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DOMINION ASTROPHYSICAL OBSERVATORY.

The inception of the series of events which culminated in the founding of this observatory may be considered as dating from 1910, in which year a meeting of the International Union for Co-operation in Solar Research was held at Mount Wilson, California. At that meeting the desirability of providing further powerful equipment for research in astrophysics was broached and thoroughly discussed and the possibilities in this direction canvassed. A year later, on the occasion of the meeting at Ottawa of the Astronomical and Astrophysical Society of America, a resolution was passed expressing the approval of the Society of the work accomplished with the 15-inch telescope and expressing the hope that the Government would provide a larger instrument. The following year, resolutions to the same effect were also passed by the Royal Astronomical Society of Canada and the Royal Society of Canada.

In 1913, the authorization of the Minister of the Interior was obtained to make enquiries, prepare specifications and call for tenders for a 60 or 72-inch reflecting telescope. In the meantime careful investigations were carried on as to the location most suitable for a telescope of this size. After an examination of meteorological records throughout Canada, five stations, of which Ottawa was one, were selected for detailed experimentation as to conditions of astronomical "seeing". After a series of careful tests it seemed that Victoria would furnish the most suitable conditions, a verdict which has been amply justified by the results.

In October, 1913, the contract for a 72-inch telescope was awarded, and in April, 1914, it was definitely decided that it should be placed at Victoria in accordance with the results of the tests just mentioned. The contract for the

construction of the building was let in the summer of 1915, and the telescope was erected in the completed building in October of 1916.

In April, 1917, Dr. J.S. Plaskett was appointed Director, and Dr. R.K. Young, formerly of the Dominion Observatory, Ottawa, as his assistant; Mr. W.E. Harper was later appointed Assistant Director. After the preliminary work of testing and adjusting had been done the staff was gradually enlarged, and consists at the present time, in addition to the Director and Assistant Director, of four astronomers and three assistants of various grades.

Unlike the Dominion Observatory at Ottawa, whose work covers a number of subdivisions, the work at Victoria is confined to astrophysics. The large size of the telescope and its proven efficiency have enabled a great deal of important astronomical work to be done, much of which could not be done at all with a smaller instrument. A large program of radial velocity observations, including many stars too faint to be observed with a smaller instrument, has been carried through. A valuable research on O-type stars, a class which has the highest temperatures of any stars known, has also been completed. Another important completed piece of work is the measurement by spectroscopic methods of the distances of somewhat over 1000 stars. The two latest pieces of research, which have brought high honours to the Director and much credit to the staff, dealt respectively with the interstellar calcium cloud and the rotation of the galaxy.

The justification for the founding of this observatory is that by reason of the large size of the telescope (the second largest in the world) it has been possible to carry on researches which are of great importance in astronomical progress, and which have helped to give Canada a worthy place in scientific work as compared with other countries



The moral prestige of a country, as distinct from material and commercial prestige, is measured largely by its status in scientific work. In fact, this is inevitably one of the main factors which determines its position in the scale of civilization, and is hence a phase of development which no government can afford to overlook.

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Department of the Interior  
DOMINION OBSERVATORY

IRUM STEWART  
Director

OTTAWA, CANADA, July 21, 1930.

DOMINION OBSERVATORY LIBRARY

Astronomy comprehends all the sciences: consequently the Directors of the Observatory have always maintained that the astronomical library should include a broad selection of books on many branches of science, as well as periodicals and the publications of observatories and other scientific institutions throughout the world.

It is important that investigators in the various lines of work at the Observatory should have at hand in the books and journals most of the work which has been performed on any subject in which they are interested. On account of the completeness of our Observatory library it is also quite frequently referred to by others besides the Observatory staff.

The library in order to keep up to date with the progress of astronomical development must keep adding more and more to the number of its volumes. When the main building of the Observatory was completed in 1905, the comparatively few volumes on hand found adequate storage space in the sectional books cases of the reading room and the steel cases of the adjoining stack room and its upstairs. The library has grown by leaps and bounds, there being now over 17000 volumes, and for some years there has been an overflowing into temporary cases placed in all available spaces in the halls and the offices to the point of discomfort, and the need for more adequate space has been keenly felt.

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A STEWART  
1917

OTTAWA, CANADA, .....

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When the Geodetic Survey was separated from the Observatory in 1917 a certain number of survey books and reports were turned over to them; others which were not confined solely to surveying have always been available for the use of the various surveys.

When Mr. L'Abbé took charge of the Library, his first step was to instal a more adequate card system involving a complete record of author, title, cross entry and dictionary. With the system employed publications relating to a certain subject can be secured promptly for a member of the staff who usually desires them in a hurry.

The comprehensiveness of the library is indicated in the following outline of divisions and sub-divisions according to which the volumes are classified and card indexed:

ALMANACS, YEAR BOOKS, ETC.

Almanaque Nautico (San Fernando)  
American Year Book  
American Ephemeris  
Annuaire Astron. (Bruxelles)  
Anuario (Jacubaya)  
Annuaire des Mathematiques (Paris)  
Berliner Astron. (Jahrbuch)  
Bureau des Longitudes (Annuaire)  
Calendario Astron. (La Plata)  
Canada Year Book  
Canadian Almanac  
Connaissance des Temps  
Ephemerides Astron. (Coimbra)  
General  
Minerva  
Nautical Almanac  
Nor Ist's  
Whittaker's Almanac  
Who's Who (British)  
Who's Who (Canadian)

ARCHAEOLOGY.

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A S T R O N O M Y

Astro. Physics  
Comets  
Double Stars  
General and Popular  
Horology  
Meridian Observations  
Meteors  
Moon  
Observatories  
Parallax  
Photometry  
Planets  
Practical  
Radial Velocities  
Spectroscopic Binaries  
Sun  
Spectrum Analysis and Spectroscopy  
Star Catalogues  
Theoretical and Math.  
Tides  
Variable Stars

A T L A S E S & M A P S

B I B L I O G R A P H Y

B I O L O G Y

B O T A N Y

B O U N D A R I E S

Foreign  
International  
Provincial

C O M M U N I C A T I O N S & C O M M E R C E .

C U R I O S I T I E S

D I C T I O N A R I E S .

E N C Y C L O P E D I A S .

E N G I N E E R I N G .



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ETHNOLOGY.

GEOPHYSICS.

Atmospheric Electricity  
General  
Geology  
Gravity  
Petrology  
Seismology  
Terrest. Mag.  
Terrest. Tides

HISTORY.

Ancient  
Biography  
General  
Geography and Travels  
Modern  
Statistics

HYDROLOGY.

INSTRUMENTS.

Astron.  
Geophysical  
Math. & Drawing  
Meteor.  
Physical  
Surveying  
General

LABORATORY & WORKSHOP PRACTICE.

LEGISLATION.

Conventions  
General  
Orders in Council (Interior)  
Public Accounts (Can.)  
Statutes (Canada)  
Statutes (Ont.)  
Treaties

MAP CONSTRUCTION.



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M A T H E M A T I C S.

Algebra  
Calculus  
General  
Geometry  
Groups  
Probabilities & Least Squares  
Pure  
Trigonometry  
Vector Analysis

M E C H A N I C S.

Dynamics  
General  
Hydrodynamics  
Statics

M E T E O R O L O G Y.

M E T R O L O G Y.

M I N I N G & M I N E R A L O G Y.

M I S C E L L A N E O U S.

N A V I G A T I O N.

P E R I O D I C A L S.

Acad. Romana  
Acta Mathematica  
Alpine Journal  
American Academy of Arts & Sciences.  
American Association of Petroleum Geologists  
American Chem. Soc. Journal  
American Geographical Society  
American Inst. of Mining & Metallurgical Engineers  
American Journal of Science  
American Machinist  
American Mathematical Monthly  
American Meteorological Society  
Annalen Physik  
Annal. Phys. & Chem.  
Astronomical Journal  
Astron. Nachrichten  
Astron. Soc. Pacific  
Astron. Rundschau

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### PERIODICALS

Astrophysical Journal  
Beib. Annal. Physik  
Beib. Annal. Phys.u.Chem.  
Beiträge Geophysik  
Beiträge Phys. Atmosphäre  
Beobachtung Zirkular (Astron. Nachr)  
Berichte Deut. Chem. Ges.  
British Astronomical Association  
British Journal Photography  
Bulletin Astronomique  
Bulletin des Sciences Mathématiques  
Bulletin Soc. Geog. (Quebec)  
Bureau Standards (U.S.)  
Canadian Geographical Journal  
Canadian Mining & Metallurgical Bulletin  
Canadian Mining Journal  
Canadian Railway Guide  
Chemical Abstracts  
Chemical World  
Chimie Physique (Journal)  
Ciel et Terre  
Citizen's Radio  
Comptes Rendus (Acad. Sciences)  
Cumulative Book Index  
Deut. Mech. Zeitung  
Discovery  
Drahtlos Telegraphie  
Economic Geology  
Electrician  
Electronics  
Electrician & Mechanic  
Engineering+Mining Journal  
Engineering Index  
Engineering News  
Engineering News Record  
Engineering Record  
English Mechanic and World of Science  
Erdbebenwarte  
Fortschritte Physik  
Franklin Institute Journal  
General Electric Review  
Geological Magazine  
General (Unclassified)  
Geographical Review/American Geog. Society  
Geological Soc. of America  
Himmel u. Erde  
Himmelswelt, Die  
Horological Journal  
Hydro-Electric Commission of Ont. (The Bulletin)  
Industrial Engineering & Engineering Digest  
Instrumentenkunde  
Seismological Journal of Japan  
Journal des Mathématiques (Liouville)  
Journal de Physique et le Radium  
Journal of Geology  
Journal of Mathematics  
Journal of Optical Soc. of America  
Journal of Physical Chemistry  
Journal of Scientific Instruments

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PERIODICALS.

Labor Gazette (Canada)  
L'Ecole Normale  
Marconograph U.S. (Wireless Age)  
Math. Wissen. (Leipzig)  
Mathesis  
Materiaux pour l'etude des Calamités.  
Meteorological Magazine  
Mining Magazine  
Mitteil. Astron. u. Physik  
Meterol. Zeitschrift  
Monthly Evening Sky Map  
Monthly Notices (R.A.Soc. London)  
Monthly Weather Review (Toronto)  
National Acad. Of Science of U.S. Washington  
National Geographical Magazine  
National Research Council  
Nature  
Naturwissen. Wochenschrift  
Observatory.  
Pan-American Geologist  
Petermann's Mitteil.  
Philosophical Magazine  
Photo-Era Magazine  
Photographic Abstracts  
Physical Chemistry  
Physical Review  
Physikalische Berichte  
Physikal. Zeitschrift  
Popular Astronomy  
Popular Radio  
Popular Science Monthly  
Radium  
Review of Scientific Instruments  
Reviews of Modern Physics  
Revista de la Soc. Espana y America  
Revue d'Optique théoriques et Instrumentale  
Royal Astronomical Society (Canada)  
Royal Astronomical Society (London)  
Science  
Science Abstracts  
Scientia  
Scientific American  
Scientific American Supplement  
Scientific Monthly  
Science News-Letter  
Science Progress  
Scottish Geographical Magazine  
Seismological Society of America (Bulletin)  
Sirius  
Sitzungsber. Preuss. Ak. Wiss.  
Société Astronomique de France  
Spectator  
Symon's Meteor. Magazine  
Technical Literature & Engineering Digest  
Terrestrial Magnetism  
University Monthly (Toronto)  
Viertelj. Astron. Gesellschaft  
Washington Academy of Science (Journal of)  
Wireless Age  
Wireless World  
Zeitschrift Anorg. Chemie



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H STEWART  
1897

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PERIODICALS.

Zeitschrift für der Deut. Gesell. Mech. und Optik.  
Zeitschrift für Feinmechanik und Präzision  
Zeitschrift für Geophysik  
Zeitschrift für Instrumentenkunde  
Zeitschrift für Physik-Chemie  
Zeitschrift für Praktische Geologie  
Zeitschrift für Vulkanologie  
Zeitschrift für Wissen Photog. &c.

PHOTOGRAPHY.

PHYSICS & CHEMISTRY.

Chemistry  
Electricity & Magnetism  
General  
Heat  
Light  
Optics  
Molecular Physics  
Sound  
Spectroscopy

PHYSIOLOGY.

PUBLICATIONS. (unclassified)

REPORTS & ANNALS OF OBS. SOC., &c.

Abbadia (Hendaye)  
Academie des Sciences (Paris)  
Academie Imp. des Sciences (St. Petersburg)  
Academy of Sciences (U.S.)  
Adelaide Observatory (Australia)  
Aix-la-Chapelle (Aachen)  
Akad. der Wissen (Berlin)  
Akad. der Wissen (Vienna)  
Alfred Observatory (Mauritius)  
Algiers (Africa)  
Allegheny Observatory  
American Association Advance of Science  
American Association of Variable Star Observers  
American Astronomical Society  
American Ephemeris (Astron. Papers)  
American Philos. Society (Philadelphia)  
Amherst College Observatory (Mass.)  
Archives (Canada)  
Armagh Observatory (Ireland)  
Astron. and Astrophys. Society of America  
Astronomical Society Pacific  
Astron. u. Geophysik (Jahrbuch)  
Astronomische Gesellschaft

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REPORTS & ANNALS OF OBS., SOC., &c.

Athens Observatory (Greece)  
Auditor General (Canada)  
Baltimore (Md.)  
Bamberg Observatory (Germany)  
Batavia (K.Mag. & Meteor.Obs.)  
Berkeley (U.S.)  
Berlin (Germany)  
Berlin Observatory  
Besançon Observatory (France)  
Bogotá Observatory (Columbia Rep.)  
Bologne Observatory (France)  
Bombay Observatory  
Bonn Observatory  
Bordeaux Observatory  
Bothkamp (Germany)  
Brisbane (Australia)  
British Ass'n for Advance of Science  
Brussels (Belgium)  
Bucharest (Roumania)  
Budapest (Hungary)  
Bureau Central Meteor. (France)  
Bureau de Longitudes (Montsouris Paris)  
Bureau of Standards, U.S.A.  
Cairo (Helwan Obs.)  
Calcutta  
Cambridge Philo.Society (England)  
Cambridge Observatory (England)  
Cambridge Eng.Solar Physics Observatory  
Cape Observatory (Good Hope)  
Capodimonte Observatory (Naples)  
Carnegie Institution  
Cartuja Observatory (Granada, Spain)  
Cat.Internat.(Tremblements de Terre)  
Chevreuse Observatory (France)  
Chicago  
Chile (Rep.)  
Christiana Observatory  
Cincinnati Observatory (Mt.Lookout)  
Civil Service (Canada)  
Civil Service Commission (Canada)  
Coimbra (Portugal)  
Colombo Observatory (Ceylon)  
Columbia University Observatory (N.Y.)  
Conservation Commission (Canada)  
Copenhagen Observatory (Kjbenhavn)  
Cordoba Observatory (Argentine Rep.)  
Danzig  
Dehra-Dun  
Detroit Observatory (Ann Arbor)  
Deut.Meteor.Jahrbuch (Strassburg)  
Dominion Astrophysical Observatory (Victoria)  
Dominion Land Surveyors' Assn.  
Dominion Observatory (Canada)  
Dorpat Observatory (Jurjew)  
Dublin (Ireland)  
Dudley Observatory (Albany, N.Y.)  
Dunsink Observatory (Ireland)  
Durban Observatory (Natal)

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Durham Observatory (England)  
Ebro Observatory (Tortosa, Spain)  
Engelhardt Observatory (Kasan)  
Edinburgh Observatory (Scotland)  
Flagstaff (Lowell)  
Florence (Firenze)  
Flower Observatory (Philadelphia)  
Frankfurt a.M. (Germany)  
General (Reports, &c.)  
Geneva (Switzerland)  
Geodetic Survey of Canada  
Geographic Board of Canada  
Geological Survey of Canada  
Goodsell Observatory (Northfield, Minn.)  
Göttingen (K.K.Ges.d.Wissen)  
Göttingen Observatory  
Graz (Graz)  
G.T. Survey (India)  
Greenwich Astron. Magnet. & Meteor. Observations  
Greenwich (Astron. Results)  
Greenwich (Magnet. & Meteor. Results)  
Greenwich Observatory  
Greenwich (Photo Heli. Results)  
Greenwich Spectro. & Photo Results)  
Groningen Lab. (Holland)  
Hamburger Observatory (Bergedorf)  
Harvard College Observatory  
Heidelberg  
Helsingfors (Finland)  
Helwan (Khedival Obs.)  
Hong Kong Observatory  
Huggins Observatory (Sir Am.)  
Indo-China  
Interior Department (Canada)  
International Geodetic Assn.  
International Joint Commission  
International Seismological Assn.  
International Union Solar Research  
International Waterways Commission  
Jahrbuch der Naturwissen.  
Jahresbericht (AG)  
Jarry-Desloges Observatory  
Johannesburg  
Jurjew (Russia)  
Kasan Observatory (Russia)  
Kew Observatory (England)  
Kharkow University Observatory (Russia)  
Kiel Observatory (Germany)  
Kiew Observatory (Russia)  
Kodalkanal & Madras Observatory  
Königsberg Observatory  
Königstuhl - Heidelberg Observatory  
Ksara Observatory (Syria)  
Kyoto Phys. Inst.  
La Plata University Observatory  
Laval University (Quebec)  
Lawe Observatory (Columbia, Mo.)  
Leander Mc Cormick Observatory  
Leiden Observatory (H. Netherlands)  
Leipzig  
Lemberg Observatory (Poland)  
Lick Observatory



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REPORTS & ANNALS OF OBS., SOC., &c.

Lille Observatory (France)  
Lisbon (Portugal)  
Liverpool Observatory (Bidston)  
Lowell Observatory (Flagstaff)  
London (England)  
Lyon (France) Observatoire de  
McGill University (Montreal)  
Madison  
Madras  
Madrid (Spain)  
Manchester (England)  
Manila (Weather Bureau)  
Marine & Fisheries Department (Canada)  
Marseille (France)  
Massachusetts Inst. Tech. (Boston)  
Mauritius  
Melbourne Observatory  
Messina Observatory (Italy)  
Meteorological Office (London, England)  
Meteorological Service (Canada)  
Meudon Observatory (France)  
Mexico  
Mexico Astron. Observatory  
Mexico (Inst. Geolog.)  
Milan (Milano)  
Mines Department (Canada)  
Modena Observatory  
Moncalieri (Italy)  
Montserrat Obs. (Cuba)  
Moscow  
Mt. Wilson Observatory (Pasadena)  
Munich (Munich)  
Nagoya (Japan)  
Nantes (France)  
Naples  
Natal Colony  
National Academy of Science U.S.  
National Physic. Lab.  
Neuchatel Observatory  
New York  
New York State Engineers  
New Zealand  
Nice Observatory  
Observatories (General)  
Odessa  
O'Galla Observatory  
Ontario Land Surveyors' Assn.  
Ostwald's Klassiker. Ex. Wissen  
Oxford University Observatory  
Padua University Observatory (Padova)  
Pan Pacific Union  
Paris (France)  
Paris Observatory (Municipal)  
Paris Observatory (National)  
Pasadena (Mt. Wilson Obs.)  
Pavlovsk Constantine Observatory  
Perpignan (France)  
Perth (Australia)  
Petrograd (University Obs.)

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REPORTS & ANNALS OF OBS., SOC., &c.

Pic du Midi de Bigorre Observatory  
Philadelphia  
Poids et Mesures (Bureau Inter.)  
Potsdam  
Potsdam Astro-Physics  
Prague Observatory (Austria)  
Preuss Geod.Inst. (Potsdam)  
Preuss Meteor. Institute  
Princeton University Observatory  
Public Works (Canada)  
Pulkova (Russia)  
Quito  
Radcliffe Observatory (Oxford)  
Research, Scientific and Industrial (Canada)  
Rio de Janeiro  
Rome  
Royal Astronomical Society (London)  
Royal Society (Canada)  
Royal Society (London)  
St. Louis Observatory (Jersey, Eng.)  
St. Louis University (U.S.)  
Samoa Observatory  
San Fernando (Spain)  
Santiago de Chile  
Schweizerische Geodetic Kommission  
Siam  
Simla (British India)  
Smithsonian Institution  
Smithsonian Institution Astrophys. Obs.  
Society Francaise de Physique  
Sofia  
Solar Research (International Union)  
S.Kensington Observatory  
Specola Vaticana (Rome)  
Sproule Observatory (Swarthmore, Pa.)  
Stockholm  
Stonkhurst Observatory (England)  
Strassburg University Observatory  
Strassburg  
Surveyor General (Canada)  
Sydney (Australia)  
Tacubaya Observatory (Mexico)  
Talence Observatory (Gironde)  
Tashkent Observatory (Russia)  
Tiflis (Russia)  
Tokyo (Japan)  
Toronto  
Toulouse University Observatory  
Turin (Torino, Italy)  
Uccle Observatory (Bruxelles)  
University of Toronto  
U.S. Chief of Eng.  
U.S. Coast and Geodetic Survey  
U.S. Geological Survey  
U.S. Naval Observatory  
U.S. Secretary War  
U.S. Weather Bureau  
Uppsala (Sweden)  
Uruguay  
Utrecht (Netherlands)

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REPORTS & ANNALS OF OBS., SOC., &c.

Vassar College Observatory  
Vienna (Wien)  
Vladivostok (Russia)  
Wanganui (N.Z.)  
Washburn Observatory (Madison)  
Washington Union (St. Louis)  
Wellington (N.Z.)  
Wilhelmshaven Observatory  
Ximeng  
Yale Observatory (New Haven)  
Yorkes Observatory  
Zi-ka Wei (Astron. Obs. China)  
Zi-ka Wei (Mag. Meteor. China)  
Zurich (Switzerland)

SURVEYING

General  
Geodesy  
Hydrography  
Instruments  
Photographic  
Precise Levelling  
Topography

TABLES

Astronomical  
Calendar  
Geographical  
Geophysical  
Magnetic  
Mathematical  
Meteorological  
Physical  
Unclassified

WORKS (Collected)

Hendrik Abel  
J.C. Adams  
P. Airy  
L. Cantor  
A. Cauchy  
A. Cayley  
C.L. Charlier  
W.K. Clifford  
G.H. Darwin  
L. Euler  
Fermat  
Foucault  
Fourier  
E. Galois  
F. Gauss  
Unclassified (General)  
Bernoulli  
Wm. Herschel  
H. Hertz  
G.T. Hill



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WORKS (Collected)

Hopkinson  
Huggins  
Huxley  
Kelvin (Sir W. Thomson)  
Kepler  
Lagrange  
Laguerre  
Lapalce  
Leibniz  
Liebig  
Liouville (Journal des Math.)  
M. Marie  
Maignac  
Bureau Internat. Poids et Mesures  
Poincare  
Rayleigh  
Reynolds  
A. Rowland  
Henry J.S. Smith  
Societe Francaise de Physique  
Stokes  
Sylvester  
Tait  
Tisserand  
Prof. J. Thomson  
Sir. Wm. Thomson (Kelvin)

ZOOLOGY

The library apart from its vital importance to the work of the observatory increases in monetary value from year to year, particularly in regard to older books which are now out of print and especially so in the case of complete runs of periodical publications which rise rapidly in value as the years go by. Great care has always been taken in the handling of the volumes and no hesitation should be felt in providing adequate stacking and storing of these splendid volumes.

As soon as possible after a volume or a periodical is completed it is carefully arranged and sent to the binding division of the library. It was early realized that it was essential to have the binding done in the building itself to avoid delay and possible injury to publications.

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which in many cases are not replaceable, as well as, in the case of periodicals, to have them available at all times for reference by members of the staff. The library volumes are principally in English, French and German, though almost all languages are represented.

The bindery, though small, is fairly well equipped and the very best class of binding is done by the expert binder, Mr. Shore, who has been on the staff since 1912.

In addition to the handling of the volumes the library is responsible for the sending out of all the publications of the Observatory to the various observatories, institutions and individuals throughout the world. Since a number of different lines of work are followed at the Observatory, many institutions are directly interested in only certain sections of the publications. The total distribution list contains the names of about 1,075 institutions and individuals, divided approximately as follows:-

|                            |     |
|----------------------------|-----|
| All publications           | 207 |
| Astronomy                  | 160 |
| Bibliography of Seismology | 383 |
| Terrestrial Magnetism      | 103 |
| Gravity                    | 94  |
| Seismology                 | 128 |

The library is also responsible for the looking after of some 2000 lantern slides, which are very frequently used by the members of the staff as well as individuals outside the Observatory.

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The work was so extensive that it was found necessary to have an assistant in the library from 1910; the present assistant, Mr. Saxby, has been on the staff since 1925.