Richmond Hill, Picnic 4	
	W101b	Richmond Hill, 5 grandchildren on lawn	
	W115b	Richmond Hill, David Patton's party, Helen included	
	W124b	Ottawa, Marg M., Sally, Ishbel	
	W125b	Ottawa, Helen & Sally for the Queen	
	W146a	Bluevale, Louie at her home	
			Summer 1973 - Aug. 1974
	X08a	Torun, Dr. Iwanowska at N. Copernicus University	
	X09a	Torun, Administration building, Obs. at Torun	
	X09b	Torun, Dr. Iwanowska addresses group	
	X10a	Torun, Bulletin board at Obs.	
	X11a	Torun, Obs. grounds from dome walk	
	X11b	Torun, New Radio Astronomy Building	
	X12b	Torun, Obs. entrance sign & flowers	
	X13b	Torun, Dr, Iwanowska at entrance to Radio Astronomy	
	X15a	Torun, N. Copernicus Univ.	
	X23b	Torun Tour buses, Jean Wright, Mrs. Wilson	
	X39a	Frombork Helen before cathedral	
	X44a	Olzstyn, Dr. Donnay & Planetarium	
	X64b	Richmond Hill, Helen, Sally & boys	
	X100a	Newfoundland, Conception Bay & iceberg	
	X147a	Richmond Hill, Allan Hill family	
	X150a	Richmond Hill, James Hogg family, Aug. '74	
			August 1974 - Summer 1975
	Y30a	Mont Tremblant, Meeting Hall, Herzberg symp.	
	Y31a	Mont Tremblant, Meeting Hall, Dr. Schneider & other scientists	
	Y31b	Mont Tremblant, Herzberg & Don Morton	
	Y32b	Mont Tremblant, Carl & Miriam Beals	
	Y43b	Williamstown, Mayalls & Mary Williams	
	Y66b	Pasedena, Hale, Allan Sandage at parking lot	
	Y71a	Victoria, DAO, Mirror sign, Ken Wright, closer yet	
	Y72b	Victoria, Jean Petrie at Pearce garden	
	Y73a	Victoria, Joseph Pearce in his garden	
	Y75a	Richmond Hill, 5 grandchildren, Sally & Mary Lou	
	Y149b	Richmond Hill, Picnic 3 in Langstaff garden	
	Y150a	Richmond Hill, Picnic 3 in, Helen in Langstaff garden	

APPENDIX 4: Slides

Box	Item	Description	Date Range
			1975-1976
004P	Z18b	R.H. - David Hogg family leaves	
	Z44b	Dunstable - Sawyer family reunion, golden leaves	
			1976-1977
	AA9b	Penticton, B.C. - CAS Dinner at dish	
	AA49b	Glendale - Prentiss and Helen French, James and Ed	
	AA54a	Burlington - Family party	
	AA83a	Victoria Trip to see CHFT Mirror	
	AA83b	Victoria - QE2 Mirror	
	AA96a	Kleinberg - Jean and Ed Hill and Helen Hogg	
			1977-1978
	AB91a	Edmonton - New Observatory University	
	AB101b	Saskatoon - All the CAS Presidents	
	AB102a	Saskatoon - All the CAS Presidents	
	AB102b	Saskatoon - The observatory	
	AB108a	Cambridge, England - The Observatory	
	AB109b	Cambridge, England - Amelia and Jean Wehleu	
	AB111b	Cambridge, England - Group enjoying barbecue	
	AB131b	Cambridge, England - Institute of Astronomy	
	AB132b	Cambridge, England - Institute of Geophysics	
	AB133b	Cambridge, England - Helen Hogg at Observatory	
	AB142a	Cambridge, England - Astronomers at work	
	AB147b	R.H. - Dorothy F. and fall flowers and James	
			Fall 1978 - Spring 1980
	AC10b	Dunstable, Hubbard Reunion, 1978	
	AC49a	R.H. 98 Richmond and basswood	
	AC56a	Dunstable, Hazel and Don Douglass, Helen H.	
	AC62a	Charlottesville, Brian and Grandma Hogg	
	AC69a	Goderich, Helen Hogg on her beach	
	AC97a	Penticton, DRAO, the Observatory	
	AC97b	Penticton, Telegraph poles	
	AC98a	Penticton, Picnic at DRAO	
	AC103b	Victoria, J.A. Pearce, S van den Bergh & K. Freeman at U. of Vic.	
	AC105b	Victoria, Jean Petrie and Helen Hogg	
	AC136b	R.H. All my grandchildren, 1979, exc.	
	AC137a	R.H. David Hogg family	
	AC141a	R.H. Helen with emerald ring	
	AC144b	R.H. Helen green velvet and emerald ring	
	AC146a	R.H. Picnic four	

APPENDIX 4: Slides

Box	Item	Description	Date Range
			1980-1981
004P	AD11a	Toronto - Birthday Party, Christine, Emilia, Helen	
	AD31a	Lowell - Ellenor, Whitman and Helen	
	AD45b	Hantsport - Dr. Roy Bishop	
	AD47a	Avonport - Roy Bishop's home and observatory	
	AD54b	R.H. - Late afternoon, Sally and family, David, Carol, James	
	AD80a	New Mexico - VLA Dish at hangar	
	AD80b	New Mexico - VLA Dedication	
	AD81a	New Mexico - VLA	
	AD82a	New Mexico - VLA and buildings and flag	
	AD82b	New Mexico - VLA Dishes tilted to new position	
	AD83b	New Mexico - VLA Dedication	
	AD84a	New Mexico - VLA Dedication	
	AD84b	New Mexico - VLA Dedication	
	AD85a	New Mexico - VLA Dedication	
	AD86a	New Mexico - VLA David and Carol at Dedication	
	AD86b	New Mexico - VLA The VLA	
	AD103b	Sarasota - Don, Hazel, Botanical Walk	
	AD139a	R.H. - My office before disruption July 6, 1981	
			1982-1983
	AE24b	Waterloo - Bert and Marjorie balcony, James, librarian	
	AE25b	Troy, N.Y. - Kenneth and Dot, Mario's	
	AE33a	R. H. Three Clements, July 6, 1982	
	AE35b	R. H. Nancy's Birthday Party, James family	
	AE39b	R.H. Same group, July, 1982	
	AE40b	R. H. 77th Birthday, Helen Hogg	
	AE95b	Kitt Peak - domes	
	AE96a	Kitt Peak - solar tel. and my transport	
	AE97a	Kitt Peak - Helen Hogg at solar tel.	
	AE97b	Kitt Peak - Reservoir and dome	
	AE132a	R.H. - Mothers' Day, 1986, James Hogg family	
	AE136a	Lowell - Hazel, Faye, Rosetta at grave	
	AE136b	Lowell - Group at Ellenor Trull's	
	AE139a	R.H. - Louie and tree	
	AE148a	Kona, Hawaii - Bat Bok, Keauhu Beach Hotel, Helen Hogg	
	AE148b	Kona, Hawaii - Bat Bok, Keauhu Beach Hotel	
	AE149a	Kona, Hawaii - Keauhu Beach Hotel, Helen Hogg and Bill	



APPENDIX 4: Slides

Box	Item	Description	Date Range
			1983-1985
004P	AF1a	Hawaii - Waimea CFH Headquarters-Director Racine	
	AF2a	Hawaii - Waimea CFH Headquarters - Rene Racine	
	AF2b	Hawaii - Waimea CFH Headquarters - Helen Hogg	
	AF19a	Vancouver - Louise Lefeaux, Helen Hogg	
	AF20a	Victoria - Dr. Pearce at Glengarry	
	AF20b	Victoria - Victoria Centre Observatory, van der Byl & Jack Newton	
	AF21b	Victoria - Jack Newton at his telescope	
	AF22a	Victoria - Jack Newton and his dome	
	AF27a	Victoria - Sidney and Gretchen van der Vergh	
	AF27b	Victoria - Sidney and Gretchen on balcony, Chateau	
	AF32b	R.H. - July 1st, family group, David and Carol	
	AF58b	Thornhill - Edward against excellent	
	AF60b	R.H. - Clement family	
	AF62b	Toronto - Pekin Restaurant, Small and Chu	
	AF63b	Toronto - Pekin Restaurant, with H. Hogg	
	AF78a	Charlottesville - David Hogg Hogg family better	
	AF86a	Dunstable - 5 Sears Family	
	AF105b	R.H. - Family group, Edward, Graham, Brian	