



Library.

Publications

PRESENTED BY

Received: from  
June 1<sup>st</sup>, 1911, until

Periodicals,

Books purchased } at  
" donated. } back

# Librarian's Report for the Summer of 1916.

Periodicals received -

From the United States	40
" Canada & the Empire	58
" Other Countries	29
	<hr/>
	127

21 volumes of periodicals have been bound.

ROYAL ASTRONOMICAL SOCIETY  
OF CANADA

Librarian's report for summer of 1914

Periodicals received.

Published in Canada & the Empire	50
" " The United States	35
" " Other Countries	31
Total	<hr/> 118

19 volumes of periodicals have been bound  
& 11 new books have been added to the library  
by purchase &  
4 by donation (these latter being partly  
bound periodicals).

ROYAL ASTRONOMICAL SOCIETY  
OF CANADA

# Librarian's Report for the year 1914

The number of periodicals received during the year is as follows

Published in Canada & the Empire	212
" " the United States	174
" " Other Countries	186
Total	<hr/> 572

The number of Journals & Handbooks sent to exchangers - 980

The number of books added to the library by donation 8.

The number of books added by purchase 16

Books & periodicals borrowed by members - 127

1915

The number of periodicals received during the year is as follows:-

Published in Canada and The Empire	264
" " The United States	226
" " Other Countries	74
Total	<u>564</u>

The number of books added to the Library by donation - 9

" " " " " " purchase -50 including the 24 numbers of "The Observatory" to complete the set.

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The number of books and periodicals borrowed from Library- 93

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*Binding?*

Journals and Handbook sent as exchanges to

40 places in Canada and The Empire .
49 " " The United States .
24 " " Other Countries .

Number of Paid Subscribers to the Journal- 10

THE WORLD NEWSPAPER CO. OF TORONTO, LIMITED

PHONE MAIN 5308

# THE TORONTO WORLD

DAILY AND SUNDAY

TORONTO

APR 30 1920

19

*A. F. Hunter*

40 RICHMOND STREET WEST

*198 College*

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
WORDS																																
LINES																																

DATE

*Mar 1*

ADVERTISEMENTS

*Announcement*

WORDS

*51*

LINES

TIMES

*1*

\$

*102*

Librarian's Report for the summer  
of 1915 (July-Sept.)

Periodicals received -

Published in Canada & the Empire	66
" " The United States -	53
" " Other Countries	<u>19</u>
Total -	138

60 volumes of periodicals have been bound,  
18 new books have been added to the library  
by purchase & 7 by donation.

1911

- June 2x The Spectroscope and its work : H. F. Newall, M.A. }  
" { (one of the series of "Manuals of Elementary Science.") }  
" "x Popular Astronomy, June & July 1911; whole number 186  
" 5x Journal of the British Astronomical Assn, Apl, 1911; XXI, N<sup>o</sup> 7  
" "x Nature, May 25, 1911 (2169, Vol 86.)  
" "x English Mechanic, May 26<sup>th</sup> 1911 (XCIII, N<sup>o</sup> 2409  
" "x Bulletin Sismique, Nov.-Dec-Jan, 1910-11, Cartuja.  
" "x Les Tremblements de Terre enregistrés à Cartuja (Granada)  
" "x pendant l'année 1910 : (from the Société belge d'astronomie)  
" "x Boletín Mensual de la estación sismológica de  
" "x Cartuja (Granada); 3 + 4; Mch & Apl, 1911  
" "x The Astronomical Herald, Apl 1911, Vol 4, N<sup>o</sup> 1 (Japan)  
" 6x Boletín de la Sociedad Astronómica de Barcelona (May  
" 8x Lays Observatory Bulletin No. 18 (Variable Star RX 5<sup>U</sup> Leonis)  
" 7x Seven Packages of star charts, two large books  
" "x of lunar photographs, with notes, and index; France  
" "x (per Toronto University) from the Minister of Public Instruction,  
" "x Harvard Observatory Bulletin No 443.  
" 8x Boletín Mensual del Observatorio del Ebro, Aug. 1910  
" 9x Monthly weather Review, U.S., March, 1911.  
" "x Monthly Memoir of the Società degli Spettroscopisti Italiani, <sup>April</sup>  
" "x Two articles on the Solar Corona, in French, by  
" "x Professor Carl Störmer, Christiania, Norway  
" 10x The Journal of the Franklin Institute, June, 1911  
" 12x Memoirs, Royal Astronomical Society, LX, part 1  
" "x English Mechanic &c. June 2, 1911



June 12 ✓ Nature, June 1<sup>st</sup>, 1911

" " { Proceedings of the American Academy of Arts &  
+ Sciences; May, 1911; xvii Nos. 1 & 2. -

" " x Agriculture in Ontario: Unsanitary Housing:  
" x Addresses before Commission of Conservation, Ontario

" " + Lick Observatory Bulletin, 195 & 196 x

" " + Record of the Earthquake Station, St. Louis University, May

" " 14 + Publications of the Astronomical Society of the  
+ Pacific, Vol XXIII, No 136.

" " 15 + The Astrophysical Journal, June, 1911

" " 16 x L'Activité Solaire pendant l'année 1910: extrait  
x de Ciel et Terre, Nos 4 & 5, 1911. (from Cartuja

" " 19 x Ciel et Terre; Bulletin de la Société belge de, Juin, 1911

" " ✓ Nature, June 8, 1911

" " ✓ The English Mechanic, June 9, 1911

" " 20 x Proceedings of the Royal Society of <sup>Great Britain</sup> A 578, June 9, 1911

" " x The Observatory for June, 1911: No. 436

" " x "Orion": from Bucharest: "Revista Mensuala de Astronomie" <sup>Populara</sup>

" " 21 x Archives du Musée Teyler, Série 2, Vol 12, 2<sup>nd</sup> part: 1911

" " + Lick Observatory Bulletin, No 197. June 5, 1911

" " 23 + The Astronomical Journal, No 627, June 20, 1911

" " x Monthly Notices of the R.A.S., Lxxi, No 7, May, 1911

" " 24 + List of Books on the History of Science: John Crear Library

" " + New Positions of Stars in Orion Nebula: Leander McCormick

+ Observatory, Univ. of Virginia

" " + Lick Observatory Bulletin No 19

+

- June 26<sup>th</sup> Nature, June 15, 1911
- " " The English Mechanic, June 16, 1911
- " " L' Astronomie, (France) Juin, 1911
- " " + Harvard College Observatory Bulletin, 444<sup>3</sup>
- " 27<sup>3</sup> Contributions from the Mount Wilson Solar  
 " + Observatory, per Carnegie Institute of Washington  
 " + reprinted from Astrophysical Journal: Vanadium: Fe  
 " + Calcium Vapor: Fe; Electric Furnace spectra, Fe<sup>53, 57, 55</sup>
- " 28<sup>x</sup> Orion; April & May, 1911
- " " + Boletín de la Sociedad Astronómica de Barcelona <sup>June & July 1911</sup>
- " 30<sup>x</sup> Proceedings Am. Acad. A. & S., June, 1911: Volcanic action: 47-3
- " " + Boletín Mensual del Observatorio del Ebro: Sept, 1910
- " " + Manila Weather Reports, Oct & Nov, 1910.
- " " + Journal of the Astronomical Society of India, <sup>April, 1911</sup>
- " " + N<sup>o</sup> 6<sup>x</sup> (Notes I wrote saying that Nos 3 4 & 5 had not come, <sup>to be</sup>)
- " " + Monthly Memoirs, Società Spettroscopi Italiani: May, 1911
- July - " + A. M. D. G., Observatoire de Kvara, Liban, Mai, 1911
- " " Nature, June 22, 1911
- " " English Mechanic, 1911
- " " Report of H. M. Astronomie, Cape of Good Hope, ~~Sept~~ <sup>Aug</sup> 1910
- " " (Another <sup>set of</sup> Star Charts from the Minister of Public  
 " + Instruction & Beaux Arts, Paris, France.
- " 11<sup>th</sup> + Two more sets of Star charts from France.
- " " + Lowell Observatory Bulletin, 51; also Index <sup>to vol 1</sup>
- " " + Moxly's Theory of the Tides; book by J. F. Ruthven;  
 " + presented by the author, per publisher, J. D. Potter, London

1911

- July 11 (contd) + Astrophysical Journal for July 1911  
" + proceedings of the Ann. Ph. Soc., May-June, 1911  
" + containing six astronomical articles. -  
" + Monthly weather Review for March (Canada) -  
" + Astronomical Journal, No 628, July 7<sup>th</sup> 1911  
" + Harvard Observatory Bulletin, 445 (re Kees Comet.)  
" + Annals of N.Y. Academy of Sciences, May 10, 1911  
" + " " " May 15, 1911  
" + Nature, June 29, 1911  
" + English Mechanic, June 30<sup>th</sup> 1911 -  
" + The Astronomical Herald (Japan) May, 1911  
" + " " " June  
" 12 + Harvard College Observatory Bulletin, No 446, dated  
" + July 10<sup>th</sup> 1911, giving position of Kees' Comet on July 7 & 8.  
July + Popular Astronomy, June & July, 1911  
" + Harvard College Observatory Bulletins, 448,  
" + 449, 450, & 451, Brooks & Kees Comets.  
" + Proceedings of the Royal Irish Academy, Sec A, 2 & 3  
" + The Observatory for July, 1911; No 437  
" + Proceedings of the Royal Society, July 5, 1911  
" + Bulletin del'activite' solaire, Jan. Feb. March, 1911  
" + Journal of the British Astronomical Assn., May & June 1911  
" + " Astronomical Society of India, May, 1911; No 7.  
" + Orion, June 1911; No 10; from Bucharest  
" + Nature July 6<sup>th</sup> & 13<sup>th</sup>, 1911  
" + English Mechanic, July 7<sup>th</sup> & 14<sup>th</sup> 1911

1911

- July { University of Toronto studies: Papers from the  
2 Chemical Laboratories, Nos 90, 91, 92 + 93  
" + Journal of the Franklin Institute, July, 1911  
" + U.S. Monthly Weather Review, April, 1911  
" + Publications of the Allegheny Observatory, Vol 2,  
" + 11, 12, + 13; Feb + March, 1911.  
" { Annals, Harvard College Observatory, Vols 56-5,  
+ 59-7, 59-8, 64-7, & Vol 68, No 2.  
+ Circulars 164 + 165, Harvard Coll. Observatory, Feb + <sup>1911</sup> April.  
July 26 + Harvard Observatory Bulletin No 452. July 24.  
" 27 + " " " 453 " 25  
" " + " " " 454 " 25  
" . x K. Beyer Akademie der Wissenschaften: 5 pamphlets  
" . { Chicago Academy of Sciences: 1910 Report, and announcements  
+ { (2 pamphlets.)  
" . x Proceedings of the Royal Society of Queensland.  
August x Am. S. O. Observatoire de Ksara, June, 1911.  
" + Manila Weather Bureau Bulletin, Dec, 1910  
" x { Journal of the College of Science, Imperial Univ. of  
" { Tokyo: re variables of Alged type: Jan 18, 1911  
" { Annals of the Astronomical Observatory of Tokyo, 1910  
+ { (Report of Eclipse of the sun in Jan 1898. (Jan 22)  
" { List of Fellows and Associates of the Royal Astronomical  
" x { Society of Great Britain, June 1911  
" + Popular Astronomy, in August + September, 1911

1911

- August Alphabetic Catalog of books, pamphlets, and  
" Epitomes in the Library of the Royal Obs. of Belgium <sup>1910</sup>  
" x L'Astronomie: France: July, 1911  
" x Ciel et Terre: Belgium: July, 1911  
" + Journal Franklin Institute, Aug, 1911.  
" x English Mechanic, etc. July 21 & 28, 1911  
" Nature July 20<sup>th</sup> & 27<sup>th</sup> 1911  
" + Proceedings Am. Acad. Arts. & Sci., July, 1911; 47-<sup>48</sup> 5, 6, 4, 5, 6, 7  
" x Austr. Herald, Japan, July, 1911.  
" x Proceedings Royal Socy of Edinburgh, Session 1910-11, Vol 31 <sup>Part IV</sup>  
" x Bulletin Semaine, Feb-Mch-Apr, 1911: Cartuja, Granada  
" x Boletín Mensual, Estación Simbólica de Cartuja, May & June  
" x Italian Bulletin, Spectroscopic Society, "Guigno", 1911  
" <sup>see below</sup> + Lick Observatory Bulletin No 200, July 28, 1911  
" x Transactions Canadian Institute, Aug, 1910, part 1  
" + Publications of the U.S. Naval Observatory, 2nd  
" Series, Vol XVI and Vol XVII: being 2 bound books.  
" x Boletín Mensual del Observatorio Meteorológico  
" Magnético Central de Mexico: Aug, Sept, Oct,  
" x Nov. & Dec, 1906! and April, May, June, July &  
" Aug, 1910; Oct & Sept, 1910; Jan, Feb, Mch & Apr, 1911.  
" x Report of the Library Syndicate of Cambridge, Eng. <sup>for 1910</sup>  
" x Monthly Notices, Royal Ast. Socy, London Eng: June 1911  
" <sup>see above</sup> + Lick Observatory Bulletin, No 198, July 21, 1911  
" + Harvard Observatory Bulletins, 455 & 456  
" x Annals de l'Observatoire Royal de Belgique } Tome x11 fasc 2  
" " " " } " x11 " 1

- Habana.
- (to?)
- Aug x Memoria, Sociedad Astr. de Francia, Luis J. de Carballo, x
- " x Map of the Moon, in 25 sections: W. Goodacre
- " x Greenwich observations for 1909.
- " x Knowledge for August, 1911
- " + Nature, for August 3rd & 10<sup>th</sup>, 1911
- " + Annuaire de l'Université Laval, <sup>nos 55</sup> for the academic year, <sup>1911-12</sup>
- " + Observations of Halley's Comet, Helwan, Egypt
- " x Boletín de la Sociedad Astronómica de Barcelona <sup>Aug-Sept 1911</sup>
- " x German pamphlet from Heidelberg.
- " + Harvard Observatory Bulletins, 457 & 458 (August)
- " + Proceedings of the American Philosophical Socy, July-Aug, <sup>1911</sup>
- " { The Scientific Proceedings of the Royal Dublin Society,
- " x { Dec, 1910; Feb, Apr, May, June, & July, 1911; eleven pamphlets
- " + The Observatory (Greenwich) for August, 1911
- " + Summaries, Geophysical & Meteorological Observations: Met-Office, London.
- " + Pamphlet re results at Kew Observatory, 1907 to 1909
- " + Oxford Astrographic Catalog, Vol VII, Zone +25.
- See <sup>off</sup> ~~of~~ route x + Lick Observatory Bulletin, 199; Nov. 1910.
- Aug + Harvard College Observatory, Circular 166, June, 1911
- " + Journal of the Astronomical Society of India, <sup>N<sup>o</sup> 8</sup>, June
- " 22 x L' Astronomie, August, 1911 (Société astr<sup>on</sup> de France)
- " { 25 feuilles de la carte photographique du ciel, en 2
- " x { paquets: from Natl Astr Obs. of Tacubaya, Mexico.
- " + Earthquake Record, St. Louis Univ, June 1 to July 31, 1911
- " 28 Estadística Foto-Heliográfica: for Jan to June, 1911,
- " x from Astr. Obs. of Cartuja.

1911

- Aug 28 + Proceedings of the Royal Society, Aug 15, 1911  
" " Nature, Aug 17, 1911  
" " ✓ English Mechanic, Aug. 4, 11, + 18, 1911  
" " + Harvard College Obs. Bulletin, 459.  
" " × A.M.D.G. Observatoire de Ksara, July, 1911  
" " + Monthly Journal, Italian Spectroscopic Society, July, 1911  
" " + Report of Commission on Conservation re Lands,  
" " + Fisheries + Game, Minerals, for 1911 (Book.  
" 30 + Proceedings and Transactions of the Royal  
" " + Society of Canada; 3<sup>rd</sup> Series, Vol IV, meetg of Sept 1910  
" " × Memoirs + Reviews of the Sociedad Científica  
" " × Antonio Alzate; July to Dec, 1909, and (2) Nov. 1910  
" " + Manila Weather Bureau, Jan, 1911.  
Sept 1 + Memoirs, Royal Astronomical Society, Vol LX, part 2  
" " { General Index to the Monthly Notices of the Royal  
" " { Astronomical Society from 1822-1910, and to  
" " { their illustrations in Memoirs + M.N., 1822 to 1910  
" 2 + Lick Observatory Bulletin, N<sup>o</sup> 201, Aug 1911  
" " + Astronomical Journal: Index + Contents of Vol 26: <sup>1908</sup> to 1911  
" 5 - English Mechanic, Aug 25, 1911  
" " - Nature, Aug 24, 1911  
" " + Monthly Weather Review, U.S.A., May, 1911  
" 7 + Observations on Meridian Circle, <sup>in German</sup> (Publications of  
Copenhagen Obs.  
N<sup>o</sup> 3.  
" " + Contributions from \*Mount Wilson Solar Observ<sup>y</sup>, No 56  
" " × A.M.D.G., Observatoire de Ksara, July, 1911  
" " + Index to Contributions from \*M.W.S.O., Vol 2, +31-52

- Sept 7 + Harvard Observatory Bulletin 460, Sept 5, 1911
- " 8 + Astrophysical Journal for Sept, 1911
- " 11 + Annual Report, Cambridge Observ. & Lyndicate.
- " " + Knowledge, Sept, 1911
- " " + Index to U.S. Monthly Weather Review.
- " " + Journal of the Franklin Institute, September, 1911
- " " + English Mechanic, Sept 1, 1911
- " " + Nature, Aug 31, 1911
- " 13 + N<sup>o</sup> 137, Vol 23, Pubns Astron<sup>l</sup> Society of the Pacific
- " 14 + Monthly Memoirs, Catania, <sup>Italy</sup> August, 1911
- " " + Astronomical Observations, 1910, Firenze, Italy
- " 16 + The Observatory, Sept, 1911, No 439
- " " + Proceedings of the Amer<sup>l</sup> Philos<sup>l</sup> Society, Sept, 1911
- " " + Book Catalog of W. Heffer & Sons.
- " 18 + Publications of the Lick Observatory, Vol IX, 1907-1911
- " " + Nature Sept 8<sup>th</sup> 1911
- " " + English Mechanic, Sept 7
- " " + Bulletin de l'Observatoire de l'Ebre (Ebro) Oct + Nov, 1910
- " 19 + Journal of the Astronomical Society of India;  
 + 3, 4, 5 (back numbers) and current issue, July, (N<sup>o</sup> 9)
- " " + Canadian Monthly Weather Review for April, 1911
- " 20 + Lick Observatory Bulletin, N<sup>o</sup> 2, Sept 11, 1911
- " 23 + U.S. Monthly Weather Review, June, 1911
- " " + Educational opportunities in Chicago, (June 1911)
- " " + Harvard Bulletin 461, Sept 21, 1911
- " 25 + Leeds Ast<sup>l</sup> Society: Journal & Transactions, 1910



1911

- Sept 25 + G. M. O. G. Observatoire de Ksara, August, 1911  
" " + Nature, Sept 15<sup>th</sup> 1911  
" " + English Mechanic, Sept 14, 1911  
" 27 + Harvard Bulletin, 462. } re Quénisset's  
" 28+ " " 463 } Comet, vis. in Op. Glass.  
" 30+ " " 464 }  
" + List of Members of British Astronomical Assn  
" + Popular Astronomy, October, 1911  
" + Manila Weather Bulletin, February, 1911  
" + The Eruption of Taal Volcano, January, 1911 (from Manila W.B.)  
\* Oct 4<sup>th</sup> + \* Harvard Bulletins 469 + 470  
and 9<sup>th</sup> + Annuaire Astronomique de l'observatoire }  
" + } Royal de Belgique for 1912 }  
" + } Astronomie, (Paris) Sept 1911 }  
" { 3 pamphlets in French by ~~Dr~~ Dr Lucien Libert,  
+ { (1) on Mira Ceti; (2) catalog 1371 étoiles filantes;  
" { (3) catalog 25 bolides.  
" + List of 1059 Standard Stars for 1910: Lewis Boss.  
" + The Astronomical Herald (Japan) Aug <sup>and Sept</sup> 1911 -  
" + English Mechanic, Sept 22 + 29<sup>th</sup> 1911  
" + Nature, Sept 21 + 28<sup>th</sup> 1911  
Oct 10 + Earthquake Station, St. Louis: record, Aug 1 to Sep 30.  
" + \* Harvard Bulletins, 465, 466, 467, 468 +  
" + 471, and 472  
Upto 18<sup>th</sup> + Proceedings, Royal Society Queensland, Vol XXIII, Part I  
" + Gazette astronomique, Antwerp, Nos 45 + 46

1911

October

- Up to 18<sup>th</sup> } Boletín Mensual del Observatorio Meteorológico  
" x Magnético Central de Mexico, Feb, Mar, Apr, May, 1911  
" x Monthly Weather Review, U.S.A., July, 1911.  
" x " " " Canada, May, 1911  
" x Boletín Mensual, Obs. del Ebro, Diciembre de 1910  
" x Knowledge, October 1911  
" x English Mechanic, Oct 6, 1911  
" x Nature, Oct 5, 1911  
" x Publications, Astron<sup>l</sup> Society of the Pacific, Oct. 1911  
" x 'Self-Luminous Night Haze': E. E. Barnard  
" x The Conjunction of Mars & Saturn, 1911 Aug. 16: <sup>E. E. Barnard</sup>  
" x Annals of the New York Academy of Sciences, <sup>Vol XX</sup> part III  
" x Journal of the Franklin Institute, October, 1911  
" x The Observatory, October 1911 (Greenwich.)  
" x Proceedings of the Royal Irish Academy July, 1911  
" x Report of the Chief Astronomer, 1908-9: Canada  
Oct 19 x The Astrophysical Journal, October 1911  
" " } Boletín Mensual del Observatorio Meteorológico &  
" x Central de Mexico; May & June, 1907; Nov. & Dec. 1910; Jan. 1911  
" 20 x Harvard Bulletin, 473, (Beljanskij's Comet.)  
" " x Orion, July-August, 1911 (Bucharest)  
" 21 x Ciel et Terre, (Belgium) Sept, 1911.  
" 23 x Harvard Bulletin, Oct 20, 474  
" " x Nature, Oct 12, 1911  
" " x English Mechanic, Oct 13, 1911  
" " x Manila Weather Bulletin, March, 1911

1911

- Oct 25 x A. M. D. S. Observatoire de Kasara, Sept, 1911  
" " x Monthly Bulletin, Società de Italiani, Sept, 1911  
" " x Photographic Determinations of Stellar Parallax, made with  
x the Yerkes Refractor; reprinted from Astrophys. Jour.  
" " x Annuario Astronomico, per 1912: published by the  
x Regio Osservatorio di Torino, Italy  
Oct 26 x L'Astronomie (Paris, France) Sept, 1911  
" " x Harvard Bulletin, 475  
" " x U.S. Naval Observatory, Miscellaneous Papers <sup>in 3 parts</sup>  
" 27 x Boletín de la Sociedad Astronómica de Barcelona, <sup>1911</sup> octubre  
" " x Proceedings of the Royal Society, A 581, Oct 18, 1911  
" 28 x Harvard Bulletin, 476  
" " x Nature, Oct 19, 1911  
" 31 x Harvard Bulletin 477  
" " x Popular Astronomy, November, 1911  
" " x Memoirs of the British Astronomical Association  
x (Observation of Jupiter)  
" " x Journal of the British Astronomical Association  
" " x English Mechanic, Oct 20<sup>th</sup>, 1911  
Nov. 2 x Harvard Observatory Circular, 167.  
" " x Potsdam <sup>observatory</sup> publication - Sonderabdruck etc  
" " x Publications of Copenhagen Observatory, Nos 4 & 5  
" 6 x Nature, Oct 26<sup>th</sup>, 1911  
" " x Bulletin of the St Louis University: Seismology  
" 7 x English Mechanic, Oct 27, 1911  
" " x Journal & Proceedings of the Hamilton Association, <sup>1908-9 and</sup> 1909-10.

1911

- Nov. 8 + Manila Weather Bureau for April, 1911  
" " + Weather Map for October, Dominion of Canada  
" " + Orion (Bucharest) Sept, 1911  
" 10 + Monthly Weather Review, U.S.A., August, 1911  
" 11 + Annals of Harvard Observatory, <sup>vol</sup> 62, part 2, <sup>no</sup>  
" " + " " " " <sup>vol</sup> 71, No 2  
" " + Transactions of the Wisconsin Academy of Sciences,  
(6 Books) + arts & letters, 3 parts for 1909 + 3 parts for 1910.  
Nov. 11 + 6<sup>th</sup> Annual Report, British Meteorological Committee  
" 13 + Nature, Nov. 2, 1911  
" " + English Mechanic, Nov. 3, 1911  
" " + Scientific Proceedings of the Royal Dublin Socy, Aug<sup>1911</sup>  
" " + Economic " " September 1911  
" " + Journal of the Franklin Institute, Nov. 1911  
" 17 + Bulletin de l'activite solaire, aft, May June, 1911 (Cartuja)  
" " + " del Observatorio meteorologico magnetico central <sup>de Mexico</sup>  
" " + <sup>65<sup>th</sup></sup> Annual Report, Harvard Observatory: year ending <sup>Sept 30</sup> 1910  
" " + New Theory of the Aurora Borealis: in French: M. de Kerillis.  
" 18 + Harvard Bulletin 478, Nov. 16, 1911  
" " + Knowledge, November, 1911  
" " + Ciel et Terre, (Belgian) October, 1911  
" 20 + The Observatory, November, 1911.  
" " + " Astrophysical Journal, November, 1911  
" 21 + English Mechanic, Nov. 10<sup>th</sup> 1911  
" " + Monthly Notices of the R.A.S. Vol lxxi, N<sup>o</sup> 9.  
" 22 + Nature, November 9<sup>th</sup> 1911

- Nov. 23 + The Astronomical Journal, No. 629; Nov. 20, 1911
- " " + Herald, Japan, Oct, 1911
- " " + On Three remarkable typhoons; Manila Weather Bureau <sup>Bulletin</sup>
- " 24 + Seven German pamphlets from Munich, (part of University)
- " " + L'Astronomie; Bulletin of the Ast. Soc. of France; Nov. 1911
- " 26 + Nature, Nov. 16<sup>th</sup> 1911
- " " + English Mechanic, Nov. 17, 1911
- " " + Journal of the British Astronomical Assoc. <sup>Oct</sup> 1911
- " 28 + Monthly Bulletin, Italian Spectroscopical Society, Oct, 1911
- " " + Report of the Meteorological Service of Canada, 1907: <sup>two</sup> vols.
- " 30 + Manila Weather Bureau, Bulletin for May, 1911
- " " + Popular Astronomy, December, 1911, with index
- " " + A. M. D. G., Observatoire de Kava: October 1911
- ~~Dec~~ 4 - Harvard Bulletin, 479, Dec 2<sup>nd</sup> 1911
- " " - Nature, Nov. 23, 1911
- " " - English Mechanic, Nov. 24, 1911
- " " - American Academy of Arts & Sc.; 47-8, 47-9.
- " 6 - Harvard Bulletin, 480, Dec 4<sup>th</sup> 1911
- " 7 - The Astronomical Journal, No 630: Dec 4/11
- " 8 - Gazette astronomique, Antwerp. Nov. 25, 1911
- " " - Harvard Bulletin, 481; Dec 7, 1911.
- " " - Monthly Weather Review, U.S.A; September 1911
- " 11 - Nature, Nov. 30<sup>th</sup> 1911
- " " - English Mechanic, Dec 1<sup>st</sup> 1911
- " " - Harvard Bulletin, 482
- " 12 - Proceedings of the Royal Society, a 582

- Dec 13 - Lick Observatory Bulletins, 203, 204, 205.
- " 14 - Harvard Bulletin, 483
- " 15 - Journal of the Franklin Institute, December.
- " 18 - The Nautical Almanac <sup>for</sup> 1914 (British) (Book)
- " " - Harvard Observatory Circular 168: Nov. 10, 1911
- " " - Bulletin of the Astron<sup>l</sup> Socy of Barcelona, Nov., 1911
- " " - December publication of Astr<sup>l</sup> Socy of the Pacific (1911)
- " " - Bulletin of the Belgian Astron<sup>l</sup> Socy, Nov, 1911
- " 19 - English Mechanic, Dec 8<sup>th</sup> 1911
- " " - Nature, Dec 7<sup>th</sup> 1911
- " " - Annual, Nat<sup>l</sup> astron. obs. of Tacubaya (book)
- " " - Astronomische Mitteilungen, N<sup>o</sup> 102. (German)
- " 20 - Astrophysical Journal, December, 1911
- " 26 - L'Astronomie; Bulletin of Astr<sup>l</sup> Socy of France, Dec, 1911
- " " {Including list of members, index for 1911, cover for year etc
- " " - Nature, December 14, 1911
- " " - The English Mechanic, Dec 15<sup>th</sup> 1911
- " " - Monthly Bulletins of the Ebro Observatory, Jan, 1911
- " " " " " " Feb, 1911
- " 27 - Allegheny Observatory papers: Vol 2, N<sup>o</sup> 1
- " " - Monthly Notices, R.A.S., Nov. 1911
- " " - Bulletin of the Sun's Activity, July, August, Sept, 1911
- " " - Knowledge, December 1911: with the year's index.
- " 29 - Popular Astronomy for January, 1912.
- " " - The Observatory, December, 1911
- " " - Companion to The Observatory, 1912.

1911

- Dec 30, Annals of the New York Academy of Sciences, published  
2 July 5, Aug 26, Oct 14<sup>th</sup>.
- " " Smithsonian Publications, 2027, 2028, 2029, 2030;  
" " { "The Solar Constant of Radiation"; "Astronomical  
Problems of the Southern Hemisphere"; "The Progressive  
Disclosure of the Entire Atmosphere of the Sun"; and  
Recent Progress in Astrophysics in the U.S."
- " " - A.M.D.G., Syria; November, 1911
- " " - Orion, for October, 1911 (Bucharest).
- " " - " " November & December, 1911 "
- 

1912

- Jan 3 - Nature, Dec 21<sup>st</sup> 1911
- " " - English Mechanic Dec 22<sup>nd</sup> 1911
- " " { Seismological Bulletin from Baldini Observatory,  
Capannoli, Pisa (five loose sheets)
- " " 3 - Bulletin de la Société d'Astronomie Populaire  
de Toulouse, two issues: 1910 & 1911.
- " " 4 - ~~3~~ Bulletin N<sup>o</sup> 1, National Observatory, Cordoba,  
Argentina; 2 copies; dated Sept 1911; in Spanish & English.
- " " - Proceedings of the Royal Society; Dec 22, 1911
- " " 5 - " Ann<sup>o</sup> Academy of Arts & Sciences: 47/10, 11, 12 <sup>see, 1911</sup>
- " " 6 - <sup>Hefwan</sup> Bulletin N<sup>o</sup> 1, Survey Department, Egypt; Khedivial observ<sup>y</sup>
- " " - Journal of the British Astronomical Association <sup>Nov 1911</sup>
- " " 7 - Monthly Bulletin, Italian Spectroscopic Society, Nov. 1911
- " " 8 - U.S. Monthly Weather Review for October, 1911

1912

- Jan 9 - Monthly Weather Review, Canada, Aug, 1911  
" " - Nature, Dec 28, 1911  
" " - English Mechanic Dec 29, 1911  
" " - "The foundations of Cosmogony", by J. J. See. This  
- } is an article in the English Language, forming  
- } part of the November Bulletin of the Spectroscopic  
- } Society of Italy; the remainder of the Bulletin being in Italian.  
Jan 10 - Manila Weather Bureau for June, 1911  
" " - Proceedings of the Amer Philosophical Society, Oct-Dec<sup>1911</sup>  
" " - Astronomical Herald, December, 1911 (Japan)  
" 14<sup>th</sup> " " November! 1911 (Japan)  
" 15 - " Annual Flammarion, 1912 (in French)  
" 15 - Record of St. Louis Earthquake Station, Oct to Dec, 1911  
" 16 - Bulletin of the Natural History Society of New  
" " - Brunswick, N<sup>o</sup> 29; Vol VI, part 3; 1911  
" " - Boletín de la Sociedad Astronómica de Barcelona, Dec<sup>1911</sup>  
" 18 1/2 " Mensual del Observatorio Meteorológico Central,  
" " - Mexico; August & September, 1911  
" " - Bulletin N<sup>o</sup> 2 Khedivial Observatory, Helwan, Egypt.  
" " - Nature Jan 4<sup>th</sup> 1912  
" " - English Mechanic, Jan 5, 1912  
" \* 22 - Journal of the Franklin Institute, Jan, 1912 (Phie.)  
" " - Monthly Bulletin, Ebro Observatory, March 1912  
" \* 20 - Harvard Obs. Annals, Vol 72, N<sup>o</sup> 1. June 19, 1911  
" " - Contents of Harvard Obs. Annals.  
" 23 - L' Astronomie (France) Jan, 1912



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- Jan 73 - The Observatory (Greenwich) Jan, 1912.  
" 24 - Nature, Jan 11<sup>th</sup> 1912  
" " - English Mechanic, Jan 12, 1912  
" " - Knowledge, Jan 1912  
" " - Publications of the Astronomical Society of (U.S.)  
" " - Pomona College, June, 1911, October, 1911, & Dec., 1911  
" 25 - Popular Astronomy, Jan, 1912.  
" 26 - Copenhagen Observatory Publications, No 6 (in French)  
" 27 - astronomical Journal, 631, Jan 23<sup>rd</sup> 1912  
" " - Ciel et Terre (Belgium) Dec, 1911  
" 29 - Popular Astronomy, February, 1912  
" 30 - English Mechanic, Jan 19, 1912  
" " - Nature, Jan 18<sup>th</sup> 1912  
" 31 - Canadian Monthly Weather Review, Sept, 1911  
" " - Journal, Astronomical Society of India, Nov. 1911  
" " - Monthly Notices, R.A.S., December, 1911  
Feb 1<sup>st</sup> - Proceedings of Amer<sup>n</sup> Acad. of Arts & Sciences 47-13  
" " " " " " " 14  
" " " " " " " 15  
" 2 - Harvard Observatory Bulletin, Jan 30, 1912  
" " " " Circular 169, Dec 14, 1911  
" " U.S. Monthly Weather Review, November, 1911  
" 5 - Nature, Jan 25, 1912  
" " - English Mechanic, Jan 26, 1912  
" " - Journal of the British Astronom<sup>l</sup> Assn, Dec, 1911

- Feb 7 > A.M.D.G., Observatoire de Ksara, Syria, Dec, 1911  
 " " > Bulletin 3, Helwan Observatory, Egypt, Dec, 1911  
 " " > Lick Obs. Bulletin 206, June 8, 1911  
 " 10 > Memoirs Italian Spectroscopic Society, December 1911  
 " " > " " " " " Index for 1911  
 " " > Lick Obs. Bulletin Index & Contents, Vol VI, 1910-11  
 " " > Journal of the Franklin Institute, Feb, 1912  
 " 13 > Nature, Feb 1<sup>st</sup>, 1912  
 " " > English Mechanic Feb 2, 1912  
 " " > Monthly Bulletin del Observatorio del Ebro, April, 1911  
 " " > Proceedings of the Royal Society, Jan 31, 1912  
 " Feb > Astron. Researches, Utrecht Observatory: IV. 1911  
 " " > " " " " " " " " V " "  
 " " > The Observatory, Feb, 1912  
 " 19 > Knowledge, Feb, 1912  
 " 20 > Nature, Feb 8<sup>th</sup> 1912  
 " " > German Book from the Prague Observatory:  
 " " > Beobachtungen, 1905 to 1909.  
 " " > Proceedings of the Royal Society of Edinburgh  
 " " > Vol XXXI, Part V, p. 577 to 782  
 " 2. > English Mechanic, Feb 9<sup>th</sup>, 1912  
 " Feb > Publications of the Astronomical Society of the  
 " " > Pacific; Feb, 1912  
 " " > L'Astronomie; Bulletin of the Astronomical  
 " " > Society of France; Feb, 1912

Feb 26 Photographic <sup>Star</sup> Charts, - from Tacubaya  
Observatory, Mexico.

" " ✓ El Clima de la Ciudad de Guadalajara: 1911  
" " ✓ Orion: January, 1912; Bucharest, Roumania  
" 27 ✓ Monthly Notices, R.A.S., January, 1912  
" " ✓ A.M.D.S., Observatoire de Ksara, Syria; Jan 1912  
" " ✓ Observations & Studies of Professor Severo Diaz, 1909  
" " ✓ " " " " 1910  
" " ✓ Bulletin of the Astron. Society of Barcelona, Feb, 1912  
" " ✓ Astronomical Journal, Feb 15, 1912, # 632  
" " ✓ Monthly Bulletin of the 'Seismological' Station  
of Grenada; December, 1911.

Feb. 28 ✓ Nature - Feb. 15, 1912

" " ✓ English Mechanic - Feb. 16, '12 and Index to v. 94.

Mar. 1 Boletín Tacubaya Observatory (Mexico) - no. 1. 1911. <sup>(Jan - June)</sup>

" 2 ✓ Popular Astronomy, March, 1912 (U.S.)

" " ✓ Gazette Astronomique - Antwerp. - Feb 5.

" " ✓ Proceedings of the Royal Soc. - Feb. 20, 1912.

" 4 ✓ English Mechanic, Feb 23, 1912.

" 5 ✓ Nature, Feb. 22, 1912.

" 6 ✓ Jn. of the Astronomical Soc. of India, Dec. 1911. <sup>(and Index v. 1)</sup>

" 9 ✓ Canadian Weather Review, Oct. 1911.

" " ✓ Memoir of the Spectroscopic Soc. of Italy - Jan. 1912.

" 11 ✓ Jn. of the Br. Astron. Ass'n. - Jan. 1912.

✓ Memoirs of Br. Astron. Ass'n - Report 1905-9 - Variable S  
Ebro (Spain) Observatory Bulletin, May 1911 (v. 2 - 7)

— March —

- Nov. 13, > English Mechanic, for March 1<sup>st</sup>. 1912.  
 " > Nature, Feb. 29 - 1912.  
 " > London - Proceedings of the Royal Soc. - Series A. 2. 86 - No. 4586.  
 " 14 U.S. Monthly Weather Review, December, 1911.  
 " " Japan, Astronomical Herald, Jan, and Feb. 72, 76.  
 " " Harvard Bulletins, 485, and 486 - 1912  
 " " Franklin Inst. Journal (Phil) March, 1912.  
 18 English Mechanic March 8<sup>th</sup> 1912  
 " > Nature, March 7<sup>th</sup> 1912  
 " " Harvard Bulletins 487 + 488  
 " > Greenwich - The Observatory, March, 1912  
 " > India - Journal of the Astron. Socy of I., Jan 1912  
 " " Belgium: Ciel et Terre, Feb., 1912.  
 " 19 Harvard Bulletin, No. 489.  
     <sup>sid</sup> <sup>sid</sup> <sup>sid</sup> <sup>sid</sup> <sup>sid</sup>  
     Bulletins 485, 486, 487, 488, 489 sent to be read at the  
     Physics Bldg. March 19 - 1912.  
 " 21 Manila (U.S.) Weather Bulletin for July, 1911.  
 " " Pittsburgh. Publications of the Allegheny Observatory: 22, No. 14.  
 " " Germany; Heidelberg Observatory publications - 9 nos.  
 " 22 Copenhagen: Publications of the Tobenhavn Obs. - No. 7.  
 " 23 Harvard College Bulletin, No. 490.  
 " 25 Knowledge (London), for March 1912.  
 " 25 Granada: Relacion Annual del Observ. Astron. de Cartuja. 1911.  
 " " Nature: March 14 - 1912.  
 " " > English Mechanic, March 15, 1912.

— March —

Mar. 28. Harvard College Bulletin, no. 491. — Mar. 26. 12  
~~Apr. 7.~~

— April —

- Apr. 1. France, Bulletin de la Société Astron. Populaire, — Nos. 3 & 4. 1911  
" 2. Spain: (Barcelona) Boletín de la Sociedad Astron. de Barc. <sup>March</sup>  
" " London: Nature, March 21, 1912.  
" " " : Eng. Mechanic, March 22, 1912.  
" " + U.S.A. : Popular Astronomy, April, 1912  
" " Lima, Peru: Boletín de la Soc. Geográfica de Lima  
" " ~~Spain: B~~ Dec. 1909 & Feb. 1910  
" " Spain: Boletín Mensual del Observatorio del Ebro. June 1911.  
" " London: Jr. of the Br. Astron. Ass'n. Feb. 1912.  
" " Ottawa: Comm. of Conservation; (Committee on Public Health)  
The Prevention of the Pollution of Canadian surface waters.  
Apr. 3. + Washington: Report of U.S. Naval Observatory, 1911  
" + Chicago: Astrophysical Jr. — March. 1912.  
" 6 + Boston: Proceed. of the Amer. Acad. of Arts & Sc. Nos. 16 <sup>v. 47.</sup> 6-21  
" 6 + U.S. : Carnegie Inst. of Washington; Contrib. no 58, & Annual Rept. 1911  
" 6 Canadian Weather Review, Nov. 1911  
" 8 + U.S. Publications of the Astronom. Soc. of Pasadena, Cal. <sup>Feb. v. 1.</sup> no. 4  
" + U.S. : Jr. of the Franklin Inst. April, 1912. v. 173, no. 4.  
" " London: Monthly notices of the Royal Astron. Soc. Feb. '12.  
" " Nature: March 28.  
" " Paris: Annual Report of the Observatory of Paris. 1911

— April, 1912 —

- Apr. 10<sup>th</sup> English Mechanic, March 29. — 1912.  
" " Proceedings of the Royal Soc. (London) No. 2587.  
" " Russia's Policy in Finland (Pamph. (trans.) printed in London. Wyman & Sons.)  
Apr. 11<sup>th</sup> Rome: Specola Astronomica Vaticana  
1. La Rotation de la Terre  
2. " " Appendice.  
3. Galiste III et la Comète de Halley.  
Apr. 12<sup>th</sup> English Mechanic, Apr. 3<sup>rd</sup>. 1912.  
" 15<sup>th</sup> Nature, Apr. 4. 1912.  
" " Br: Meteorol. and magnetic year-book. Pts 16-8, Jan-Aug. 1912.  
" " + U.S.: Monthly Weather Review, Jan. 1912.  
" " Knowledge, April, 1912.  
" " + California: Pub. of the Astron. Soc. of the Pacific, April, 1912.  
" " France: L'Astronomie. Mars, 1912.  
" " Japan: Astronomical Herald, March, 1912  
" " (Br.) India: Jn. of the Astron. Soc. of India.  
" " + U.S.: Pro. Amer. Philos. Soc. — Jan-Mar-12.  
" " France: L'Astronomie. April, 1912.  
" " Italy: Memorie della Soc. Degli Spettroscopisti. Italy, (Feb.) Catania.  
" " + U.S.: Bulletin of the Weather Bureau of Manila, Aug, 1911.  
" " Japan: Annals of the Astron. Obser. of Tokyo. v. 5, pt 1<sup>911</sup> 1912.  
" " Eng: Proceedings of the Royal Soc. <sup>of Edinburgh</sup> v. 37, part 1.  
" " Romania: Orion, Februarie, 1912 (Bucuresti).  
" " Nature: Apr. 11-12.  
" " Eng. Mechanic, Apr 12-12. and index for v. 88.

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April - cont'd.

- Ap. 25<sup>th</sup> ~~U.S.~~ Canada: (Com. of Conservation), Protest against further drainage of water from L. Mich. for Chic. drainage <sup>Canal</sup>
- " + U.S. Astrophysical Jr. for April, 1912.
- " + " Lick Observatory & Sallatus, no 2. 207, 208, 209.
- " 26. Canada: Observatory of Carrija. "La Comete Brooks."
- " Italy: Memorie della Societa Degli Spettroscopisti Italiani (March.)
- " 27. + U.S. Astronomical Journal, Albany, N.Y. no 2. 633-4 (v. 27 - nos. 9-10)
- " + U.S. Harvard Coll. Ob. Pub. - Annals, v. 59, no. 9. and 4 circulars
- " " Canadian Monthly Weather Review, Dec 1911
- " 29. Eng: Geophysical Jr. (Meteor. office Obsv.) Sep 1911, no. 9.
- " " Ksara (Libana) Observatoire de, Beyrouth, Syrie <sup>Feb.</sup>
- " " Anvers (Belgium) Gazette, Astronomique. Ap 15-12
- " 30. English Mechanic; Ap 19 - 1912.
- " " Nature Apr 18 - 1912.
- " + U.S. Monthly Weather Review for Feb. - 1912
- " " Eng: Monthly notices of the R. A. Soc. Mar 1912

Total ---	79	}	Canada & the Empire ---	30
for April			U.S. ---	48
			Other Countries ---	21

79.

1912

May:

- May 1. U.S.: Popular Astronomy, May 1912.
- " 2 " : Carnegie Inst. of Wash. - 10<sup>th</sup> Anniversary.
- " 4 Spain: Boletín de la Soc. Astron. de Barcelona, ap 12.
- " 4 Berlin: Astronomisches Jahrbuch für 1914. Mit etc.
- " 6 U.S.: Publications of the Allegheny Obser. - Pittsburgh nos. 15, 16.
- " 6 " : Lick Obser. Bulletin, no 210.
- " 7 " : Bulletin of St. Louis Univer. (Geoph. Ob.) Ap. 12.
- " " Eng: Jn. of the Br. Astron. Soc. - March, 1912.
- " " " : Proceedings of the Royal Soc, No. A. 588.
- " 8 " : Nature, Ap. 25. - 1912.
- " 9 " : Eng. Mechanics, Ap 26 - 1912.
- " " Canadian: "Progress of the Tide in Deep Inlets etc"  
From the Transactions of the Royal Soc. of Canada  
Third Series - 1911. V. 5, section 3.
- May 13. U.S.: Jn. of the Franklin Inst. - May, 1912.
- " France: Bulletin de la Société d'Astronomie Populaire <sup>no. 572</sup>
- " 14 Knowledge, May, 1912.
- " Nature, May 2, 1912.
- " English Mechanics, May 3, 1912.
- " " : Boletín Mensual del Observatorio del Ebro <sup>July 11</sup>
- " 18 Toronto: Meteorological, etc results for 1910 - R.F. Steph.
- " Eng: The Observatory, for May 1912.
- " 20 " : Br. Ass. for the advancement of Science, Rpt. 1911.
- " " : Proceedings of the Royal Soc. Ser. A. v. 86, no. A 580.



Periodicals Recd.

1912

May cont'd.

- May 20 English Mechanic, May 10<sup>th</sup> 1912.  
 " Eng: Nature, May 9<sup>th</sup> 1912.  
 " Canada: Pro. and Trans. of the Nova Scotian  
 Institute of Science, v. XII. pt 3. 1908-9.  
 " U.S.: Astrophysical Jr. - May, 1912.  
 " " Pro. of the Rochester Academy of Science, plates 1-2. U.S. pp 37-58  
 // Spain: Extracts from Bulletin de la Soc. Belge d'Astron. 1911-12  
 // " Egypt: Bulletin Khedivial Obsrv. Helwan, nos. 4, 5.  
 " Brussels: Ciel et Terre. Avril, 1912.  
 " Eng: List of members elected 1912, P.S.A. & A. Science.  
 " 75 Paris: L'Astronomie, Mai, 1912.  
 " Bucuresti, Romania: Orion, Martie, 1912.  
 " Kobenhavn: Tab. of Kobenhavn Obsrv. nos. Rapport.  
 " Societe D'Astronomie D'Annus. Rep. 1911.  
 " Eng: Meteor. Office Obsrv. - Geophys. Jr. Oct, 1911 (no. 10)  
 " " Nature - May 16 - 1912  
 " " Eng. Mechanic - May 17 - 1912.

May (Read May 27 <sup>th</sup> ).	{	Canada & the Empire	19
		U.S.A.	8
		Other Countries	<u>13</u>
		Total	40

Think annuals should have separate mention  
 in the report for the month. J.C.

Periodicals recd.

1912

June.

- June 1 Harvard College Bulletin, no 492. -12
- " 4 Popular Astronomy (U.S.) June-July (no. 6.) -12
- " " Eng: Monthly notices of the R. Ast. Soc - June - '12.
- " " " : Eng. Mechanic. - May 24. - 1912.
- " " " : Pro. R. Soc of Edinburgh - Pt. 2 pp. 113-208.
- " " " : Jr. B. A. Soc. - April 1912.
- " " " : Memoirs B. A. Soc - v. 19. part 1. - 12.
- " " " : Nature - May 23 - 12.
- " " " : Jr. of the Ast. Soc. of India - March - 12.
- " 5 Syria: A. M. D. G. Observatoire de Kasara (Liban). - Apr 12
- " " Japan: Astronomical Herald, - April, 1912.
- " 6 " " " May - 1912.
- " " U.S.: Monthly Weather Review - March - 1912.
- " 8 " : Harvard Bulletin, no. 493. v. 46 - no 1
- " 10 " : Pro. Amer. Academy of Arts & Sc. v. 48 - no 25
- " " " : Pub. Astron. Soc. of Pomona Coll. v. 1 - no 5
- " " " : Rept John Curran Library - 1911. (Annual.) Apr - 12
- " " Eng: Annual Rpt. Royal Alfred Ob. - Colony of Mauritius
- " " " : Nature, - May 30 - 1912.
- " " " : Eng. Mechanic - May 31 - 1912.
- " " Spain: Boletín de la Soc. Astron. de Barcelona, Mayo, 1912.
- " 14. " : " Mensual del Obser. del Ebro, v. 2, - 8, Oct - 11.
- " " U.S.: Jr. of the Franklin Inst. - June, 1912.
- " " Italy: Memorie della Società degli Spettros. etc Apr - 1912

# Periodicals Rec'd.

June - cont'd.

1912

- June 17. U.S.: *Astronomical Jr.* - Albany, - nos. 11-12. <sup>June 10.</sup> 7.27
- " " : *Pub. - Astron. Soc. of the Pacific* - June 12, - no. 142.
- " Eng: *Meteor. Office Obsrv. - Geophys. Jr.* Nov. 11 - no. 11.
- " 18 " : *Knowledge* - June 1912.
- " " : *Nature* - June 6 - 12.
- " " : *Eng. Mechanic* - June 7. - 12
- " " : *The Observatory* - June - 12.
- " Mexico: *Boletin Mensual del Obser. Meteor.* - Mexico, <sup>Oct. 1911</sup> Nov. 1911
- " 19 Canada: *Royal Soc. of C. - Pro. & Trans.* v. 5, 1911. (annual).
- " 20 " : *Angström Pyrheliometer & the Callender Sunshine Recorder* - by Peterson, J. - pamphlet.
- " " U.S.: *Astrophysical Jr.* - June - 1912.
- " " " : *Pro. Amer. Philos. Soc.* - Apr - June, 1912.
- " 21 France: *L'Astronomie* - juin, 1912.
- " 22 Germany: *Pub. Astrophys. Obser. zu Potsdam.* v. 22, pts 2, 3
- " " " : *Aktinometrie* - v. 8, nr. 1 of *Math.-Phys. Klasse.*
- " " Belgium: *Annuaire Astronomique*, 1913.
- " " " : *Catalogue, Library Royal Obser. of Belgium* pt 2.
- " 24 " : *Gazette Astronomique*, 8 juin, 1912.
- " 24 Rome: *Reale Accademia dei Lincei*, 19 maggio, 1912.
- " Ireland: (Bz.): *Pro. Royal Irish Academy*, pts 5 & 6. - v. 29 - 12.
- " " " : *Title page & contents for above* - v. 29.
- " " " : *Index to serial pub. R. I. A. 1786 - 1906.*

# June - cont'd.

1912.

10. June 24 Eng: Nature, June 13, 1912.
- 27 " " : Eng. Mechanics, June 14, 1912.
42. " 26 U.S.: Manila Weather Review, Sep & Oct -11.
- " " : " " Bureau, Annual Rpt. - '07.
- " 28 " " : " " Review - Nov - 11.
- 29 " " : Carnegie Inst. of Washington <sup>Mr. Wilson</sup> Contrib. no 59, 60.
- 4 (3 Annual Rpts) June Report - { Canada + the Empire - 23.
- July. { U.S.A. 19.
- { Other Countries 16
- Total = 58
- July 2. U.S.: Lowell Ob. Bulletin 52, 53.
3. " : Annals of N.Y. Academy of Sc. v. 25, pp 177-262.
- " : Monthly Weather Review, for Apr. - 12
- " Eng: Nature, June 20 - 12.
3. " : Eng. Mechanics, June 21 - 12.
- " : Jr. Pub. Astron. Ass'n. - May, 1912.
- " : Monthly Notices, Royal Astron. Soc, May - 12 <sup>v. 72-7.</sup>
12. " 3. U.S.: Pub. of Pomona College (Astron. Soc) June - 12.
- " : Roumania; Orion, Apr - May, 1912
- " : Opusc: Boletim Mensual del Obser. del. Ebro, Sep, 1911
12. " : U.S.: Harvard College Circulars, 174
- W/ " " : " " Annals Astron. Soc. v. 59, no. 10 <sup>and index</sup>
- " " : " " " " v. 56, no 7.
- " " : " " " " v. 72. " 2

# Periodicals Rec'd.

1912

July - cont'd.

- July 4. Syria: A.M.S.P. - Obser. de Nsara (Liban). Mai - 12.  
 " Eng: Meteoro. Obser. - Geophysical Jn., Dec - 11, no. 12.  
 " 5 Spain: Boletín Mensual de la - Sismol. de Cartaja, <sup>no. 5</sup> Mayo 12.  
 // " 6 Ireland: Scien. Proceedings of the Royal Dublin Soc. <sup>nos.</sup> 12-23.  
 " 8 U.S.: Jn. of the Franklin Inst., July, 1912.  
 " " Eng: Nature, June 27. - 1912  
 " " " : English Mechanic. June 28 - 1912.  
 " 10 " : Pro. of the Royal Soc. Ser. A. v. 86. <sup>June 27,</sup> no. 590 - 1912  
 " " Copenhagen: Beretning. -- Matematikerkongres, 1911.  
 " " Mexico: Tacubaya Obser. - Star Charts, 1 roll.  
 // " " U.S.: Lick Observatory Bulletin, nos. 211, 212, 213-4-5.  
 " 11 Japan: Astron. Herald. - June - 12. v. 5, no 3.  
 " 16 Italy: Bollettin Sismologico, - Baldini - Oct-Nov-Dec - 11.  
 " " " : Memorie Soc. degli Spettroscopisti Italiani <sup>May</sup> 1912.  
 " " Canadian Monthly Weather Review, - Feb. 1912.  
 " " Eng: The Observatory, July, 1912  
 " " " : English Mechanic, July 5 - 1912  
 " " " : Nature, July 4. 1912.  
 " " " : Knowledge, July, 1912.  
 " " U.S.: Manila Weather Review. - Dec 1911 (Bulletin).  
 " 19 Denmark: Pub. Kobenhavn Obser. - nos. 9 and 10.  
 " " Eng: Jn. of the Astron. Soc. of India. - Apr - 12.  
 " // " " Eng. Mechanic, July 12 - 12  
 " " " Nature, July 11 - 12  
 " " " Annual Report of His Majesty's Astronomer Cape of Good Hope <sup>1911</sup>

1912

July - cont'd.

July 73 Quebec: Annuaire de l'Université Laval. 1912-13.

July Report -	{	Canada & Empire -	29
		U.S.A.	18
		Other countries	10
		Total -	57

(2 Annuals)

August for holidays.

August.

- 5. August. Manila Weather Bulletin, Jan, Feb. 1912
- " Japan: Astronomical Herald, July 1912. v. 5, no. 4.
- 11. " Spain: Doc. Astron. de Barcelona. Exposition Lunares 1912
- 24 17. // " France: L'Astronomie, July and Aug. 1912.
- // " Syria: A. M. D. G. - Observatoire de Raqqa, Juin, Juillet 12
- // " Spain: Boletín Mensual Obser. del Ebro. Oct. & Nov. 12
- " " : Congreso de Granada. "Las Manchas de Sol" - by Garrido.
- " Brussels: Ciel et Terre. Mai - Juin - Juillet 1912 (one num)
- // " Italy: Memorie della Società Degli Spettrosc. Italiani, July.
- " Potsdam: A publication from The Astrophysical Obser.
- " Kristiania: Pub. des Universitets - Obser. in Kristiania. Catal. pt 11.
- " Italy: <sup>Scienze.</sup> Astron. fatte all'Equatoriale de Arcetri nel 1911.
- " (Rome). Memorie del Osservatorio Astronom. al Collegio Romano.
- 1911 // " Mexico: Boletín Mensual del Obser. Meteor. Magnetical Central de Mexico Dec 1911. Jan & Feb. 12.

Publications received.

1912

August, - cont'd.

- Aug. Toronto: Monthly Weather Review, March 1912.
- " India (Eng.): Jn. of the Astron. Soc. of India, May 12.
- " Eng: Proceedings Royal Soc. of Edinburgh, 1911-12 <sup>150</sup> 209 to 320.
- 7/ " " English Mechanic, July 19, 26  
wrote to Eng. Mechanic asking them to continue, and send bill.
- 6/ " Eng: Nature, July 18, 25, Aug. 1, 8, 15, 22, - 1912
- " " Knowledge, Aug. 1912.
- " " Royal Astron. Soc. - Monthly Notices, June 12
- " " " " - List of Fellows & Associates, June 1912
- " " Jn. of the Br. Astron. Ass'n. - June 1912
- 4/ " " Proceedings of the Royal Soc. v. 86 - nos. 591, 287 - nos. 592-34.
- " " The Observatory (Greenwich), Aug. 1912
- " Nova S: Pro. & Trans. of the Nova Scotia Inst. of Sc. v. 13, pt 1. <sup>1910-11</sup>
- " U.S.: Lick Observatory Bulletin, nos. 216, 217.
- " " : Astronomical Jn. (Albany, N.Y.) nos. 637-8, July 27, 31 <sup>1912</sup>
- " " : Proc. - Amer. Philos. Soc., July 1912, v. 51, no. 705.
- " " : Pub. - Astronom. Soc. of the Pacific. v. 24, no. 143. <sup>Aug. 1912</sup>
- " " : Jn. of the Franklin Inst. - Aug. 1912. v. 174, no. 2.
- " " : Astrophysical Journal. July 1912. v. 36, no. 1.
- 3/ " " : Proc. Amer. Academy of Arts & Sciences, v. 48, nos. 2, 3, 4.
- 12/ " " : Pub. of the Allegheny Obser. - nos. 17, 18. - v. 2.
- " " : Monthly Weather Review: May, 1912.

August	{	Canada & the Empire	21	-
		U.S.A.	14.	
		Other countries	19.	
		Total	54	

1912

September

(page 134 missing)

- 4 ~~4~~ U.S.: Annals of the N.Y. Academy of Sciences pp 1-160.
- " " : Manila Weather Bureau Bulletin, Nov-12.
- " " : Jr. of the Franklin Inst. - Sep. 1912. v.174, no.3.
- " " : Monthly Weather Review, June 1912. v.40, no. 6.
- 7. Eng: Nature, Aug 29-12.
- " Italy: Memorie della Soc. degli Spettroscopisti It. Agosto-12.
- " France: Notice sur Charles André by J. Guillaume. (1912).
- 8. Mexico: Boletín Mensual Observ. Meteor. Naq. Cent. de M. Mex. <sup>1912</sup> Apr.
- 12 France: L'Astronomie, Sep. 1912.
- " Eng. (Aust.) Proc. of the Royal Soc. of Queensland v.23. pt 2.
- " Canada: 3<sup>rd</sup> Annual Rpt, Comm. of Conservation, 1912.
- 13. U.S.: Annals of Harvard College Observatory, 72-3, 47-2, 63-1, 56-6, 61-3.
- " " Annual Rpt " 1911 (year ending Sep 30-11)
- 13. " Bulletin Harvard College Obser. no. 494. J.R.C. Nov
- " Canada: Meteorological Service of Canada. Report 1908.
- " Eng: Greenwich Obser. - Annual Report, 1910
- 16 U.S.: Harvard College Bulletin. no. 495.
- " Eng: Leeds Astron. Soc. - Journal & Transactions. No. 19. - 1911 (yearly).
- 20. " : "The Observatory", - Greenwich, Sept. -12.
- " " : Nature - Sep. 5. -12.
- " " : Knowledge - Sept. 12.
- 18 U.S.: Astrophysical Jr. (Chicago) v.36, no.2. - Sep-12
- 21 " : Harvard College Bulletin, no. 497. and 496
- " Eng: Jr. of the Astron Soc. of India, June 1912.
- " Canadian Weather Review - April, 1912



Periodicals Recd.

1912.

September - cont'd.

- Sep. 21 Antwerp: Gazette Astronomique, Aug 15-12, <sup>(5 num)</sup> nos. 7-8  
 " 22 Italy: Memorie della Soc. Degli Spettroscopisti St. Sep. 12  
 " 24 Mexico: Boletin del Observatorio Astronomico Nacional, No. 2 (Feb. 1912?)  
 " " Eng: Nature, Sept. 12<sup>th</sup> 12  
 " " Eng: List of Members of British Astronomical Association Sept. 19 12  
 " 26 U.S.: Harvard Bulletin, <sup>(Sep. 25<sup>th</sup>)</sup> no. 497 (Should this have been 498?)  
 " 28 Eng: English Mechanic, Sep. 20<sup>th</sup>  
 " " Proceedings of the Royal Society, Series A, Vol 87, No. 595  
 " 30 " English Mechanic, ~~10~~ numbers, Aug 9, 9, 16, 23, 30, Sep. 6, 13.  
 " 30 Ireland: Proceedings of the Royal Irish Academy Vol ~~XXX~~ Sec. A, Parts 1, 2, 3.  
 " " U.S.: Astronomical Journal, Albany N.Y. Vol. ~~XXVII~~. Nos 15, 16  
 " " " Monthly Weather Review, Vol. ~~XXXIX~~. 1911  
 " 30 " " Harvard Bulletin, No. 499.

Oct.	{	Canada & the Empire	26
		U. S. A.	19
September		Other Countries	9
			54

- Oct. 1 U.S.: Popular Astronomy, Oct. 1912 Vol ~~XX~~ No. 8.  
 Manila: Annual Report of the Director of the Weather Bureau <sup>Paris</sup> 1908  
 Mexico: Memorias y Revista de la Sociedad Cientifica -  
 2<sup>nd</sup> U.S.: " - Vol. ~~XXIX~~ 7-12. Vol. ~~XXX~~ 1, 2, 3, 4, 5, 6.  
 U.S.: Harvard Bulletin, No 500.  
 3<sup>rd</sup> " " Harvard Bulletin, No 501.  
 " Roumania: Orion, June 1912  
 " U.S. Proc. American Academy of Sciences, Vol 48 Nos 5, 6, 7, 9, 10

# Publications Received.

October - cont.

1912

- 3<sup>rd</sup> Paris : 6 Packages of Star Charts
- " " : Catalogue Photographique du Ciel Obs. Paris
- " " : " " " " " " " " Bordeaux.
- 4<sup>th</sup> Syria : A. M. D. G., Obs. de Ksara (Liban) Aug. 1912
- 5<sup>th</sup> U.S. : Harvard Bulletin, 502
- " " : Monthly Weather Review, Vol. 40, No. 7, July 12
- " Spain : Boletin de la Sociedad Ast. de Barcelona Aug. Sep. 1912
- " Egypt : Bulletin Khedivial Observatory, Helwan No. 6.
- 7<sup>th</sup> India : English Mechanic, Vol. XCII, No. 2499, Sep. 1912
- " India : Journal of the Astron. Soc. of India Vol. II, No. 9, July
- " Spain : Boletin Mensual de la Estacion Sismol. de Cortiza No. 8, Aug.
- " U.S. : Proc. & Transactions of the Nova Session Acad. of Science Vol. XVII.
- 8<sup>th</sup> Mexico :
- 9<sup>th</sup> Cal. : Lick Observatory Bulletin, No. 218.
- " U.S. : Journal of Franklin Institute Vol. CLXXIV, No. 4, Oct.
- 10 U.S. : Contributions from the Princeton University Obs. No. 2.
- Tor. : University of Toronto Studies Nos. 38, 39, 40, 94
- 14<sup>th</sup> Eng. : Knowledge, Vol. XXXV, No. 531, Oct. 1912
- " : English Mechanic, Vol. XCVI, No. 2452, Oct. 4<sup>th</sup> 1912
- " : Proceedings of the Royal Society Vol. 87, No. 596
- Can. : Monthly Weather Review; May 1912.
- Manila : Bulletin for April 1912 Manila Central Obs.
- 16 U.S. : Publications of the Astron. Soc. of the Pacific Vol. XXIV, No. 144
- 17 " : " " " " " " " "

5  
8  
12  
112  
1912  
78  
503  
Sep. 6. 13.  
12. 34.  
16  
1908  
3. 4. 26.  
9. 10

Oct. 1912  
XXIV No 144

# Publications Received.

Oct. 1911

To: The Victoria College Bulletin 1911-1913  
Calendar of Victoria University.

18 U.S.: Harvard Bulletin No 503.

" " : Lick Observatory Bulletin No 219.

19<sup>th</sup> Mexico: One roll of Star charts on plates from Tacubaya

Eng.: Annual Report of the Observatory Syndicate, Cambridge

" " : "The Observatory" Oct. 1912

21<sup>st</sup> " : English Mechanic & World of Science. Oct 11<sup>th</sup> 1912

Nov S: Industrial Advocate, Sep. 1912

U.S.: Astrophysical Journal, Vol. XXXVI, Nos.

22<sup>nd</sup> France: "L'Astronomie" Oct. 1912

23<sup>rd</sup> U.S.: Harvard Bulletin No. 504.

24<sup>th</sup> " " : " " No. 505.

25 Italy: Memorie della Societa degli Spettroscopisti II, Oct 1912

" U.S.: Harvard Bulletin, No. 506.

29 " " : " " No. 507.

Eng.: Nature, five nos, Sep. 19<sup>th</sup> 26<sup>th</sup> Oct. 3<sup>rd</sup> 10<sup>th</sup> 17<sup>th</sup>

30 Italy: Specula Astronomica Vaticana II. Clon Siellari

Eng.: English Mechanic: Oct 18<sup>th</sup> 1912

Japan: Astronomical Herald of Japan. Aug & Sep.

Nov. 1<sup>st</sup> U.S.: List of the American Philosophical Society

" " : Proceedings " " " Aug. Sep. 1912

Eng.: British Meteorological Year-book Geophysical Journal  
2<sup>nd</sup> year No. 1, 2.

- Nov. 2<sup>nd</sup> Can: Censur of Canada. Vol. I.  
 " France: Bulletin de la Commission Heliohologique Tome F.  
 " : Catalogue Photographique du Ciel " Toulouse  
 " : Observations faites au Cercle Méridien en 1910 Dittbacia  
 " : Four rolls Star Maps.  
 " Eng: Journal British Astron. Soc. Vol. ~~LXX~~ LXXI. No 10 Annual Report  
 " U.S: Popular Astronomy, Vol. ~~LXX~~ LXXI. No 9. November.  
 3<sup>rd</sup> " : Monthly Weather Review. Aug-1912  
 " Eng: English Mechanic, Oct 25<sup>th</sup>  
 " : Nature, Index number, Oct 24<sup>th</sup>  
 " : D. M. Naper, Nos 1, 2, 3 presented by the  
 Argentine National Observatory.  
 5<sup>th</sup> Spain: Bolletin Mensual del Observatorio de Alb. Jan. 1912  
 " " " " " " " " Dec. 1911  
 6<sup>th</sup> U.S: Lick Observatory Bulletin, No. 220.  
 " " : Harvard Bulletin, No 509  
 8<sup>th</sup> " " : " " " " " " " " No 508  
 " " : Lowell Observatory Bulletin No. 54.  
 9<sup>th</sup> " " : Harvard Bulletin, No. 510.  
 " Eng: Nature, Oct 31<sup>st</sup>.  
 " : Proc. of the Royal Society, Series A, Vol. 87, No 597.  
 " : English Mechanic, Nov. 1<sup>st</sup>.  
 " France: Annals of Astron. Obs. of Toulouse, Vol. VI. Vol. ~~VII~~ VIII.  
 12<sup>th</sup> Belgium: Gazette Astronomique, Nos. 57 - 58.  
 Japan: Astronomical Herald, Vol. V. No. 7.

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Publications received.  
November cont.

- Nov. U. S.: Harvard College Bulletin. No. 511.  
15<sup>th</sup> " " : Cont. from Mount Wilson Solar Observatory No. 1.  
Canada: Weather Review (Monthly) June 1912  
16<sup>th</sup> U. S.: Astronomical Journal. Vol. XXVII. No. 17. Nov. 1912  
Eng: The Observatory. No 458. Nov. 1912  
France: Annales du Progrès. Oct. 1912.  
18<sup>th</sup> U. S.: Journal of the Franklin Institute. Nov. 1912  
Spain: Boletín de la Sociedad Astronómica Barcelona Nov. 1912  
Eng: Nature, No. 2245 Vol. 90 Nov. 7<sup>th</sup>  
" : Knowledge, Vol. 35, No 532 Nov. 1912  
" : English Mechanic etc Vol. ~~XCVI~~. No 2455. Nov. 8<sup>th</sup>  
19<sup>th</sup> " : Proceedings of Royal Society of Edinburgh Part IV. pp. 321-439. Vol. XXVII  
" Holland: "Handwörterbuch der Naturwissenschaften." Nov. 1912  
" Romania: Orion July. Aug. Sept.  
21 France: L'Astronomie Nov. 1912  
" Syria: A. M. D. G. Observatoire de Kasre. Sep. 1912  
22 Spain: Boletín: Observatorio del Ebro. Feb. 1912, Vol. III. 2  
" U. S.: Proc. Amer. Acad. Arts & Sciences. Vol. XXVII, No 22  
" " " " " " Vol. XXVIII Nos. 8-11, 12, 13.  
25<sup>th</sup> Eng: Nature. Nov. 14<sup>th</sup> 1912  
" : Nautical Almanack & Astronomical Ephemeris for 1915  
" : English Mechanic. Nov. 15<sup>th</sup> 1912

1912 Publications Received

- Nov. 25<sup>th</sup> Eng: Monthly Notices of R. A. S. Vol XXXII No 9  
 Spain: Boletim Mensual de la estacion sismologica. July 1912  
 29 U S: Trans. of the Astron. Observatory, Yale. Vol. II. Part III & IV.  
 30 Italy: Memori della Societa degli Spettroscopisti Italiani Vol. 1912

November	{	Canada & the Empire	18
		United States	19
		Other Countries	<u>21</u>
		Total	58

- Dec. 2<sup>nd</sup> U S: Popular Astronomy. Vol. XX No. 10. Dec 19  
 France: Bulletin de l'Observation de Tolence. Oct. 1912  
 Eng: English Mechanic. Nov. 22<sup>nd</sup>  
 " : Nature, Nov. 21<sup>st</sup> Vol. 90. No. 2247.  
 5<sup>th</sup> U S: Astrophysical Journal. Vol. XXXVII No. 4. Nov. 1912  
 " : Lick Observatory Bulletin, No. 222  
 Syria: A. M. D. G. Observatoire de Rasara. Oct 1912  
 6<sup>th</sup> Spain: Boletim de la Sociedad Astronomica Barcelona Nov. 1912  
 7<sup>th</sup> U. S.: Astronomical Journal. Vol. XXXVII No. 18.  
 9<sup>th</sup> : Annual Report. Weather Bureau. Philippine Islands  
 : Bulletin for May. 1912 " "  
 : Extraordinary drought Oct 1911 - May 1912 " "  
 Eng: Nature. Vol 90 No 2248. Nov 28<sup>th</sup>  
 " : Journal of British Astron. Ass. Vol. XXXII No. 1. Oct. 1912  
 " : Eng. Mechanic & World of Science Nov. 29<sup>th</sup>

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Publications Received

- Dec. 7<sup>th</sup> U.S. Monthly Weather Review. Vol. 40 No. 9.
- 10<sup>th</sup> German: Astronomischer Jahresbericht. No. XIII. 1911
- 12<sup>th</sup> U.S.: Journal of Franklin Institute Dec. 1912
- Philippines: Bulletin for June 1912, Manila Obs.
- 16 Canada: Report of the Chief Astronomer for 1910, Ottawa
- Belgium: Gazette Astronomique. Nos 11-12
- German: Bulletin Sismique, April - July 1912
- 18 Eng: Nature, Dec. 5<sup>th</sup> 1912
- " : English Mechanic, Dec. 6<sup>th</sup> 1912
- Can: Monthly Weather Review, July 1912.
- 19 Eng: Knowledge, Dec. 1912
- 23 " : The Observatory, No. 455, Dec. 1912
- " : Proceedings of Royal Society, London Ser. A. Vol. 87, No. 595
- 24 Belgium: Ciel de Terre, XXXIII years Nos 10-11, Oct. Nos. 1912
- " U.S.: Astronomical Journal, Albany N.Y. No. 643.
- " " : Harvard Annals, Vols LXXVII, LXIV Nos.
- " " : " Vol. LXXII No. 6
- " " : " Circulars Nos. 175, 176.
- " " : Report of Committee to visit the astronomical Obs.
- " " : Copies of Bulletin Nos. 501 to 511
- 30<sup>th</sup> Eng: Journal of British Astron. Ass<sup>n</sup> Vol. XXIII, No. 2.
- " Belgium: Alphabetical Catalogue of Books.
- 31 U.S.: Astrophysical Journal Vol. XXXVI, No. 5.
- Eng: Nature, Dec. 12 & 19<sup>th</sup>
- Cal: Publication Astron Society of Pacific, Dec.

# Publications Recd

December	}	Canada & the Empire	15
		United States	18
		Other Countries	10
			43

- Jan. 1913
- 2<sup>nd</sup> Ireland: Conve Proceedings of Royal Dublin Society Aug. 1912
  - 2<sup>nd</sup> " : Scientific " " " " " Vol. XIII. Nos 24-26
  - Eng: English Mechanic. Dec. 20<sup>th</sup>
  - Irene: L' Astronomie. 26<sup>jeur</sup> Dec. 1912.
  - 3<sup>rd</sup> U.S.: Popular Astronomy. Jan. 1913
  - 4<sup>th</sup> France: Bulletin de l'Observatoire de Toulouse Dec. 1912
  - 5<sup>th</sup> Eng: Companion to "The Observatory".
  - " : "Monthly Notices". Vol. LXXII No. 9.
  - U.S.: "The Legal Time in Various Countries" by Dr. M. Philippot.
  - " : "Some Recent Interesting developments in Astronomy" by J. S. Plaskett. from the Smithsonian Report for 1911
  - 7<sup>th</sup> " : Monthly Weather Review Oct. 1912
  - Eng: English Mechanic. Dec. 27<sup>th</sup>
  - Syria: A. M. D. G. Observatoire de Kasra N. 1912
  - 8<sup>th</sup> Eng: "Nature". Dec. 26<sup>th</sup>
  - 9<sup>th</sup> " : Memoirs of the British Astron. Ass.<sup>n</sup> Vol. XVI. P. 3.
  - " : Proceedings of The Royal Society. Ser. A Vol. 87. 599
  - Germany: Bulletin de l'Activité Solaire.



## Publications Recd.

- Jan. 15<sup>th</sup> Anuario del Observat. Astron. de Tacubaya Mexico 1913.  
 U. S.: Lick Observatory Bulletin. No. 223.
- Italy: Memorie della Societa degli Spettros. Di. Dec. 1912  
 Belgium: Bulletin de la Societe Belge d'Astronomie Aug. 1911  
 17<sup>th</sup> : Publikationen der Kaiserlichen Universitaets Sternwarte  
 .. .. . Band ~~XXI~~ 1-5 ~~XXII~~ ~~XXIII~~ 1.
- Spain: Boletim de la Soc. Astron. Barcelona Dec. 1912  
 21<sup>st</sup> France: Annuaire Astronomique, 1913. Camille Flammarion  
 U. S.: Proc. Amer. Acad. Arts & Sciences. Vol. 48. Nos. 14-15  
 India: "Three Popular Lectures", pamphlet. Astron. Soc. of India.  
 Can.: Forest Conditions of Nova Scotia. Comm. of Cons. Ottawa  
 Mexico: 2 Bulletin Mensual Observ. Meteor. May June 1912  
 Eng: Nature: Jan. 2<sup>nd</sup>  
 Egypt: Bulletin No. 7. Medical Observatory-Helwan.  
 Can.: Monthly Weather Review. Aug. 1912.  
 Belgium: Gazette Astronomique Nos. 61-62.
- 23<sup>rd</sup> Eng: The Observatory. Jan. 1913.  
 U S: Journal of the Franklin Inst. Jan. 1913.  
 Mauritius: Annual Report of the Director of Mag. Obs.  
 " : Results of Mag. & Meteor. Obs.<sup>ns</sup>: Royal Alfred Obs.
- 29<sup>th</sup> Can.: Monthly Weather Review. Sep. 1912  
 30 Belgium: Ciel de Terro Dec 1912  
 U. S.: Astrophysical Journal Vol. ~~XXXVI~~. No 1.

# Publications Received.

- Jan. 30<sup>th</sup> Japan: Astronomical Herald, Nov. & Dec.  
 Eng.: English Mechanic. Jan. 17<sup>th</sup>  
 Mexico: Observations & studies of Prof. Sever's Diary. 1909-11  
 Eng.: A. H. Nature Jan. 19  
 Syria: A. M. D. G. Dec. 1912  
 U. S.: Proc. of Amer. Phil. Society. Vol. LII. No 207.  
 Feb. 3<sup>rd</sup> U. S.: Lick Observatory Bulletins. Nos 224, 225.  
                   Canada & the Empire } 18  
                   January. United States } 10  
                   Other Countries } 16  
44
- Feb. 5<sup>th</sup> Can.: Transactions of the Canadian Institute Nov. 1912  
 Eng.: English Mechanic. Jan. 24<sup>th</sup>  
 " : Nature. Jan. 23<sup>rd</sup>  
 " : Journal of Brit. Astron. Ass<sup>n</sup> Dec. 1912  
 U. S.: Popular Astronomy. Feb. 1913.  
 Ind.: Journal of Astron. Society of India Nov. 1912  
 6<sup>th</sup> U. S.: "The Astronomical Journal" No 6214.  
 8<sup>th</sup> " : Monthly Weather Review. Nov. 1912.  
 " : Pub<sup>n</sup> Astron. Obs. of Un. of Michigan. Vol. I. p 1-72  
 Philippines: Weather Bureau. Manila. July 1912  
 Eng.: Geophysical Journal. March 1912  
 " : Nature. Jan. 9<sup>th</sup>  
 " : Eng. Mechanic. Jan. 10<sup>th</sup>

# Publications Received.

- |                      |            |                                         |                       |
|----------------------|------------|-----------------------------------------|-----------------------|
| Feb. 8 <sup>th</sup> | Eng.       | Knowledge                               | January 1913          |
| "                    | Spain:     | Bulletin Semiquinc.                     | Aug- Oct. 1912        |
| "                    | "          | Mensual, Cartuja                        |                       |
| "                    | "          | Bulletin de la real Sociedad Española.  | Nov. 1912             |
| 12 <sup>th</sup>     | Can:       | Mine-Rescue Work in Canada.             | Com. d. Cons. Ottawa  |
| 13 <sup>th</sup>     | Eng:       | Monthly Notices of the R. A. S.         | Dec. 1912             |
| "                    | "          | Proceedings of the Royal Society.       | Vol 88 No 600         |
| 14                   | "          | Nature                                  | Jan. 30 <sup>th</sup> |
| "                    | "          | English Mechanic                        | Jan. 31 <sup>st</sup> |
| 15                   | U.S.       | Journal of the Franklin Institute       | Feb. 1913             |
| 17                   | France:    | "L'Astronomie"                          | Feb. 1913             |
| "                    | Eng.       | The Observatory                         | Feb. 1913.            |
| "                    | "          | Knowledge                               | Feb. 1913.            |
| "                    | Belgium:   | Ciel de Terre                           | Jan. 1913             |
| "                    | Eng:       | Nature                                  | Feb. 6 <sup>th</sup>  |
| 20                   | Philippine | Bulletin, Weather Bureau.               | August 1912           |
| 22                   | Spain:     | Resultados del Obs. Nacional Argentino. | Vol 20.               |
| 24                   | Eng:       | English Mechanic                        | Feb. 14 <sup>th</sup> |
| "                    | "          | Nature                                  | Feb. 13 <sup>th</sup> |
| "                    | U.S.       | Report of the American Meteor Society   | by C. P. Olivier      |
| "                    | India:     | Journal of Astron. Soc of India.        | Vol II No 2. Dec. 11  |
| "                    | "          | "                                       | Vol II. No 3. Jan. 13 |
| "                    | Eng:       | Geophysical Journal                     | April 1912            |
| "                    | "          | Monthly Notices of R. A. S.             | London, Jan 1913      |

# Publications Received.

- Feb. 26<sup>th</sup> U.S.: Bulletin No 55. Lowell Observatory  
 .. : Publications of Astron. Socy. Pomona Coll. Cal. Vol. 12.  
 Belgium: Gazette Astronomique No 63.  
 France: Observations et Travaux Vol. I. 1911-1912.  
 28<sup>th</sup> Cal: Publications of Astron. Socy Pacific Vol. ~~XXV~~ No. 146  
 Barcelona: Boletín de la Sociedad de Barcelona Feb. 1913  
 Italy: "La Notation de la Terre" Spectra Astron. Vaticana  
 Mar. 3<sup>rd</sup> Eng: 

from Canada & the Empire	21
February .. United States	10
.. Other Countries	<u>15</u>
	46

  
 Mar. 3<sup>rd</sup> Eng: Journal British Astron Ass. Vol. ~~XXII~~ 4  
 " : English Mechanic Feb. 21<sup>st</sup>  
 4 " : Nature Feb. 20<sup>th</sup>  
 " : "Astronomy" by F. W. Dyeron. F. R. S.  
 8<sup>th</sup> " : Proceedings of Royal Society Ser. A. Vol 88. No A601  
 Can: Bulletin Natural History Soc. New Brunswick Vol. ~~PT.~~ No. 17.  
 U.S: Popular Astronomy Vol. ~~LVI~~ No 3.  
 Can: Monthly Teacher Review. Nov. 1912.  
 U.S: Publication Astron. Socy of Pacific Vol. ~~LVI~~ No. 146  
 " : Monthly Weather Review Dec. 1912

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# Publications Received

- Mar. 10<sup>th</sup> Eng: English Mechanic, Feb. 28<sup>th</sup>  
                  " : Nature, Feb. 27<sup>th</sup>  
France: Bulletin de l'Observatoire de Toulouse Feb 1913  
Germany: Astrophysikalischen Observ. Potsdam, Publication 6.VI.  
U.S.: Journal of the Franklin Institute Mar 1913  
          " : Dedication of the new Allegheney Observatory.  
France: J' Astronomie March 1913  
17<sup>th</sup> Spain: Boletín Mensual del Observatorio del Uro May 1912  
          " : Nature March 6<sup>th</sup>  
          " : The Observatory March 1913  
          " : Knowledge. March 1913  
19 Japan: Astronomical Herald, Vol. V. No. 11 Feb. 1913.  
Spain: Boletín Mensual, Estacion Sismologica Cartagena, Jan.  
Can.: Publications of the Dominion Obs. Vol. I No. 1  
          " : Monthly Weather Review. Dec. 1912.  
Japan: Astronomical Herald, Vol. VI. No. 10. Jan.  
24<sup>th</sup> Eng: English Mechanic March 7<sup>th</sup>  
Belgium: Gazette Astronomique No. 64  
          " : Bulletin de Société Belge d'Astron. Feb. 1913.  
U.S.: Astrophysical Journal Vol. XXVII, No. 2.  
Spain: Boletín de la Soc. Astron. Barcelona, Mar 1913.  
Italy: Memorie della Soc. Spettros. Ital. Vol II Ser. 2<sup>a</sup>  
U.S.: Annual Report of Naval Observatory. 1912



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# Publications Received

- April 9<sup>th</sup> India: - Journal of Astron. Soc<sup>y</sup> of India Vol III. No 4.  
Ottawa: - Conditions in the Clay Belt of Ontario.  
Eng: - Geophysical Journal June 1912.  
11 U.S.: - Astronomical Papers prep. for the Amer. Ephemeris  
Eng: - Proceedings Royal Society, London.  
12<sup>th</sup> Spain: - Bol. Mensual del Observatorio del Ebro, June 1912.  
U.S.: - Journal of Franklin Institute April 1913  
" : - Monthly Weather Review Vol 41 No 1. Jan. 1913  
14<sup>th</sup> " : - Lick Observatory Bulletin No 226.  
Belgium: - Ciel de Torre; March 1913.  
Eng: - English Mechanic Apr. 4<sup>th</sup> 1913  
" : - Nature. April 3<sup>rd</sup> No 2266 Vol. 91.  
15<sup>th</sup> " : - The Observatory April 1914 No 460  
U.S.: - Publication of the Allegheny Observatory Vol III. No 12.  
16<sup>th</sup> " : - Astrophysical Journal, Jan. 1912.  
Mexico: - Bol. Mensual Observatorio, Mexico. July Aug 1912.  
Japan: - Astronomical Herald Vol V. No. 12.  
Hama: - L'Astronomie April 1913.  
18 Italy: - Memorie Soc. degli Spettros. Italiana. Feb. 1913.  
U.S.C.: - Astron. Soc. Pacific. Publication Vol XXV. No. 147. 9 dupl.  
Scotland: - Proceedings Royal Soc<sup>y</sup> Edinburgh Vol 33. pt. 1.  
Eng: - Nature April 10<sup>th</sup>.  
29<sup>th</sup> " : - Knowledge. April.

1913

# Publications Received.

April Eng :- English Mechanic, April 11<sup>th</sup>  
 22<sup>nd</sup> U.S. :- Astrophysical Journal Vol ~~XXXVI~~ No 3.  
 24<sup>th</sup> Spain :- Boletim Mensual Soc. Astron. Barcelona <sup>Ann 4</sup> No 29  
 28<sup>th</sup> Eng :- Nature, Ap. 17<sup>th</sup>  
 U.S. :- Lowell Observatory Bulletin No 56  
 From Canada & the Empire 17  
 " The United States 13  
 " Other Countries 11  
 April ————— Total 41

May  
 3<sup>rd</sup> China: Etude photographique des diamètres polaire et <sup>du Soleil</sup> equatorial  
 U.S. : Popular Astronomy, May 1913.  
 Eng : English Mechanic, April 18<sup>th</sup>  
 7<sup>th</sup> U.S. : The Astronomical Journal Nos 646-647.  
 " : Harvard Observatory Bulletin No 512  
 10<sup>th</sup> " : Monthly Weather Review Vol IV No 2, Feb. 1913.  
 " : Cont. Mount Wilson Sol. Obs. No. 65, 67, 66.  
 Italy: Spicula Vaticana. - Inaugurazione  
 " : " Catalogue Coll. Meteorites, Obs. Vatican.  
 France: Report Annuel sur l'etat de l'Observatoire, Paris 1912  
 Eng : Journal Brit. Astron. Assoc. Vol ~~XXXII~~ No 6, March.  
 English Mechanic, Ap. 25<sup>th</sup>  
 Monthly Notices of R.A.S. Vol ~~XXXII~~ No 5, March  
 Belgium: Huitieme Rapport, Societe d'Astronomie d'Anvers.



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May 9<sup>th</sup>  
12

- U.S.: Harvard Bulletin 513.
- .. : Harvard Bulletin 514. 515.
- .. : Harvard Bulletin 516.

Bavaria: Sitzungsberichte der Mathematisch-physikalischen Klasse der Königlich Bayerischen Akad. der Wissenschaften <sup>Hefte I. 1912</sup> Heft 2-III, 1911.

Haarlem: Archives du Musée Teyler Serie III. Vol. 1.

17<sup>th</sup>

India: Journal Astron Soc. India, March 1913.

Can: Monthly Weather Review, Feb. 1913

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U.S.: Annual Report John Greaser Library

.. : Proc. Amer. Acad. Arts & Sciences Vol. 45. No. 18, 1910

.. : Journal Franklin Institute, May 1913 Vol. 175. No. 5.

Eng: English Mechanic, May 2<sup>nd</sup>

.. : Nature April 24<sup>th</sup>

.. : Mexico: Boletin Observ. Astron. Nacional No. 3.

.. : Italy: Memorie Soc. Spettros. Ital. Mar. 1913

.. : U.S.: Harvard Bulletin No. 517.

21 .. : Harvard Bulletin No. 518.

Belgium: Gazette Astronomique 6<sup>me</sup> Année, No. 66. No. 6.

23<sup>rd</sup> Eng: Nature May 1<sup>st</sup> 1913

.. : Knowledge May

.. : English Mechanic May 9<sup>th</sup>

.. : "The Observatory" May

# Publications Received.

1913.

May

23<sup>rd</sup>

Barcelona: Bulletin Soc. Astron. May 1913. Ann. No. 30

U. S. : University of Cincinnati Record. Opening Michel Obsv.

Eng. : Proc. of the Royal Society Ser. A. Vol. 88. No. 603.

29<sup>th</sup> U. S. : Lick Observatory Bulletin. No. 227.

31<sup>st</sup> " : Astrophysical Journal Vol. ~~XXXVII~~. No. 4 May.

" : Harvard Circular 177

" : Annals. Vol. 72. No. 5.

" : "The Objective Prism" by Edward Pickering

" : Weather Bulletin. Manila, Philippines Oct 1912.

" : Proc. Amer. Philosophical Soc. Vol. II. No. 208.

Eng. : Geophysical Journal July 1912 Sec. Year No. 7.

" : Monthly Notices R. A. S. Vol. ~~XXIII~~. No. 6.

" : Nature. May 15<sup>th</sup>

" : English Mechanic May 16<sup>th</sup>

France : "L'Astronomie". May 1913

Italy : Memorie Soc. Spettroscopica Italiana Vol. VII Ser. 2 April

Utrecht : De lichtkrommen van 23. Algol sterren. A. A. Nijland

Spain : Bulletin Obsv. del Moro. Vol. IV. No. 8 August 1912

" : " " " " No. 7. July 1912

Belgium : Ciel de Terre ~~XXXIV~~. Jan. No. 4. April 1913.

June 5<sup>th</sup>

U. S. : Harvard Bulletin. No. 519.

" : Publications Astron. Soc. of Pomona Coll. Vol. II. No. 3.

" : Popular Astronomy Vol. ~~XXI~~. No. 6

" : Bulletin of St. Louis University

1913

# Publications Received

- June 7<sup>th</sup> Eng.: Journal of British Astron. Ass. Vol XXIII No. 7.  
" China: Cometic Observes during 1911 Tome VII. 1911  
" Denmark Publikationer og mindre Meddelelser Kobenhavns Univ.  
" Eng.: Nature May 22<sup>nd</sup>  
" " : Eng. Mechanic May 23<sup>rd</sup>  
10<sup>th</sup> " : English Mechanic. May 30<sup>th</sup>  
11 India: Journal, Astron. Soc. India Vol III. No. 6.  
" Eng.: Proc. Royal Society Ser. A. Vol. 88 No. A 604  
12<sup>th</sup> " : Nature May 29<sup>th</sup>  
" U.S.: Monthly Weather Review Vol 41 No 3. March 1913  
" " : Lows Observatory Bulletin No. 20.  
13<sup>th</sup> " : Journal Franklin Institute Vol. CLXXXV. No. 6 June  
" : The Astronomical Journal No 648. Vol 27. No 24  
17<sup>th</sup> Eng.: "The Observatory" June 1913 No 462.  
" : "English Mechanic" June 6<sup>th</sup>  
" U.S.: Publications Astron. Soc. Pacific Vol 25. No 148, June  
" Can.: Monthly Weather Review Vol XXXVII. No 3. March 1913.  
18<sup>th</sup> Eng.: "Knowledge" June 1913. Vol XXXVI No. 539  
" : Nature. June 5 1913.  
" : Geophysical Journal, Second Year No 8.  
19<sup>th</sup> France : "Astronomie" June 1913  
20<sup>th</sup> Belgium : "Gazette Astronomique" 6<sup>th</sup> year, No 7 No. 67  
" Syria : A. M. D. G. Observatoire de Kasab. Jan. Feb. Mar April

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June 20<sup>th</sup> Toronto: Papers from Physical Labor., University 41 to 46.  
 " " " " Chemical " " " 95 - 98.

Can.: "et la possibilité de l'éclipsé" 1905. C P. Choquette.

21<sup>st</sup> Holland: Monatliche Erdbebenberichte. Seis. Jena. 1910.

23<sup>rd</sup> Mexico: Bol. Int. Meteor. Obs. Sept. Oct. 1912.

24<sup>th</sup> Eng.: Nature June 12<sup>th</sup>  
 " English Mechanic June 19<sup>th</sup>  
 " Report of Brit. Ass. Advancement of Science 1912.

27<sup>th</sup> Germany: Berliner Astronomisches Jahrbuch für 1913  
 " " Astron. Beobachtungen auf der Sternwarte  
 " " der Konigl. Christian Albrechts-Universität zu Kiel <sup>Teil IV-III.</sup>  
 U.S.: Astrophysical Journal. Vol. XXXVII. No. 5.

28<sup>th</sup> " Proc. Amer. Acad. Arts & Sciences Vol. 49. 1912.  
 Eng.: Proc. Royal Socy Edinburgh Vol. 33, Pt. II.  
 " Monthly Notices Vol. LXXIII No. 7.

" Italy: Memorie. Soc. deg. Spettros. Ital. Vol. II Ser. 2<sup>a</sup>.

30 Japan: Astronomical Herald, Vol. VI. No. 192 April 1913

" Eng.: Nature. June 19<sup>th</sup> 1913  
 " Eng. Mechanic June 20<sup>th</sup>

France: 6 Balls of Star Maps. Paris.  
 2<sup>nd</sup> " Annales de l'Observ. d'Ast. Physique  
 " " " " Tomes I. II. III. IV.

" " Observations Méridien made in 1911, Observ. d'Albadin

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July 5<sup>th</sup>

U.S.: Astronomical Journal, Indese li Vol. 27  
" : Monthly Weather Review, April 1913

8<sup>th</sup>  
8<sup>th</sup>

Eng.: Memoirs Brit. Astron. Ass<sup>n</sup> Vol. 19, Pt. 3.  
" : Journal " " " Vol. 23, No. 8.

Mex.: Códigos Meteor. International, 1872-1910

9<sup>th</sup>

Ireland: Scientific Proc. Roy. Dublin Soc. Vol. 13 Nos 27-27

Eng.: English Mechanic, June 27<sup>th</sup>  
" : Nature " 26<sup>th</sup>

11<sup>th</sup>

Japan: Astronomical Herald, June 1913 Vol. 8, No. 3.

11<sup>th</sup>

Germany: Monatsberichte der Seis. St. Jena, April-Aug.

14<sup>th</sup>

Eng.: Geophysical Journal, Sep. 1912

Can.: Monthly Weather Review, April 1913

14<sup>th</sup>

U.S.: Astronomical Journal, Nos. 649-650

14<sup>th</sup>

" : Harvard Annals, Vols. 72-6, 7; 74; 75-1, 2, 3.

Italy: Memori. Soc. Spettros. Ital. June 1913

Eng.: Eng. Mechanic, July 4<sup>th</sup>

18<sup>th</sup>

U.S.: Harvard College Circulars 178, 179.

" : Lick Observatory Bulletin No 228.

" : Proc. Amer. Philo. Soc. Vol. 52, No 209 April.

" : Journal Franklin Institute July 1913.

Belgium: Gazette Astronomique No 68. 6<sup>me</sup> an. No. 8.

Eng.: Proc. Royal Society Ser. A, Vol. 88 No. A. 605.

" : Nature July 3<sup>rd</sup>

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- July 15<sup>th</sup> Eng: Knowledge July 1913.  
21 " : The Observatory July 1913. No. 463  
22 Belgium: Bulletin Sismique Nov Dec 1912 Jan. Feb 1913  
" : Les Tremblements de Terre enregistrés à Cartuy a 1912  
Barcelona: Sociedad Astron. de Barcelona An IV. No 31 June  
Philippines: Bulletin for Nov. 1912 Weather Bureau.  
23 Eng: English Mechanic. July 11<sup>th</sup> 1913  
" : Nature July 10<sup>th</sup>  
24 Can: Waterworks of Canada. Com. y Constr.  
U.S.: Annals New York Acad. Vol. 22 p 339.  
" : Contrib. Mount Wilson Solar Obs. 70-71, 72  
" : Astrophysical Journal Vol. XXXVIII. No 1.  
28 Syria: A. M. D. G. Observatoire de Ksara Mai 1913.  
29 U.S.: Proc. American Philosophical Soc. May-Aug. 1913  
" : Popular Astronomy Vol. XVI. No. 7 Aug. Sept.  
30 " : Memoirs Amer. Acad. Arts & Sciences Vol. XIV. No 1.  
" : Annals Astro. Obs. Smithsonian. Vol. III.  
Eng: English Mechanic. July 18<sup>th</sup> 1913  
" : Proc. Royal Society Ser. A. Vol. 88. No. 606  
U.S.: Lays Observatory Bulletin No. 21.  
31<sup>st</sup> France: L'Astronomie  
Can.: Monthly Weather Review. May 1913  
Eng.: Nature July 17<sup>th</sup>

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# Publications Received

From Canada & The Empire	22
July " The United States	22
" " Other Countries	6
	<hr/>
	60

- August Eng: - Knowledge Aug. 1913  
 " : The Observatory " "  
 " : English Mechanic July 25<sup>th</sup>  
 " : Nature July 21<sup>st</sup> 31<sup>st</sup> Aug. 7<sup>th</sup> 14<sup>th</sup> 21<sup>st</sup>  
 " : Journal Brit. Astron. Soc. Vol. ~~XXI~~ No 9.  
 " : Proceedings of the Royal Society ser. A. Vol. 89. Nos. 607-8  
 Ireland: " Royal Irish Academy Vol. 32. Ser. 2, Vol. 1.  
 Eng: Monthly Notices of the Royal Astron. Soc. Vol. 73 No. 8. June  
 " : List of Fellows Association " Society June 1913  
 Mexico: Boletín Mensual Obs. Meteor. Magnético UNAM Dec. 1912  
 Canada: Proceedings & Transactions Royal Society Canada 1912.  
 Italy: Memorie Soc. Spettros. Dial. July Aug. 1913  
 Belgium: L'ayette Astronomique No 69.  
 Can: Annuaire Université Laval 1913-1914  
 India: Journal Astron. Soc. of India Vol. II Nos 7-8. May June  
 Belgium: Ciel de Terre, 31<sup>st</sup> mai Nos 6-7. June July. 1913  
 Spain: Sociedad Astron. Barcelona. No 32. Aug.-Sept.  
 France: l'Astronomie Aug. 1913  
 Cal: Publications Astron. Soc. Pacific Vol. XXV. No 149 August

- Publications Received.

- August Germany: Veröffentlichungen der Grossherzoglichen Sternwarte zu Heidelberg. Band 6.
- Italy: Osserv. Astron. all' Equatoriale di Brera del 1912.
- Belgium: Statistique Solaire pendant ann. 1912.
- Syria: Bulletin Sismique No. 1-8 & Supplement Obs. de Ksara
- U.S.: Pick Observatory Bulletin 229, 230, 231, 232, 233, 234
- Philippine: Annual Report of Weather Bureau for 1912
- " : Monthly Bulletin for Dec. 1912, Jan, Feb. 1913
- U.S.: " Weather Review Vol. 41, No. 5 May.
- " : Proc. Amer. Acad. Arts & Sciences Vol. 49, 3 & 4
- " : Astronomical Journal Vol. 28, Nos. 3-4, (651-652)
- from (Canada & the Empire 15

August	"	The United States	13
	"	Other Countries	14
			<hr/>
			42

- Sep 3<sup>rd</sup> Spain: Bulletin Mensual del Obs. del Alro. Vol. III No. 9 Sept.
- S. Africa: Report of His Majesty's Astron. Observ. Cape of Good Hope
- 6<sup>th</sup> Germany: Monatsberichte der Seismischen Station  
du Jenachung 1910 bis Oct 1911
- 6<sup>th</sup> U.S.: Monthly Weather Review June 1913, 41-6
- Spain: Bulletin Mensual Seis. Coruña July 1913
- " : Bulletin Sismique Mars & Avril Mars. 1913.



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- Sep. 8<sup>th</sup> Holland: Photographic Chart Milky Way etc. by Dr. L. E. E. Easton
- U.S.: Harvard Bulletin 5210, 5200, 529, 522
- 9<sup>th</sup> " " : " " : 524, 525.
- Eng: Nature, Aug. 28<sup>th</sup>
- 10<sup>th</sup> " : Proc. Royal Society Ser. A. Vol. 89. No. 659
- Can: Monthly Weather Review. June 1913
- Mexico: Num. de la Soc. Antonio Alzate Tom 30, 7-12; 31, 1-6
- 11<sup>th</sup> U.S.: Lick Observatory Bulletin No 235.
- 12<sup>th</sup> Eng: Knowledge, Sept 1913
- " " : List of members. Brit. Astron. Assoc Sept 1913.
- " U.S.: Harvard College Bulletin No. 526
- " " : Journal Franklin Institute Sept. 1913.
- 15<sup>th</sup> " : Harvard Bulletin Nos. 527, 528
- " " : Amer. Mathematical Monthly Vol XX. No. 7.
- 16<sup>th</sup> Eng: The Observatory, No 465. Sept. 1913
- France: L'Astronomie, Sept. 1913.
- U.S.: Contributions. Mount Wilson Solar Obs. No 69, 73
- 18<sup>th</sup> Belgium: Gazette Astronomique No 70
- U.S.: Lick Observatory Bulletin No 236
- 20<sup>th</sup> Philippines: Weather Bureau Bulletin March 1913
- 22<sup>nd</sup> Scotland: Proceedings Royal Soc. Edinburgh Vol 33. p. 13.
- " U.S.: Astronomical Journal Vol 28. No 5. p. 653.
- " " : Report Earthquake Station St. Louis May 1<sup>st</sup> to Aug 31<sup>st</sup> 1913.

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# Publications Received.

- Sept 22 U.S.: Harvard Bulletin 529, 530  
" : Publications Smithsonian, No. 2226, 2189, 2190, 2191  
Can.: Report Meteorological Service Canada Year 1912  
24<sup>th</sup> U.S.: Proceedings Amer. Acad. Arts & Sciences No. 67, Vol. 49.  
25<sup>th</sup> Germany: Publ. Astrophys. Obs. Potsdam.  
U.S.: Lick Observatory Bulletin No. 241.  
Italy: Mem. Soc. Spectrosc. Ital. Vol. II Ser. 2<sup>a</sup> Sept. 13  
Spain: Bol. Mensual, Observ. del Oro del 1913, Vol. II, No. 10  
Eng: Geophysical Journal, Nov. 1912.  
U.S.: Astrophysical J. Vol. XXXVIII No. 2, Sept 1912  
Oct 2<sup>nd</sup> " : Harvard Bulletin Nos 531, 532.  
" : Astronomical Journal, No. 654  
3 India: Journal Astronomical Society of India Vol. II No. 9  
Belgium: L'Astronomie et la Physique du Globe  
6<sup>th</sup> U.S.: Harvard Bulletin 533.  
" : Lick Observatory Bulletin 237, 238, 240, 242, 243.  
" : Popular Astronomy Vol. XXI No. 8.  
" Eng: Memoirs Brit. Ast. Soc., Appendix to Vol. 15 & 18  
Belgium: Bulletin de l'Institut Solaire Sept-Dec 1912 Paris  
8<sup>th</sup> Austria: Proceedings Royal Society, Vol. XXIV.  
Belgium: Catalogue l'Observ. Royal de Belgique Tome II.  
U.S.: Publication of the Library of Congress, Washington  
Egypt: Bulletin No. 10 Khedivial Observatory

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- Oct 8th U.S. : Journal Franklin Institute Oct. 1913.
- Can. : Publication Dominion Observator Vol. I. Nos. 1, 2, 3, 4, 5.
- Eng. : Proc. Royal Society Ser. A. Vol. 89 No. 610
- Can. : Report of the Chief Astronomer for 1910.
- 11 " : Long Sault Rapids, etc. Commission of Conservation
- 14 Eng. : Knowledge. Oct. 1913.
- 15 Syria : Bulletin Sémiqué, Obs. de Kasra Nos. 9-15
- " : et M. D. G. " " July 1913
- " Japan : The Astronomical Herald, Sept. 1913.
- 17 Eng. : The Observatory No. 466 Oct. 1913.
- U.S. : Lowell Bulletin No. 58. Vol. 11 No. 8
- Germany : Monatsberichte der Seis. Station Jena Dec. Nos. 1911
- Belgium : Ciel de Terre Année XXXIV, Nos 8-9. Aug. Sep. 13.
- U.S. : Lick Observatory Bulletin No. 244
- 22 " : " " " No. 2399 Titus Sag. indy
- Spain : Bulletin Mensuel. Seis. Cantuja. Aug 1913.
- " : " " Soc. Astron. Barcelona. Oct. 1913
- Belgium : Gazette d'Astronomie, No. 71
- France : L'Astronomie. Oct. 1913.
- Philippines : Annual Report Director. Weather Bur. 1910
- " : Bulletin for April 1913.
- 24 U.S. : Monthly Weather Review Vol. 41 No. 7.
- 27 " : Harvard Bulletin No. 534

1913  
Oct. 28<sup>d</sup>

# Publications Received

U.S.: Proc. Amer. Phil. Soc. Vol 52. No 211.  
 Eng: Geophysical Journal Dec. 1912 Sec. 4<sup>th</sup> year No 12.  
 30<sup>d</sup> : Resultats des Calculs Numeriques etc by Carl Störmer.  
 30 U.S.: Harvard Bulletin No 535  
 " : Popular Astronomy Vol 21. No 9. Nov. 1913  
 " : Fourteenth Report Michigan Acad. of Science.  
 " United States 21  
 October Canada & the Empire 3  
 Other Countries 14  
 48.

Nov. 1<sup>st</sup> U.S.: Astrophysical Journal Vol 38 No. 3  
 S. Africa: Circular No 8. 1913. Union Observatory  
 U.S.: Harvard Bulletin 536. 537.  
 3<sup>rd</sup> " : Lowell Bulletin No. 57  
 Eng: Journal Brit. Astron. Ass. Annual Report.  
 4<sup>th</sup> U.S.: Trans. Acad. Science 8<sup>th</sup> Series Vol XIX. 11, XX. 1-7, XX. 1-4  
 7<sup>th</sup> " : Monthly Weather Review, Vol 41, No. 8 Aug. 1913.  
 Can.: Proc. & Trans. Nova Scotian Inst. Science Vol III. Pt 4  
 Spain: Boletín Mensual Obs. del Uro. Vol III. No. Nov. 1912  
 10 U.S.: Proc. Amer. Acad. Arts & Sciences Vol 49. Nos 8-9-10  
 Danish: Publikationer og mindre Meddelelser - København Obs. No 14.  
 German: Monthly Notices, Roy. Astron. Soc. 7. Vol 73. No 9.  
 German: Astronomischer Jahrbuchbericht XIV. Band. 1912



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Publications Received.

- Dec. 1<sup>st</sup> S. Africa: History & Description of the Royal Observatory
- 4 U.S.: Harvard Bulletin No. 538
- " : Index & Title-page Bulletin Phil Soc. Washington
- 6 Spain: Boletín Mensual Obs. Central No. 9. 10
- 8<sup>th</sup> U.S.: Astronomical Journal Nos 656, 657.
- 9<sup>th</sup> Eng: Nature, 13 nos. Sept. 4<sup>th</sup> to Nov. 27<sup>th</sup>
- 11 U.S.: Lick Observatory Bulletin No. 246.
- 12 " : Journal the Franklin Institute Dec. 1913. No. 2006.
- " Italy: Memorie Soc. degli Spettros. Ital. Vol. II. Ser. 2. No. 3
- Spain: Boletín Mensual del Obs. del Nro. Sr. No. 12.
- 14 Eng: Nature. Dec. 4
- " : English Mechanic Dec. 5<sup>th</sup>
- Cal.: Publications, Astron. Soc. of the Pacific. No. 151 Dec.
- U.S.: Contr. Mount Wilson Solar Obs. No. 74, 757. Index.
- 18 " : Public. Astron. Soc. of Pomona Cal. Vol. II. No. 101.
- " : Bulletin Weather Bureau, Philippines June 1913
- Japan: The Astronomical Herald Nov. 1913.
- German: Monatsberichte der Kaiserlichen Sternwarte in Berlin. Jena. Mai 1913.
- Can.: Year-Book & Annual Report Canadian Institute  
Transactions Nov. 1913 .. ..
- 20 U.S.: John Crever Library Handbook. 1913.
- " Mexico: Boletín Mensual Obs. Meteor. Central Jan. Feb. 1913.
- 22 Eng: Nature. Dec. 11<sup>th</sup>
- " : Knowledge. December

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# Publications Received.

- Dec. 22<sup>nd</sup> Eng : The Observatory Nos. 468, 469  
 " U.S. : Amer. Math. Monthly Vol 20 No. 10.  
 " " : Harvard Bulletin Nos 539, 540, 541.  
 " Eng : English Mechanic Dec. 12<sup>th</sup>  
 Belg. : Gazette Astronomique. No 73  
 26 U.S. : Harvard Bulletin No. 542.  
 " : Lick Observatory Bulletin No 247, 248  
 28 " : Harvard College " 543.  
 Italy : Memorie ed Osservazioni. Collegio Romano R.V. P.I.  
 Eng : Monthly Notices R.A.S. Vol ~~LXXV~~. No 1.  
 30 " : Nature Dec. 18<sup>th</sup>  
 " : English Mechanic Dec. 19<sup>th</sup>  
 Cal. : Publication Astron. Soc. Pacific Nos 149-150  
 31<sup>st</sup> Belgium : "Ciel de Terre" Nov. 1913.  
 France : Specimen Carte photographique de la Lune  
 U.S. : Proc. Amer. Phil. Soc. 1 Nov. Dec. 1913.  
 " : Harvard College Old Circular 180.  
 Can. : Forest Protection in Canada 1912  
 Eng : English Mechanic. back numbers from Aug 1<sup>st</sup> to Nov. 4<sup>th</sup> 1913

from Canada & the Empire	15
" The United States	25
Other Countries	<u>11</u>
	51

1914

Publications Received.

- Jan. 2<sup>nd</sup> U.S. : Popular Astronomy, Jan. 1914 Vol ~~XXII~~ No. 1.
- " Eng. : English Mechanic. Friday Dec 26<sup>th</sup>
- 5<sup>th</sup> Spain: Boletín Mensual Obs. del Alro Vol. ~~IX~~ Nos. 1, 2.
- Denmark: Public. Høstenhavns Observatorium No 15
- S. Africa: Union Observation Circular No. 9.
- 6 Eng. : Memoirs of the Royal Astron Soc. Vol LX. Pt. 3.
- " : Journal Brit. Astron. Ass. Vol XXXIV. No. 2.
- U.S. : Monthly Weather Review Vol 41 No. 9.
- Can. : " " " " Vol XXXVII No 10
- Spain: Boletín Mensual. Sta. Sec. Cordoba Vol. 1913.
- " : Bulletin Sismique, June - Sept 1913
- 9<sup>th</sup> U.S. : Annals, Harvard Coll. Obs. Vol 76 Pt. 1, 78. Pt. 1.
- 12 Eng. : Nature, Jan. 17.
- " : Proceedings Royal Society Seret. Vol 89 No. 5. 12
- U.S. : Journal Franklin Institute Jan. 1914
- Italy: Memorie Soc. degli Spettros. Ital. Dec. 1913
- Eng. : English Mechanic, Jan. 2<sup>nd</sup>
- 16 Japan: Astronomical Herald Vol VII. No. 9. Dec.
- U.S. : Astrophysical Journal Vol 38, No. 5.
- Spain: Anales de Optica Matemática
- 19<sup>th</sup> Eng. : English Mechanic, Jan. 9<sup>th</sup>
- " : The Observatory, Jan. 1914
- U.S. : The Astronomical Journal Nos 658-659.



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- Jan. 19<sup>th</sup> Eng: Annual Report: Cambridge Observator
  - " " : Report of Com. Societas Com. Brit. Ass<sup>n</sup>. Ad. Science
  - " " : Nature. Jan. 8<sup>th</sup>
  - 22 Germany: Sitzungsberichte der math. physik. Akad. Wiss. zu München <sup>I II III</sup> 1912
  - " Mexico: Anuario del Obs. Astron. Tacubaya. 1914
  - " Eng: Knowledge. January 1914
  - 23 Germany: Publik. Astrophys. Obs. Potsdam. Nr. 66, 67, 68, 69.
  - 26 Spain: Boletin Mensual. Soc. Astron. Barcelona Dec. 1913.
  - " Germany: Publik. der Polytechnikum zu Zurich. Band V.
  - " France: L'Astronomie. Jan. 1914
  - " Eng: Nature. Jan. 15<sup>th</sup>
  - 28 " : English Mechanic Jan. 16<sup>th</sup>
  - " U.S. : Monthly Weather Review Vol. 41 No. 10. Oct 1913.
  - 30 Mexico: Boletin Mensual de Obs. Meteor. Mag. Mexico <sup>Mar</sup>
  - " U.S. : Publication Astron. Soc. Pacific. Dec. 1913.
  - " " : Popular Astronomy Feb. 1914
  - Mexico: Memorias Soc. Cient. "Antonio Alzate" Tomo 32. 798, 799, 800
  - " U.S. : Publication Allegheny Obs. Vol II. No 7, 8.
  - 31<sup>st</sup> France: Ciel de Terre. Dec 1913. 34 An No 12.
  - " U.S. : Astronomical Journal No. 660
- |                          |           |
|--------------------------|-----------|
| from Canada & the Empire | 16        |
| " the United States      | 12        |
| " Other Countries        | 29        |
| <b>Total</b>             | <b>57</b> |

# Publications Received.

Feb. 1914

- 4<sup>th</sup> Eng.: Journal of British Astron. Ass<sup>n</sup>: Vol 24, No 3.  
 " : Nature: Jan. 22<sup>nd</sup> 1914  
 " : Eng. Mechanic. Jan. 23<sup>rd</sup> 1914  
 " : Monthly Notices. R. A. S. Vol 74 No 2. Dec. 13  
 U.S.: "Dark Regions in the Sky etc" by R. S. Barnard  
 " : Astrophysical Journal. Vol 39 No 1. Jan. 1914  
 " : Annals of New York Acad. of Science. No 25 pp. 1-143  
 Spain: Boletín Mensual Vol IV No 3 & 4 Obs. del Ebro.  
 Belgium: Gazette Astronomique No 74.  
 India: Journal Astronomical Soc<sup>y</sup> India. Vol IV No 1. No.  
 7<sup>th</sup> U.S.: Journal Franklin Institute Vol 177. No 2. Feb.  
 " : Monthly Weather Review Vol 41 No 11. Nov. 1913.  
 9<sup>th</sup> S. Africa: Union Observatory. Circular No 10-13 Nov. 22<sup>nd</sup> 1913  
 Germany: Veröffentlichungen der Grossherzoglichen <sup>Band 7, No 14</sup> Sternwarte Heidelberg  
 India: Journal Astron. Soc<sup>y</sup> of India Vol IV No 2  
 10 Norway: Observation des Aurores Boréales a Borchop 1913.  
 " : Über eine Nordlichtexpedition nach ..  
 Eng.: Nature, Jan. 29<sup>th</sup>  
 " : Eng. Mechanic, Jan. 30<sup>th</sup>  
 12 Philippin: Bulletin for July 1913. Weather Bureau  
 " : Annual Report for 1910  
 16 Spain: Boletín Mensual. Sociedad Astron. Barcelona Jan. 1914  
 U.S.: Monthly Report on Mars. Prof. P. C. Kelding.

1914 Publications Received.

- 16<sup>th</sup> France: J'Aurore Boréale, Henri Comauld.
- 21 U.S.: Lick Observatory Bulletin No. 250
- " " : Proc. Amer. Acad. Arts & Science. Vol. XLIX. No. 1.
- " Eng: English Mechanic Feb. 6<sup>th</sup> 1914
- " " : Nature. Feb. 5<sup>th</sup>
- " " : Knowledge. February 1914
- " " : The Observatory February 1914
- " " : Proceedings. The Royal Society Ser. A. Vol. 89. No. 615
- 25 U.S.: Publication Astron. Soc. Pacific (XXXI). No. 52 Jan
- Belgium: Bulletin Soc. Belge d'Astron. 25<sup>th</sup> year Vol. Jan. 1914
- France: J'Astronomie Feb. 1914 28<sup>th</sup> year.
- Eng: Nature Feb. 12<sup>th</sup> 1914
- 26 " : English Mechanic Feb. 13<sup>th</sup>
- 27 Australia: Proceedings Western Australia Astron. Soc. Vol. I.
- Belgium: Gazette Astronomique No. 75. 1914 No. 2.
- Spain: Bol. An. Mensual. Soc. Astron. de Barcelona Feb. 1914

From Canada & the Empire	16
the United States	9
Other Countries	13
February	<hr/>
	Total 38

# Publications Received.

- March U.S.: Popular Astronomy, Mar. 1914
- Italy: Memorie Soc. Spettros. Nat. Vol 3 Ser. 2<sup>a</sup> Jan. 14
- 4<sup>th</sup> Spain: Boletín Mensual, Vol IV. No. 5. May 1913. 2 bro.
- Eng: Monthly Notices R.A.S. Vol LXXIV No. 3. Jan. 1914
- " Journal Brit. Astron. Assoc. Vol XXIV No. 4. Jan. 14
- " English Mechanic, Feb. 20<sup>th</sup> 1914
- " Memoirs Brit. Astron. Assoc. Vol XIX. Pt. IV
- " Nature Feb. 19<sup>th</sup> 1914. Polar Commission
- 5 Belgium: Procès-Verbal de la Session Tenue a Rome en 1913.
- 7 U.S.: Monthly Weather Review Vol 41 No. 2 Dec. 1913
- " Astronomical Journal Nos. 661-662-663.
- 9 Can.: Monthly Weather Review Vol 37 No. 2. Dec. 1913
- 10 U.S.: Journal of Franklin Institute CLXXVII, No. 3. March
- " Annual Report Mount Wilson Solar Obs. 1913.
- " Contributions from the " " " No. 76
- " Mexico: Boletín Obs. Astron. Nacional, Num. 4
- " Eng: English Mechanic, Feb. 27<sup>th</sup>
- 11 U.S.: Fifteenth Report Michigan Acad. Science 1913
- 12 Eng: Nature, Feb. 26<sup>th</sup>
- 13 " U.S.: Proc. Royal Society Ser. A. Vol 89, No. 614.
- 14 Belgium: Société d'Astronomie d'Anvers, Weekly Report.
- Spain: Boletín Mensual, Seismol. Cartaya. Jan. 1914.
- U.S.: Harvard College Bulletin No. 544.

1914

# Publications Received

- March 16<sup>th</sup> Eng: English Mechanic, Mar. 6<sup>th</sup>  
Syria: A. G. D. G. Obs. de Kasra, Bulletin Meteor. Sept. Oct. No.  
Germany: Monatsberichte. Ser. Jena. Juni 1912.  
17 Eng: Nature Mar. 5<sup>th</sup>  
20 Germany: Astronomische Mitteilungen, Nr CIV.  
21 Spain: Bulletin Mensuel, Soc. Astron Barcelona, Mar. 1914  
" U.S.: Astronomical Journal, Vol 4, No 25 & 26  
23 Eng: Nautical Almanach for 1916  
" " : The Observatory, March 1914 No 2, 72  
" U.S.: Howard Circular 181.  
" India: Journal, Astronomical Soc. India Vol IV, No 3.  
24 Eng: Nature, March 12<sup>th</sup>  
" " : English Mechanic, March 13<sup>th</sup>  
" " : Knowledge, March 1914  
" Belgium: Ciel de Terre, Feb. 1914 ~~XXXV~~ - No 2.  
30 " : Gazette Astronomique, No 7 6 1914 No 3.  
U.S.: Astrophysical Journal, Vol ~~XXXIX~~ No 2.  
31 Eng: English Mechanic, March 20<sup>th</sup>  
" " : Journal, Brit. Astron. Assoc. Vol ~~XXIV~~ No 5 46  
" Denmark: Publik. Meddelelse Kobenhavns Obs, No 16  
" Spain: Bulletin mensuel, Obs. Urb. June 1913, Vol IV, No 6.  
" U.S.: Howard Circular, 181, 182, Dip. Bulletin 529-543.  
" " : " Study of the Stars by Prof. H. P. Pickering  
" " : " Annual Report Astron. Obs. Harvard.

1914

Publications Received.

- April 2<sup>nd</sup> U.S. : Howard Bulletin No. 545
- Nov. " : Bulletin. Weather Bureau Philippines. Sept. 1913.
- " France: Rapport Annuel, Obs. Paris. 1913.
- " : l' Astronomie Mar. 1914
- Eng : Nature - Mar. 19<sup>th</sup> 1914.
- " : Popular Astronomy Vol XXII No 4 April.
- 3 Italy: Memorie. Soc. Spettros. Dial. Dup. 2. Vol. 14
- " U.S. : Howard Bulletin No. 546
- 4 " : " " No 547.
- 6 West India: Monthly Report on Mars No 3. Prof W.H. Pickering
- U.S. : Howard Bulletin No 548.
- S. Africa: Union Observatory Circular Nos. 14, 15.
- India: Almanack for 1915 (in Bengali)
- 7 Eng : English Mechanic, Mar. 24<sup>th</sup>
- " : Nature, Mar. 26<sup>th</sup>
- " : Monthly Notices, R. A. S. Vol XXXIV No 4. Feb. 14
- U.S. : Journal. The Franklin Institute April 1914
- Mexico: Bulletin Mensual. Meteor. Mag. Central, May, June. 1913.
- 9 U.S. : Lick Observatory Bulletin, No. 252.
- 13 " : " " " No 253.
- " : Astronomical Journal No. 665, Vol 28. No 17
- Philippine: Weather Bureau, Bulletin for Oct. 1913.
- 14 Can. : Report upon Public Libraries, Scientific Inst. 1913
- Eng. : English Mechanic, Apr 3<sup>rd</sup>.

1914

Publication Received.

- Eng: Proceedings Royal Society Ser. A. Vol. 90, No. 615  
14 .. : Nature, April 2<sup>nd</sup>  
20 .. : " April 9<sup>th</sup>  
.. : The Observatory, April 1914  
.. U.S.: Astronomical Journal No. 605  
21 Eng: Proceedings Royal Society Edinburgh (139, Pt. 4, Vol. 34, Pt. 1)  
.. India: Journal Astron. Society India, Vol. IV, 1914.  
.. Am: Monthly Weather Review Jan 1914  
.. Eng: English Mechanic, April 10<sup>th</sup>  
22 .. : Geophysical Journal, Jan & Feb 1913, 9 Introduction  
.. U.S.: Lick Observatory Bulletin, No. 251.  
Belgium: Boletim Mensual, Soc. Astron. Barcelona, April 1914  
24 Syria: A. M. D. G. Meteor. Bull. 2<sup>nd</sup> year, 1914 January  
27 U.S.: Astrophysical Journal Vol. XXXIX, No. 3.  
.. : Pub. Astron. Soc. of Pacific Vol. 26, No. 153, April  
.. Egypt: Bulletin No. 11 Khedivial Obs. Helwan  
29 Eng: Knowledge, April 1914  
.. : Geophysical Journal, March 1913, 3<sup>rd</sup> year 1913.  
.. : English Mechanic April 17<sup>th</sup>  
.. : Nature, April 16<sup>th</sup>  
.. Italy: Memorie Soc. Spettros. Itali. Diff. 3. Vol. III, Ser. 2, May 14  
.. Belgium: Gazette Astronomique, No. 77, 1914, Vol. 4.  
.. France: L'Astronomie, April 1914  
.. Spain: Boletim Mensual del Observatorio Elbr. Vol. II, 7, July 13

1914

Publications Received.

May.	April - From Canada & the Empire	20
	- The United States	15
	Other Countries	17
	Total	52

- May 1<sup>st</sup> U.S.: Public. Astron. Soc. Pomona College Vol II No 2, <sup>1913</sup> am.
- .. Popular Astronomy Vol XXXI No 5. May 1914
- Sweden: Union Obs. Circular No 16, 1914 Mar. 3<sup>rd</sup>
- 4<sup>th</sup> U.S.: Journal, Franklin Institute, May 1914 No 5.
- Denmark: Public. Copenhagen Observatory Nos 17. 18.
- 5<sup>th</sup> Eng: Journal Brit. Astron. Ass. March 1914 No 24 & 26.
- .. Nature April 23<sup>rd</sup> 1914
- .. U.S.: Contrib. Mount Wilson Sol. Obs. Nos. 77, 78, 80, 81, 79.
- 6<sup>th</sup> Eng: English Mechanic, April 24<sup>th</sup>
- .. U.S.: Annual Report Naval Obs. 1913.
- .. Belgium: Bulletin Soc. Belge d'Astron. 35<sup>th</sup> year, No 3, March
- 7<sup>th</sup> .. Monthly Notices Vol. LXXII, No 5, March 1914
- .. Proc. The Royal Society Ser. A Vol 90 No 2 & 66.
- 9<sup>th</sup> U.S.: Astronomical Journal, No 666.
- 11<sup>th</sup> Eng: Nature, April 30<sup>th</sup> 1914
- .. English Mechanic, May 1<sup>st</sup>
- .. U.S.: Proc. Amer. Acad. Arts & Sci. Vol. L, No 1, May 1914
- 12<sup>th</sup> .. Lowell Observatory Bulletin No 59
- .. Eng: Geophysical Journal, 3<sup>rd</sup> year No 4 Ap. 1913.





# Publications Received.

- 1914
- May 20 France: Bulletin d'Astron. Pop. Toulouse 1914 No 21  
 .. Spain: Soc. Astron. Barcelona A.V. No 40 May 1914  
 .. U.S.: Lowell Bulletin No 60. Vol II No 18.  
 .. : Harvard Bulletin's 549, 550
- 21 France: Catalogue photographique du Ciel, Appen to Tome IV.  
 .. : " " Tome V. IV (preonly) Tome VII.  
 U.S.: Monthly Weather Review Vol 42 No 1, 2.  
 .. : Annals Obs. Harvard Vol LXIII No 2.  
 .. : Publication Lick Obs. Vol VII (bound) 1913
- Spain: Bulletin Mensual Seis. Carlina. No 3 Mayo
- 26 U.S.: Astronomical Journal No 667 Vol 28 No 19.  
 .. : Lick Observatory Bulletin No 254  
 .. : Astrophysical Journal, No. 4, Vol 39.  
 Eng.: English Mechanic, etc. May 15<sup>th</sup> 1914  
 .. : Nature, May 14<sup>th</sup>
- 24 Philippines: Bulletin for Nov. 1913  
 .. : Annual Report Weather Bureau for 1911
- 28 Eng.: Monthly Notices, Vol LXXIV No 6. April  
 .. : Oxford Astrographic Catalogue Vol VII Pt. 1.
- Germany: Veröffentlichungen Band I. Heft 172.  
 .. : Katalog & Ephemeriden Veränderlicher Sterne <sup>1911-14</sup>  
 .. : Jahresberichte 1910, 1911, 1912.
- 29 Eng.: Tables of Harmonic Analysis, H.M. Turner, D.Sc.  
 .. : Illustrated list of Lunar Formations, Oxford.

# Publications Received.

1914  
May 30<sup>th</sup>

U.S.: Howard Obs. Bulletin 553 ..

May.	From Canada & the Empire	26
"	" The United States	24
"	" Other Countries	26
		76

June

Eng: English Mechanic - May 22<sup>nd</sup>

" Nature, May 21<sup>st</sup>

U.S.: Lowell Obs. Bulletin No. 61

" Popular Astronomy Vol ~~XXII~~ No. 6.

4<sup>th</sup>

Eng: Journal Brit. Astron. Ass. Vol ~~XXIV~~ No. 7.

U.S.: Franklin Institute Vol ~~XXXIII~~ No. 6. June.

6<sup>th</sup> " John Curran Library 19<sup>th</sup> annual report 1913.

8<sup>th</sup>

Mauritius: Mag. & Meteor. Observations made in 1907-1909

" Annual Report, Royal Alfred Obs. 1912

Eng: Proceedings The Royal Society Ser. A. Vol 90 No. 615.

Italy: Memorie Soc. Spettros. Ital. April 1914 Vol III. Ser. 2.

Belgium: Bulletin Soc. Belge d'Astron. an ~~XXXV~~ No. 4. April

Germany: Astronomisches Jahrbuch for 1916

S. Africa: Report His Majesty's Astronomer Cape of Good Hope 1913.

U.S.: Lowell Bulletin No. 62

9

Eng: English Mechanic May 29

Belgium: Memorie Soc. d'Astron. d'Ambers I. 1914

Eng: Memorie Royal Astronomical Soc. Vol ~~LX~~ p. 4.

# Publications Received.

1914  
June 10<sup>th</sup>

- U.S.: Astronomical Journal No. 668, Vol. ~~XXIV~~ No. 20.  
 " : Public. Allegheny Observatory Vol. III. Nos. 9, 10.  
 Eng.: Nature, May 28<sup>th</sup>.  
~~Belgium~~ ~~Belgium~~: Gazette Astronomique No 78 1914, No. 5.  
 Eng.: Nature, June 4<sup>th</sup> 1914  
 Germany: Annalen der Hydrog. 1 Mar Meteor Heft 11. 1913, 1-514  
 15<sup>th</sup> U.S.: Harvard College Circular 183.  
 " : Pub. Astron. Soc. Pacific. Vol. ~~XXVI~~ No. 154  
 Eng.: English Mechanic 1 June 5<sup>th</sup>  
 17<sup>th</sup> Belgium: Annales de l'Obs. Roy. Belgique Tome ~~XIV~~ Part.  
 Can.: Proceedings & Transactions Royal Society  
 of Canada Vol. ~~VII~~ 1913.  
 18<sup>th</sup> Eng.: "The Observatory", June 1914 No. 275  
 20 Denmark: Publik. Kopenhagen Obs. C. No. 19  
 Germany: Annal. Hydro. Mari. Meteor. Hambro. Heft. V.  
 Eng.: Monthly Notices R.A.S. Vol. ~~LXXXIV~~ No. 7. May.  
 22 " : Nature, June 11<sup>th</sup>  
 Can.: Ontario Hist. Soc. Papers & Records Vol. ~~XII~~.  
 Germany: Absorption und Lichtplanzungsgeschwindigkeit etc  
 Spain: Bolletin Mensual Soc. Barcelona Astr. No. 41 June July.  
 23 Eng.: English Mechanic - June 12<sup>th</sup>  
 24 " : Knowledge, June 1914  
 Belgium: Ciel de Terre, Mai 1914 ~~XXXV~~ No. 5.  
 France: Bulletin Soc. Populaire Toulouse, 5<sup>me</sup> année 1914 No. 22.

# Publications Received.

- June 25<sup>th</sup> U.S.: Monthly Report on Mars No. 5  
 " : Publication Allegheny Obs. Vol III. No. 11, 12.  
 27 Eng: Nature. June 18<sup>th</sup>  
 " : Journal Brit. Astron. Ass. Vol XXIV. No. 8. May 14  
 " : English Mechanic. June 19<sup>th</sup>  
 " : U.S.: Astrophysical Journal Vol XXXIX. No. 5 June 1914  
 " : Proc. Amer. Acad. Arts & Sc. No. 50. Nos 2 & 3.  
 30 Austral: Proc. Royal Society Queensland, Vol XXV.  
 " : U.S.: Lick Observatory Bulletin No. 255  
 " : France: L'Astronomie. Juin 1914

J	U.S.: Published in Canada & the Empire	20	
	" " The United States	16	
	June Other Countries	17	
		53.	

- July U.S.: Monthly Weather Review. Vol 42 Nos. 3. Mar 14  
 Belgium: Gazette Astronomique 1914 No. 6. No 79  
 July 3 U.S.: Journal Franklin Institute Vol 178 No. 1. July 14  
 " : Harvard Coll. Obs. Bulletin: 554,  
 Can.: University of Tor. Studies Nos. 99, 100  
 6 Eng: Nature June 25<sup>th</sup>  
 " : English Mechanic June 26<sup>th</sup>  
 U.S.: Harvard Bulletin: 555, 556  
 Peru: Boletín Soc. Geog. Lima. Año XXI. Tomo XXVII  
 German: Monatsberichte der Hauptst. Jena. June, July, Aug. 1912.

# Publications Received

- July 6<sup>th</sup> Belgium: "Ciel de Terre," June 1914
- " Japan: Astronomical Herald. Vol IV. 12 Vol VII. 2.
- " Argentina: Publication Astron Obs. Navari La Plata, Tome I.
- 8 Japan: Astronomical Herald Vol VIII Nos 1-3.
- 12 Eng: Nature July 2<sup>nd</sup>
- " " : Proc. The Royal Society Ser A. Vol 80 No 619
- " " : English Mechanic July 3<sup>rd</sup> 1914
- U.S. : Lick Obs. Bulletin No. 256
- " : Harvard Coll. Bulletin No. 557
- 13 " : Visual Observations Halley's Comet <sup>by J. S. Bernard</sup> in 1910
- " Mexico: Soc. Sc. Antonio Alzate, Tome 32 Nos 9. 10 1-33, 9-10.
- 18 Syria: Observatoire de Kasara, Bulletin Ser. Dec. 1913 to June 1914
- " " : A. M. D. G. Mar. 1914
- " France: Observations et Travaux <sup>Vol II</sup> Soc. Astron de France
- " Eng: Cambridge Un. Library Report 1913.
- 20 Italy: Memorie Soc. degli Spettros. Ital. Diss. Vol III Ser 2
- " Eng: Nature July 9<sup>th</sup> 1914
- " " : The Observatory July 1914
- " " : Knowledge July 1914
- " " : English Mechanic, July 10<sup>th</sup>
- 21 Philippin: Weather Bureau Bulletin for Jan. 1914
- 22 U.S. : Conti. Monni Wilson Sol. Obs. Nos 82
- Germany: Annal. der Hydro. Marit. Meteor. Heft VIII

1914

# Publications Received

- July 22<sup>nd</sup> Ottawa: Public Dominion Obs. Vol I Nos. 6, 7, 8.
- France: Bulletin Soc. d'Astron. Pp. de Toulouse No. 23
- 27 U.S.: Harvard Bulletin 558
- " " : Lick Observatory Bulletin 257
- " " : Proc. Amer. Phil. Soc. Vol 53, No. 213.
- 28 Eng.: Nature, July 16<sup>th</sup> 1914
- " " : English Mechanic, July 17<sup>th</sup>
- " " : Univ. of Cambridge, Solar Physics Obs. 1<sup>st</sup> Ann. Report
- Argentina: D. M. Maps. Nos. 9-12. An. National Obs.
- Belgium: ~~Belgium~~ ~~Belgium~~ Gazette Astronomique, No. 80, 1914 No. 7
- Ottawa: Fur Farming in Canada, Com. of Cons. 1914
- U.S.: Monthly Weather Review, Vol 42 No. 6.
- Scotland: Proc. Roy. Soc. Edinburgh. Vol 34 pt. 2.

Published in Canada & the Empire	18
" " The United States	12
" " Other Countries	17
	47

- August Eng.: Monthly Notices, Roy. Astron. Soc. Vol 78, Nos. 9 June
- " " : Journal, Brit. Astron. Ass. Vol. 24 No. 9. June.
- " " : Roy. Astron. Soc. List of Fellows & Associates June 1914
- " " : Nature, July 23, 30, Aug. 6, 13, 20.
- " " : Geophysical Journal 1912 Annual Supplement
- " " : The Observatory, No 477, Aug. 1914
- " " : Proceedings, Royal Society Ser. A. Vol 90 No. 620.

1914

Publications Received

- Aug. Ireland: Proc. Roy. Irish Acad. Vol 33, Sect. A. No. 2.  
" Can: Monthly Weather Review May 1914  
" S. Africa: Union Observatory, Circular No. 17. May 27, 1914  
" India: Journal Astron. Soc. India April 1914 Vol II No. 6.  
" U.S.: Monthly Weather Review Vol 42, No. 5. May.  
" " : Journal, Franklin Institute Aug. 1914  
" " : Astrophysical Journal Vol XL, No. 1. July.  
" " : Popular Astronomy. Vol 22, No. 7.  
" " : Proc. Amer. Phil. Socy. Vol LI, No. 214.  
" " : Publ. Astron. Soc. Pacific General Index.  
" " : Weather Bureau, Philippines, Bulletin, Feb. 1914  
" " : Lowell Bulletin, No. 63.  
" " : Harvard " No. 559  
" " : Lick " Nos. 258, 259, 260  
" " : Astronomical Journal No. 669  
" " : Publ. Allegheny Observatory Vol III Nos. 13, 14  
" Spain: Bol. Observ. Alca. Sept. 1913, Vol IV, No. 9.  
" " : Mem. del Obs. Alca. No. 55. "Los Abacos, etc."  
" Norway: Resultats des calculs Numeriques etc p. C. Störmer. <sup>Vol III</sup>  
" Italy: Public. Osservatorio Astron. all' Equatoriale di  
" Spain: Bol. Observ. Alca. Sism. Cartuja April May 1914  
" " : Bulletin sis. Jan-Feb. Mar. 1914, Soc. Belge d'Astron.  
" Italy: Memorie Soc. Spettros. Ital. Vol III Ser 2 June  
" Egypt: Bulletin No. 12 Khedivial Obs. Helwan.



1914 Publications Received.

- Aug. Peru: Bol. Soc. Geog. de Lima. Tome 29. Trimestre IV.  
 Eng: Proc. The Royal Society Ser. A. Vol. 90 No. 621  
 U.S.: Journal, The Franklin Institute, Sept. 1914
- Sept. 5  
 Published in Canada & the Empire 17  
 the United States 15  
 Other Countries 10  


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 42
- Sept 8<sup>th</sup> Eng: Nature, Aug. 27<sup>th</sup> 1914  
 " U.S.: Publications, Lick Observatory Vol. XI. 1913.  
 " " : Contributions Mount Wilson Solar Obs. Nos 83-85. <sup>Vol. IV.</sup>  
 11<sup>th</sup> " : Proc. Amer. Acad. Arts & Sciences Vol. 19, No. 12  
 " Japan: Astronomical Herald, Vol. VII Nos 5 & 4.  
 " U.S.: Annals N.Y. Acad. of Sciences, Vol. 24 p. 1-170  
 14<sup>th</sup> Africa: Circular No. 15 Union Observatory June 22<sup>nd</sup> 14  
 Eng: Nature Sept. 3<sup>rd</sup> 1914  
 U.S.: Annals N.Y. Acad. Sciences, Vol. XXIII. pp. 315-353.  
 22 Italy: Memorie Soc. Spettros. Ital. Disp. 7<sup>a</sup> Vol. II Ser. 2<sup>a</sup>  
 " Belgium: Gazette Astronomique, No. 81.  
 England: Geophysical Journal 1912. Aug 1913.  
 " Knowledge, Sept. 1914  
 " : The Observatory, Sept. 1914 No. 478  
 U.S.: Harvard Bulletin No. 561  
 24 Philippine: Annual Report Pt. III. Weather Bureau  
 " Bulletin March 1914

1914

# Publications Received.

- Sept 20<sup>th</sup> Eng: List of Members, Brit Astron Assoc. Sept 1914
- 25 Can: Monthly Weather Review, June 1914
- .. U.S.: - Harvard Bulletin, nos. 562-563.
- 28 ..: .. Annals, Vol 73, pt 1: Vol 69, pt 2.
- .. ..: Monthly Report on Mars, No. 6.

Published in Canada & the Empire 17  
 .. The United States 8  
 Other Countries 4  


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 29

- Oct 1<sup>st</sup> U.S.: Popular Astronomy, Vol XXII, no 8. Oct.
- .. 3 Italy: "Scientia" a specimen copy Vol XVI N. XXXVII 5.
- 5 U.S.: Harvard Bulletin No. 566
- .. ..: Lick .. 261
- Ireland: Proc. Roy Irish Acad.
- 7 U.S.: Astrophysical Journal Vol XL, No. 2.
- 9 ..: Monthly Weather Review, Vol 42, no 6.
- 13 England: Jour. & Tran. for 1913 Leeds Astron. Soc.
- .. Italy: Mem. Soc. Spectros. Ital. Disp. 5<sup>a</sup>: Vol III, ser 2<sup>a</sup>.
- 14 Can: Monthly Weather Review Vol 38 No 7, July 1914
- .. U.S.: Lowell Bulletin No. 64
- .. Can: Victoria College Bull. & Cal. & Calendar of University
- 15 Spain: Boletín Mensual Soc. Astrón Barc. Aug-Sept: Oct
- .. Eng: The Observatory, Oct 1914 No 479.

1914

# Publications Received

- Oct 21 U.S.: Public. Astron. Soc. Pacific. Vol 26 no. 155 Oct.
- Spain: Bol. Men. Sis. Isl. Cartuja. No 8. Aug. 1914
- U.S.: Weather Bulletin, Philippines. April 1914

" : Rainfall in the "

- 23 " : Proc. Amer. Acad. Arts & Sciences. Vol L. No 5. Oct. 14

- 27 " : Harvard Bulletin No. 568

- 29 Can. : Annual Report, Ontario Historical Society 1914

Canada & the Empire 6

United States 11

Other Countries 4

21

- Nov. 2<sup>nd</sup> U.S. : Bulletin No. 1. University of Missouri, Fair Obs.

- " " : Popular Astronomy; Vol 22. No 9. Nov. 1914

- " Eng. : Knowledge. October

- " U.S. : Lick Observatory Bulletin No. 262

- 3 Dialy : Memorie, Soc. d. Spettro. Dial. Dip. 9. Vol III 229

- " Ing. : Journal, Brit. Astr. Soc. Annual Report 1913-14

- 5 U.S. : Contribution Mount Wilson Star Obs. Nos 86-89

- 9 Eng. : Nature. 8. nos. Sept. 10<sup>th</sup>, 17, 24, Oct. 1, 8, 15, 22, 29

- " U.S. : Harvard Bulletin No. 569

- " " : Journal Franklin Institute Nov. 1914

- " " : Monthly Weather Review July 1914

- 10 Japan : Astronomical Herald Vol VII. nos. 607.

1914

## Publications Received.

- Nov. 11<sup>th</sup> Can. : Monthly Weather Review Aug 1914  
 " " Eng. : English Mechanic July 31<sup>st</sup> to Oct 30<sup>th</sup> (4 nos)  
 " " " : Monthly Notices, Vol LXXIV No 9.  
 12 U.S. : Astrophysical Journal Vol XL No 3.  
 " " Eng. : Annual Report Cambridge Observatory 1913-14  
 13 U.S. : Howard Bulletin Nos. 570, 571  
 " " : Public. Allegheny Observatory, Vol III nos 15, 16  
 16 Eng. : Proc. Roy. Soc. Ser. A. Vol 90, No. 622, 623  
 Egypt : Bulletin Medical Obs. Helwan. No. 13.  
 17 Eng. : Nature Nov. 5  
 " : English Mechanic Nov. 6<sup>th</sup>  
 " : The Observatory, Nov. 1914 No. 480  
 India : Journal. Astron. Soc. India. May-July 1914  
 19 Can. : Public. Dominion Obs. - Ottawa Nos 9, 10, 11, 12, 13.  
 23 Eng. : Knowledge. Nov. 1914 Vol XI part 2  
 U.S. : Lick Bulletin No 263  
 " : Meteorology at Lick Obs. June 1914  
 26 Eng. : Nature Nov. 12<sup>th</sup>  
 " : English Mechanic Nov. 13<sup>th</sup>  
 27 U.S. : Monthly Weather Review. August 1914  
 Spain : Bull. Men. Soc. Astron. Barcelona. Vol 14 An. 5. Nov.  
 28 Philippine Is. : Annual Report Weather Bureau Manila 1912  
 " : Bulletin for May 1914

1914

# Publications Received.

Nov. 30 <sup>th</sup>	Eng:	Journal Brit. Astron. Ass <sup>n</sup> .	Vol <del>XXV</del> <u>XXVI</u> .	No. 1.	Oct. 1914
"	"	English Mechanic			Nov. 20 <sup>th</sup>
"	"	Nature			Nov. 19 <sup>th</sup>
		Canada & the Empire			24
		November from the United States			18
		" Other Countries			7
					<hr/>
					49

Dec. 1 <sup>st</sup>	U.S.:	Astrophysical Journal	Vol <u>XI</u> .	No. 4	Nov. 1914
"	"	Popular Astronomy	Vol <u>XXII</u> .	no. 10	Dec. 1914
"	Eng:	Bulletin, Hill Observatory, Sidmouth	Vol I	no. 1.	
3 <sup>rd</sup>	Can.:	Fifth Annual Report: Com. of Cons.			1914
"	U.S.:	Annals Harvard Coll. Obs.	Vol 71	nos 3, 76 nos 2, 3.	
"	"	Public. Astron Soc. Pomona Coll.	Vol III.	nos 3, 4	Index Vol. I.
5	"	" Astron Obs. Univer. of Penn.	Vol III.	part 2.	
7	"	Journal Franklin Institute			Dec. 1914, Vol. 178, no. 6.
10	Spain:	Boletín Mensual del Obs. del Ebro	Vol IV.	nos 10, 11	
12	U.S.:	Public. Lick Obsow.	Vol XII		
"	Eng:	Nature			Nov. 26 <sup>th</sup> 1914
"	"	English Mechanic			Nov. 27 <sup>th</sup> 1914
	Can.:	Monthly Weather Review			Sept. 1914
14	U.S.:	Harvard Bulletin	No 5.7.2.		
"	Eng:	Proc. Royal Society Ser. A	Vol 91	nos 624	
"	"	Geophysical Journal	3 <sup>rd</sup> Jan	Vol 11.	Nov. 1913

1914

# Publications Received.

- Dec. 15<sup>th</sup> U.S.: Lowell Observatory Bull. No 65.
- " Eng: Nature Dec. 3<sup>rd</sup> 1914
- 19 U.S.: Lick Observatory Bull. No. 264
- " Philipina Weather Bureau Bull. June, 1914
- 21 U.S.: Publ. Astron. Soc. of the Pacific Vol 26 no 156 Dec.
- " : Monthly Weather Review No 538. Supplement No 1.
- 23 Eng: Nature, Dec. 10<sup>th</sup>
- " : The Observatory, Dec. 1914 No. 481
- " : Monthly Notices R.A.S. LXXXV. No 1.
- " : English Mechanic. Dec. 4<sup>th</sup> & 11<sup>th</sup>
- " : Nautical Almanach for 1917
- ~~U.S.: Public Astron Soc. of the Pacific Vol 26 no 156~~
- 26 U.S.: Harvard College Circular No. 185
- Spain: Boletín Mensual del Obs. del Ebro Vol V no. 1; IV no 12.
- 28 U.S.: Monthly Weather Review Vol 42 no. 9. Sept. 1914
- " Philipina " Harmonic Formula of Fourier & Bessel etc.

	Canada & the Empire	13
December	U. S.	17
	Other Countries	4
		<hr/>
		34

1915

# Publications Received.

- Jan. 2<sup>nd</sup> U.S. Popular Astronomy. Vol. ~~XXIII~~ No. 1.  
4 " : Astrophysical Journal Vol. XL. No. 5. Dec. 1914  
" Eng. : English Mechanic & W. Dec. 18<sup>th</sup>  
" : Nature Dec. 17<sup>th</sup>  
" : Knowledge - December 1914  
6 S. Africa: Circular No. 19 Aug. 1914 Union Observatory  
11 U.S. : Journal. Franklin Institute, Vol. 179, No. 1, Jan.  
" Eng. : " Brit. Astron. Assoc. Nov. 1914 Vol. 25 no. 2.  
" Can. : Monthly Weather Review Dec. 1914 Vol. 38 no. 10  
12 Spain : Boletín Mensual. Soc. Astron. de Barcelona Dec. 1914 No. 15  
" Eng. : English Mechanic Dec. 25<sup>th</sup> 1914  
" Japan : The Astronomical Herald Vol. III no. 9. Dec. 1914  
15 " : Nature. Dec. 24, 31<sup>st</sup>  
" : English Mechanic. Jan. 1<sup>st</sup>  
18 U.S. : Proc. Amer. Philos. Soc. Vol. LIII. No. 215  
" : Pub. Astron. Soc. Pomona Cal. Vol. III No. 1  
" Eng. : Proc. Roy. Soc.; Ser. A. Vol. 91. No. 625.  
Philippine: Weather Bureau - Bull. July 1914  
S. Africa: Circular Nos. 20, 21. Union Obsers.  
19 " : English Mechanic Jan. 8<sup>th</sup> 1915  
" : Nature Jan. 7<sup>th</sup>  
" : The Observatory Jan. 1915. No. 483.  
" : " " Companion to. 1915 No. 482.

1915

Publications Received.

Jan. 21<sup>st</sup> U.S.: Contributions from Mt. Wilson Star Obs. Nos 90-92.  
 .. Can.: Roy. Soc. Can. Vol VIII. Sections 2, 3, 4.

List of Officers & Members 1914

22 U.S.: "The Earth & Sun as Magnets" by Dr. G. R. Hale.  
 .. : Reaction of the Planets upon the Sun by P. Puiseux.  
 .. : Recent Progress in Astrophysics by C. J. Abbott.  
 .. : Publ. of the Leander M. Conrich Obs. Vol II pt 4.

Italy: Mem. Soc. deg. Spettros. Fiat. Disp II Vol III Ser. 2<sup>a</sup>  
 26 Eng.: Astrographic Catalogue 1900 Greenwich Section

.. U.S.: Popular Astronomy Vol XXIII No. 2. February  
 .. : Report on Mars No. 7.

.. Spain: Soc. Astron. de Barcelona Anob Vol III no 46. Jan.

January	{	Published in Canada & the Empire	21
		.. " the United States	14
		.. " Other Countries	<u>6</u>
			39

Feb. 2<sup>nd</sup> U.S.: Astronomical Journal Vol 28, nos. 22-24  
 .. : Trans. Wisc. Acad. of Sc. Ar. & Sci. Vol 17, in 6 nos.

3<sup>rd</sup> Eng.: Mon. Not. R. A. S. Vol LXXV No 2. Dec. 1914  
 .. : Memoirs Brit. Astron. Assoc. Vol XX Pt 1

.. : Journal .. .. Vol XXV pt 3. Dec 1914  
 .. : English Mechanic. Jan. 22<sup>nd</sup>

5 Can.: Monthly Weather Review Vol. 1914  
 .. : Report Meteorological Service for 1914 in 2 pts.



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# Publications Received

- Feb 5<sup>th</sup> U.S. : Astrophysical Journal Vol ~~XVI~~. no. 1. Jan. 1915  
" " : Journal Franklin Institute. Vol 149. No 2. Feb. 1915  
8 Eng. : Nature. Jan. 21<sup>st</sup>  
" " : Knowledge. Jan. 1915.  
9 Japan : The Astronomical Herald Vol VII. 10 Jan. 1915  
" U.S. : Publ. Astron. Soc. Pomona Cal. Vol IV. no 2.  
13 Eng. : Geophysical Journal Dec. 1913.  
" " : Nature. Jan. 28<sup>th</sup>. 1915  
" " : English Mechanic. Jan. 29<sup>th</sup>  
" France : L'Astronomie. Sept. & Oct. 1914  
" Scotland : Proc. Roy. Soc. Edinburgh. Vol XXXIV. p. 3.  
" U.S. : Harvard Bulletin 573.  
15 " " : Contrib. Princeton Univer. Obs. No. 3.  
" " : Monthly Weather Review Vol. 42 no. 11. Oct/Nov 1914  
" Italy : Mem. Soc. Spectros. Dial., Disp 12<sup>a</sup>. Vol III. Ser 2<sup>a</sup>  
" Eng. : Proc. Roy. Soc.; Ser. A. Vol. 91. no 626.  
17 U.S. : Harvard Bulletin 574.  
" Eng. : Nature Feb. 4<sup>th</sup>  
" " : English Mechanic. Feb. 5<sup>th</sup>  
" " : The Observatory Feb. 1915  
20 U.S. : Harvard Bulletin no 575  
22 " " : " 576, 577.  
" " : Publ. Allegheny Observatory Vol III. No 17, 18.

1915

# Publications Received.

- Feb. U.S.: Harvard Bulletin No. 578  
 26 : Annual Report, Director Wm. Wilson Solar Obs.  
 Eng.: Nature, Feb. 11<sup>th</sup>  
 ..: English Mechanic, Feb. 12<sup>th</sup>  
 Spain: Boletini Mensual, Soc. Astron. Barcelona Amb 183, Feb.
- |          |   |                     |          |
|----------|---|---------------------|----------|
| February | { | Canada & the Empire | 19       |
|          |   | The United States   | 21       |
|          |   | Other Countries     | <u>4</u> |
|          |   | Total               | 44       |
- March U.S.: Popular Astronomy, Vol 23, no. 3, March.  
 ' ..: Publications Astron. Soc. Pacific, Vol 27, Feb. 1915  
 " ..: Proc. Amer. Acad. Arts & Sc. Vol 50 no 7, 8,  
 " ..: Reaction of the Planets upon the Sun, by P. Puisseuse  
 " ..: Bulletin Weather Bureau Manila, August 1914  
 " France: L'Astronomie, Nov. 1914  
 2 Eng.: Journal Brit. Astron. Assoc. Vol 25 no. 4  
 " : Monthly Notices, R.A.S. Vol ~~LXXXV~~ no 3,  
 " : Knowledge, Vol 38, no 559 Feb. 1915  
 Can.: Publications Dominion Obsrv. Vol. I. nos 14, 15, 16  
 4 Eng.: Nature, Feb. 15<sup>th</sup>  
 " : English Mechanic, Feb. 19<sup>th</sup>  
 U.S.: Harvard Bulletin, No. 579  
 8 " : Journal, Franklin Institute Vol. 179, No. 3.

1915

# Publications Received.

- Mar. 10<sup>th</sup> U.S.: Lick Observatory Bulletin, Nos. 265, 266, 267  
" : Monthly Weather Review, Vol 38, No. 12  
12 " : Publ. Unvers. Penn. Astron. Ser. Vol IV No. 1.  
15 " : Annual Report Director Harvard Coll Obs. 1914  
" : Lowell Bulletin No. 66  
" Eng.: Nature, Feb. 25<sup>th</sup> 1915.  
" U.S.: Lick Bulletin No 268  
" Eng.: Proc. Roy Soc. Ser. d. Vol 91. No A. 627.  
19 " : March 4<sup>th</sup> - Nature  
" : English Mechanic March 5<sup>th</sup>  
20 " : " " Feb. 26<sup>th</sup>  
" : Hill Observatory Bull. No II.  
" Can.: Trans. Roy. Soc of Can. Vol VIII. Ser III. Sed. 112, 3, 4.  
22 US.: Monthly Weather Review Vol 42 no 12.  
" : The Astronomical Journal Nos 673-674 Vol 29. 1-7  
" Eng.: The Observatory, March 1915.  
24 " : The English Mechanic Mar. 12<sup>th</sup>  
" : Nature, Mar. 11<sup>th</sup> 1915  
U.S.: Harvard Coll. Circular No. 187  
Switzerland: Astronomische Mitteilungen Nr. CV.  
25 Spain: Bol. Mensual. Soc. Astron. de B. March 1915.  
Italy: Mem. Soc. d. Spettros. Dial. Desp. 1<sup>o</sup> Ser. A. Vol IV.  
U.S.: Astronomical Journal. Vol 29. No. 4 7 Indices  
Vol 28.

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# Publications Received

- March U.S.: Popular Astronomy. Vol 23; no 4  
 " Africa: Union Obsor. Circular Nos. 22, 23. 1914 Dec 22.  
 " U.S.: Astrophysical Journal Vol. ~~XL~~ no 2. Mar 1915
- |       |   |                     |          |
|-------|---|---------------------|----------|
| March | { | Canada & the Empire | 17       |
|       |   | United States       | 24       |
|       |   | Other Countries     | <u>4</u> |
|       |   |                     | 45       |
- April 3 Denmark: Publ... Meddelelser fra Kopenhavns Observatorium 4620.  
 " Eng.: Nature Mar. 18<sup>th</sup>  
 " " : English Mechanic Mar. 19<sup>th</sup>  
 8 U.S.: Contributions from Mt. Wilson Sol. Obs. 93, 94, 95  
 " " : Journal, Franklin Inst. April 1915 Vol. 179. no 4.  
 " Eng.: Monthly Notices R.A.S. Vol 75. no 4. Feb. 1915  
 " " : Nature Mar. 25<sup>th</sup>  
 " " : English Mechanic, Mar 26<sup>th</sup>  
 " " : Knowledge March 1915  
 " Ireland: Roy. Dublin Soc. Economic Proc. Vol 2. nos 8-9  
 " " : Scientific .. Vol 14. nos 17-23.  
 9 Japan: Astron. Herald, Vol VII. pl 11, 12.  
 12 " : Lick Bulletin, No. 270  
 13 Eng.: Jour. Brit Astron. Assoc. Vol XXV. no. 5.  
 France: G. Astronomie. Dec. 1914. Index.  
 16 Spain: Boletin Mensual Obs. - Ebro. Vol V. nos. 2-5  
 " Eng.: English Mechanic. April 2<sup>nd</sup>. 1915

1915

# Publications Received.

- April 16 Eng: Proceedings - Royal Soc. Ser. A. Vol. 91, No. 628
- .. : Nature. April 1<sup>st</sup>
- .. U.S.: Publications. Ast. Soc. Pacific April 1915, No. 158
- 20 .. : Lick Bulletin 269, 271
- 21 Spain: Bol. Mensual. Es. Soc. de Car. de Catalunya Oct.-Dec. 1914
- .. Italy: Memorie Soc. de Spettros. Ital. disp. 2<sup>a</sup> Vol. IV. Ser. 2<sup>a</sup>
- .. France: L'Astronomie, Jan. 1915
- 22 Eng: English Mechanic April 9<sup>th</sup> 1915
- .. : Nature. April 8<sup>th</sup> 1915
- .. : The Observatory. April 1915
- 26 Africa: Union Observatory Circular No. 24 1915 Jan. 13
- .. U.S.: Communications. Nat. Acad. Sciences. Nos 1-4
- 28 Eng: Knowledge. April 1915
- .. : English Mechanic. April 16<sup>th</sup> 1915
- .. Can: Monthly Weather Review. Feb. 1915
- 29 .. : Nature. Ap. 15<sup>th</sup> & Index for Vol. 91.
- U.S. : Canada & the Empire 25
- .. United States 11
- .. Other Countries 12
- 48

- May 1<sup>st</sup> U.S.: Popular Astronomy. May 1915.
- .. : Bulletin. Weather Bureau. Philippines Is. Sep. 1914
- .. : Lowell Observatory Bull. No. 69

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# Publications Received.

- May 3<sup>rd</sup> Eng.: Nature, Ap. 22<sup>nd</sup> 1915
- "    "    English Mechanic Ap. 23<sup>rd</sup> 1915
- 4 U.S.: Publ. Astron. Soc. Pomona Coll., Vol IV. no. 3. April.
- 5 "    "    Astrophysical Journal, April 1915
- 6 Spain: Boletin Soc. Astron. de Barcelona, Vol III num 4-49
- 7 Surlana: Proc. Roy. Soc. Edin. Vol 35. pt. 1.
- "    "    Eng.: Monthly Notices, Vol 75 no. 5. Mar. 1915
- 8 U.S.: Journal, Franklin Institute Vol 179 no. 5. May.
- 9 "    "    Panama-Pac. Internat. Expor. Announcements.
- "    "    Eng.: Royal Societies Club. rules, members etc.
- 11 U.S.: Under. Cal. Publ. Lick. Obs. Vol IX.
- "    "    Eng.: Report. Brit. Assoc. Adv. of Sc. Annand M. 1914
- "    "    "    English Mechanic Ap. 30<sup>th</sup>
- "    "    "    Nature Ap. 29<sup>th</sup>
- "    "    U.S.: Trans. Wisconsin Acad. Vol XVIII. pt. 1-6 ~~1-6~~
- 14 France: L'Astronomie, Feb. Mar. 1915
- "    "    U.S.: Philippine Is. Weather Bureau. Bull. Oct. 1914
- 17 Eng.: Proc. Royal Soc.; Ser. A. Vol. 9. No. 629
- "    "    "    English Mechanic, May 7<sup>th</sup>
- "    "    "    Nature May. 6<sup>th</sup>
- "    "    U.S.: Harvard Coll. Bulletin No. 580
- 20 "    "    "    "    "    "    No. 581
- "    "    Eng.: The Observatory May. 1915

# Publications Received.

1915

- May 22 U.S.: Harvard Bulletin No. 582  
 .. " : Annual Report, John Grear Lib. 1914  
 .. " : Monthly Weather Review Vol. 13 no. 2  
 26 .. : Astronomical Journal, Vol. 29, no. 5 no. 677  
 .. " : Harvard Bulletin 583,  
 27 .. : Annals, Astron. Obs. Harvard Coll. ~~II~~ pt. 1, ~~XV~~ 1, 2; ~~XX~~ 1, 2  
 .. Can.: The National Domain in Canada. 1915  
 .. Denmark: Publik. og mindre Meddelelser, fra København Obs. No. 21  
 .. Australia Proc. Roy. Soc. of Queensland, Vol. ~~XVI~~ 2<sup>nd</sup> ser.  
 28 Egypt: Helwan Observatory Bulletin No. 15.  
 Italy: Memorie Soc. Spettro. Ital. disp. 3. Vol. ~~VII~~ 2<sup>nd</sup> ser.  
 31 Eng.: Knowledge, May 1915  
 .. : English Mechanic, May 14<sup>th</sup> 1915  
 .. : Monthly Notices, Vol. 45, no. 6 April 1915

Published in Canada & the Empire	16
The United States	18
Other Countries	5
	39

- June 1<sup>st</sup> Eng.: Nature, May 13<sup>th</sup> 1915  
 .. Spain: Boletín Mensual, Soc. Astron. de Barcelona <sup>m 5-50</sup> Vol. III  
 .. U.S.: Popular Astronomy, June-July 1915  
 Italy: Neuer Katalog farbiger Sterne: Spectra Ast. Vaticana <sup>III</sup>  
 .. : Catálogo Astrológico 1900.0 Vol. I. + 64° 1914

1915

Publications Received.

- 2 Eng.: Journal Brit. Astron. Assoc. Vol. 25. no 6.
- .. : Nature, May 20<sup>th</sup>
- .. : English Mechanic, May 21<sup>st</sup>
- 3 Can.: Trans. Roy. Can. Inst. May 1915, Vol. 21. 2
- 7 U.S.: Proc. Amer. Acad. Arts & Sciences Vol. 41. nos 9, 10.
- .. : Jour. Franklin Inst. Vol. 179. no 6 June 1915
- .. : Monthly Weather Review Vol. 43 no 3 March 1915
- 8 Spain: Bol. Real Sociedad Espanola de Historia Nat.  
(El terremoto Italiano del 15 de Enero de <sup>April 1915</sup> 1915)
- .. : Eng. English Mechanic, May 28<sup>th</sup>
- .. : Nature May 29<sup>th</sup>
- 10 U.S.: Bulletin, Weather Bureau, Phil. Is. Nov. 1914
- Can.: Monthly Weather Review, March 1915
- Japan: Astronomical Herald, Vol. VII. nos 1, 2.
- 14 U.S.: Astrophysical Journal, Vol. XLII. no 4. May 15
- Spain: Bol. Mensual del Obs. del Ebro. Vol. V. nos 7, 8.
- U.S.: Conts. Mount Wilson Solar Obs. No. 96
- .. : Communication to the Nat. Acad. of Science. nos. 7, 8.
- France: L'Astronomie, April 1915, & May.
- 15 Eng.: English Mechanic, June 4<sup>th</sup> 1915
- .. : Nature June 3<sup>rd</sup> 1915
- .. : The Observatory June 1915
- .. : Proc. Roy. Soc. London Ser. A, Vol. 91. no. 630



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# Publications Received.

- June 18<sup>th</sup> U.S. : Publ. Astron. Soc Pacific, Vol. 27 no. 159.
- 20 Eng. : Nature June 10<sup>th</sup>
- 21 .. : English Mechanic June 11<sup>th</sup>
- 22 U.S. : Harvard Bulletin No. 584.
- 26 " : " College Observatory, Annals, Vol. 77
- .. : " : The Astronomical Observatory by R. C. Pickering
- .. : " : The Work of the " by J. O. M.
- 28 .. : Proc. Amer. Philos. Soc. J. Vol. 53, no. 216 Jan-April
- .. : Annals, New York Acad. Sciences Vol. 24. ~~pp. 1-276~~
- .. : Proc. Amer. Acad. of Arts & Sciences Vol. 50 no. 11.
- Eng. : Memoirs, Brit. Astron. Assoc. Vol. 16 pt. 3. (back num)
- 29 .. : Nature June 17<sup>th</sup> 1915
- .. : Knowledge June 1915
- .. : English Mechanic - June 18<sup>th</sup>
- 30 .. : Report British Assoc. Adv. of Sc. 1914, Australia
- .. : The Antiquity of Iron. by G. F. Jenner

Published in Canada & the Empire	20
United States	18
Other Countries	11
	49

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## Publications Received

- July 5<sup>th</sup> Jamaica: Meteorology of the Moon, by W.H. Pickering  
 U.S.: Lick Obs. Bull. No. 242  
 Monthly Weather Review V. 43 no 4  
 Journal Franklin Inst. V. 180. no 1.  
 Weather Bureau Bull. Manila Dec. 1914  
 Eng.: Nature, June 24<sup>th</sup>  
 Journal British Astron. Assoc. Vol. 25 no. 7  
 6 English Mechanic June 25<sup>th</sup>  
 8 France: Observations au Cercle Méridien en 1913. Tome XIII.  
 Catalogue de 13532 Étoiles (d'Abbadia) 1914  
 Can.: Monthly Weather Review Vol. 39, no 4.  
 Univ. of Toronto, Papers, Chemical Lab. 101-107  
 France: Bull. Commission Meteorologique Tome 3. Toulouse  
 Japan: Astronomical Herald, Vol. 8, no. 3, June 1915  
 9 Spain: Boletín Mensual, Soc. Astron de Barcelona June/July 15  
 Eng.: Monthly Notices R.A.S. Vol. 75, no 7. May 1915  
 Can.: Annuaire de l'Université Laval, Québec. 1915-16  
 12 U.S.: Publ. Astron. Observ. Univ. Michigan. V. 1 pp 73-206  
 France: L'Astronomie, June 1915  
 14 Eng.: English Mechanic July 2<sup>nd</sup>  
 19 Proc. Royal Society Ser. A. Vol. 101. no A. 631  
 U.S.: The Astronomical Journal Vol. 29 no. 6. no 678  
 20 Italy: Memorie Soc. Spettroscopisti. Liali. Mar-Apr. 1915

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# Publications Received.

- July 20 Eng: English Mechanic July 9<sup>th</sup> 1915
- "    "    Nature July 8<sup>th</sup>
- "    "    The Observatory July 1915 No. 489
- 22 U.S.: Unvers. of Cincinnati Studies Ser. 2 Vol 8 pt 1
- France: Annales de l'Observ. d'Astron. Phys. N. T. III part 1.
- 23 U.S.: Popular Astronomy Vol. 23, no 7. Aug-Sept.
- 26 "    "    Astrophysical Journal, Vol 41, pp. 334-410. June
- Switzerland: Separat. Abdruck aus der "Meteor. Zeitschrift" Sept. 5, 1915
- Copenhagen: Publikationer og mindre Meddelelser fra Kgl. Obs. no 22
- Can.: Conservation of life Vol 1. no 4
- 27 Eng.: Nature July 15<sup>th</sup>
- "    "    English Mechanic. July 16<sup>th</sup>
- "    "    Geophysical Journal 1915 Index
- 28 U.S.: Form & Constitution of the Earth. Prof. F. B. Stewart
- "    "    Logarithms apropos to their Tercentary. M. S. Duggan
- "    "    Radiation of the Sun. P. G. Abbott
- "    "    Modern Theories of the Sun by Jean Bossler
- Journal, Brit. Astron. Assoc. June Vol 25 no 8.

Published in Canada & the Empire 23

United States 14

Other Countries 10

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# Publications Received.

- August U.S.: Monthly Weather Review May 1915
- .. : Journal Franklin Institute August 1915
- .. : Astrophysical Journal, Vol. 42, no. 1, July
- Phil. Soc.: Weather Bureau, Bulletin January 1915
- U.S.: .. Annual Report 1915
- .. : Public Astron. Soc. Pomona Cal. Vol. 4, no. 1, July
- .. : Terrestrial Magnetism etc. Vol. 20, nos 1, 2, Mar, Apr
- .. : Proc. Amer. Acad. Arts & Sciences, Vol. 50 nos 12, 13; <sup>51</sup> no. 1
- .. : National Acad. of Sciences, Proc. Vol. 1, nos 1-8
- .. : Proc. Amer. Philos. Soc. Vol. 54 nos 217-18
- .. : Annals N.Y. Acad. of Sciences, Vol. 26, nos 1-214(4)
- Mauritius Royal Alfred Observatory, Annual Report 1913.
- India: .. Results of Observations Vol. 1, pt 1, 2.
- .. : Journal, Astron. Soc. India Vol. 5, nos 1, 2, Nov, Dec. 1914
- France: L'Astronomie July 1915
- Eng: Memoirs, Roy. Astron. Soc. Vol. 60, pts 5, 6.
- .. : .. General Index, 1871-1915
- .. : Solar Physics Observation Cambridge, Ann. Report 1914-15
- .. : Monthly Notices, R.A.S. Vol. 45, no 8, June
- .. : Proc. Royal Society Ser. A, Vol. 91, no. 632
- .. : Astrophysical Journal, Jan. 1914 Introduction
- .. : Nature, July 22, 29, Aug. 5, 12, 19
- .. : English Mechanic, July 23, 30, Aug 6, 13, 20
- .. : The Observatory, August 1915

23  
21  
45

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Publications Received

- Sept. Can: Monthly Weather Review Mar 1915  
" : Public. Dominion Observatory, Vol. 2, nos. 1-3.  
U. S.: Contrib. Mount W. Sl. Obs. nos 97, 98, 99,  
: Commun. to Nat. Acad. of Sciences nos 9, 10, 11.  
" : Astron. Soc. Pacific, June 1915  
3 " : Monthly Weather Review V. 43, no 6 June  
" : " " " Supplement No. 2.  
7 " : Journal Franklin Institute September 1915  
Japan: Astronomical Herald V. 8 nos 4, 5 July-Aug.  
Eng : Nature Aug 26<sup>th</sup>  
" : English Mechanic Aug 29<sup>th</sup>  
" : Memorie. Soc. Spectros. Ital. Vol. IV disp 6 June  
" : L'eclissi Totale de Sole. Agosto 1914  
Eng : Geophysical Journal February 1914  
" : Royal Astron. Soc. List of Fellows & Ass. June 1915  
Spain: Boletin Mensual. Estac. Seism. Cartaya nos 4-5. 4<sup>th</sup> M.  
8 U. S.: Proc. Amer. Acad. Arts & Scien. Vol. 50, no 4  
" : Public. Astron. Soc. Pacific. Vol. 27, no 160  
France: L'Astronomie, August 1915  
US : Harvard Bulletin No. 586  
11 Eng : Photographic Magnitudes of Stars ... Greenwich  
: Greenwich Astronomical Results 1913  
S. Africa: Annals of the Cape Observatory Vol. XII, part 1

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# Publications Received

- Sept. 11 S. Africa: Cape Meridian Observations 1925-8
- "          Astrographic Zones Vol. 2. Co-ordinates.
- Phil. &: Bulletin Weather Bureau Feb. 1915
- 13 U.S.: Harvard Bulletin No. 587
- 22 Eng.: Journal Brit. Astron. Assoc. Vol. 25 no 8 June
- "          Memoirs " " " Vol. 20 p. 24
- "          List of Members " " " Sept. 1915
- "          Gazette Astronomique Nos. 82-3 1914 nos. 9, 10
- U.S.: Proc. Amer. Philos. Soc. Vol. 54 no 219 Sept. 1915
- 22 Eng.: English Mechanic V. CII no 2673 Sept. 10<sup>th</sup>
- Toronto: Calendar, University of Toronto 1915-16
- "      "      "      Victoria "      "
- 23 Ind.: The Determination of Easter Day, by A. M. W. Downing
- U.S.: Great Nebulose Region near Omicron Persei.
- "      Proc. Nat. Acad. of Sciences. Vol. 1. no. 9.
- Japan: Note on the Method to find the Periods of a
- "      Periodic Function from Aquidistant Observations.
- 24 U.S.: Harvard Bulletin No. 588, No. 589
- Italy: Memorie della Soc. Spettros. Ital. disp. 7. Vol. 4. 2<sup>a</sup> s.
- 25 Ottawa: Transactions - Roy. Soc. of Can. Vol. IX.
- U.S.: Harvard Bulletin No. 590.
- 28 Can.: Public. Dom. Obsorv. Ottawa Vol. II nos 4, 5, 6
- Eng.: English Mechanic Sept. 17<sup>th</sup>

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 24  
 55

# Publications Received.

1915

- Sept. Can. : Weather Review, June 1915
- Oct. Eng. : Nature Sept. 9, 16.
- U.S. : Popular Astronomy, Oct. 1915
- 5 " : Monthly Weather Review Vol. 43. no 7.
- " Eng. : Nature Sept. 23<sup>rd</sup>
- " " : Eng. Mechanic. Sept. 24<sup>th</sup>
- " " : Circular No. 25. S. Africa.
- U.S. : Publication, Astron. Soc. Pacific. Vol 27. no 160 Aug<sup>ca</sup>
- 8 Eng. : Geophysical Journal, March 1914
- U.S. : Journal, Franklin Inst. Vol 180. No 4, October
- Spain : Boletin Mensual Obs. del Ebro. Vol. V nos 8, 9, 10, 11
- 15 U.S. : Publication, Astron. & Atmosph. Soc. of A. Vol. 2.
- " " : Annals, Harvard Vol 76 nos 4-9. 73. pt. 2.
- " " : " " Vol 80, no 1. Index to dates
- " " : The Henry Draper Memorial, Reprint.
- " Ireland : Proc. R. Irish Academy. Vol 39. Sect. A nos 5-7
- " France : L'Astronomie Sept. 1915
- 16 Phil. Tr. : Weather Bureau, Bull. March, 1915
- 18 Eng. : Leeds Astron. Soc. Journal & Trans. 1914
- " " : Proc. Roy. Soc. Ser. A. Vol 92. No A. 634
- " " : Cambridge Obs. Annual Rep. 1914-15
- 21 U.S. : Commun. Nat. Acad. of Sc. Nos. 12-17
- " " : Contrib. Mont. W. Star Obs. Nos 100-103

## Publications Received.

1915

- |        |           |                                  |                            |
|--------|-----------|----------------------------------|----------------------------|
| Oct 21 | U.S.      | : Proc. Amer. Acad. Arts & Sc.   | Vol. 51 no. 3.             |
| 22     | ..        | : Astronomical Journal           | Nos. 679-680 V. 29 nos 7-8 |
| ..     | ..        | : Proc. Nat. Acad. Sciences.     | Vol. 1, no 10 (Oct)        |
| ..     | ..        | : Astroph. Jour.                 | Vol. 42 no 3.              |
| 23     | Eng       | : Nature                         | Oct 7 <sup>th</sup>        |
| ..     | ..        | : English Mechanic               | Oct 8 <sup>th</sup> 1915   |
|        | Scotland: | Proc. Roy Soc. Edinburgh.        | V. 35, pt. 2.              |
| 25     | Eng.      | : The Observatory.               | No. 492. Oct. 1915         |
|        | S. Africa | : S. African Journal of Science. | Vol. 11 no 10. July.       |
| ..     | U.S.      | : Harvard Circular               | 188.                       |
| 28     | Eng       | : Nature.                        | Oct. 14 <sup>th</sup>      |
|        | ..        | : English Mechanic.              | Oct. 15 <sup>th</sup>      |
|        | Can.      | : Monthly Weather Review         | July 1915 V. 39 no 7.      |
|        | Spain     | : Congreso de Madrid             |                            |
|        | S. Africa | : Union Observatory Circular     | Nos 26, 27                 |
|        | Eng       | : The Empire                     | 90                         |
|        |           | U.S.                             | 25                         |
|        |           | Other Countries                  | 3                          |
|        |           |                                  | 48                         |

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| Nov. 1 <sup>st</sup> | Eng. | : The Hill Obs. Bull.  | no 3. Vol. 1 no 3.          |
|                      | Can. | : Com. of Conservation | 6 <sup>th</sup> An. Report. |
| 3                    | Eng. | : Nature               | Oct. 21 <sup>st</sup> .     |
| ..                   | ..   | : English Mechanic     | Oct 22 <sup>nd</sup> .      |



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# Publications Received.

- Nov. 3<sup>rd</sup> Eng. Weather Bulletin, Phil. Is. April 1915  
Japan: Astronomical Herald. Vol. 8, no. 6.  
U.S.: Popular Astronomy Vol. 23, no 9, Nov.  
4 " : Lick Bulletin No 273.  
" : Monthly Weather Review V. 43 no 8 : Aug. 15  
8 Eng. : Nature Vol. 28<sup>th</sup>  
" : English Mechanic. Oct. 29<sup>th</sup>  
" : Jour. Brit. Astron. Assoc. V. 25. no 9  
U.S. : Terrestrial Magnetism & Atmospheric El. V. 20 no 3  
Spain: Boletin. Soc. Astron. de Barcelona V. 3. no 8-53  
Eng. : Monthly Notices. Vol. 75, no 9. Oct 1915  
U.S. : Report on Mars. No. 10 by W. H. Pickering  
13 " : Journal. Franklin Institute, V. 180. No. 5. Nov.  
1 " Eng. : The Observatory, Nov. 1915 No. 493  
" France : L'Astronomie October 1915  
16 Eng. : Proc. Royal Society Ser. A. Vol. 92. no. 635  
" : Nature Nov. 4<sup>th</sup>  
" : English Mechanic.. Nov. 5<sup>th</sup>  
20 " : Geophysical Journal, April 1914  
Italy: Mem. Soc. Spettros. Ital. Disp. 8<sup>a</sup>. V. 4 Ser 2<sup>a</sup>.  
U.S. : Proc. Nat. Acad. Sciences. Vol. 1, no. 11  
22 " : ~~Bull. Amer. Geog. Soc.~~  
Can. : Publ. Dominion Obs. Ottawa V. 2 nos. 7, 8, 9.

1915

# Publications Received.

Nov. 23 U.S.: Proc. Amer. Acad. Arts & Sc. Vol. 51 no. 4<sup>th</sup> Nov. 1915  
 S. Africa: Circular No. 28, 1915. Sept. 3.  
 Eng.: Nature Nov. 11<sup>th</sup>  
 ..: English Mechanic. Nov. 12<sup>th</sup>

26 Can.: Monthly Weather Review Aug. 1915, V. 39, no. 8.

29 Mexico: Anuario, Obs. Astron. Nacion. de Toluca An. 35.

U.S.: Harvard Bulletin, 591

..: Astronomical Journal No 651

30 Eng: Jour. Brit Astron. Soc. Vol 26, no. 1.

Mauritius: Results of Magn. Meteor. Season. Obs. V. 1 pts 3-7

Eng.: English Mechanic. Nov. 19<sup>th</sup>

..: Canada & the Empire 20

The United States 13

Other Countries 6  
39

Dec. Eng.: Nautical Almanach etc for 1918

1 ..: English Mechanic. Nov. 19<sup>th</sup>

2 ..: Nature, Nov. 18<sup>th</sup>

.. Italy: Memorie, Soc. Spettros. Italiane Disp 9, Vol 4, no. 2.

.. U.S.: Astrophysical Journal. Vol. 42 no 4 Nov. 15

.. Spain: Boletin Mensual, Estac. Sism. de Carliya. July 1915

.. U.S.: Popular Astronomy. Vol. 23, no 10 Dec.

4 ..: Monthly Weather Review Vol 43, no 9. Sept: 15

6 ..: Annals, New York Acad. Sciences. Vol 26, pp 315-392

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Publications Received.

- Dec. 6<sup>th</sup> U.S.: Smithsonian Misc. Coll. S. 65 nos. 11, 12, 13
- .. : John Greer Library, list of Books of Industry
- .. : Publ. Cincinnati Obs. No. 14. Part. 1.
- .. : Univers. " " Studia. Ser. 2. Vol 10, pt. 1.
- .. : Lick Observatory Bull. Nos. 274, 275
- 9 Eng: Nature. Nov. 25<sup>th</sup>
- .. : English Mechanic. Nov. 26<sup>th</sup>
- .. S. Africa: Circular No. 29. 1915, Sept. 14
- .. : Contr. Mnt. U. Solar Obs. Nos. 104, 105, 106, 107
- 10 U.S.: Harvard Bulletin 592, 593
- Phil. Is.: Weather Bureau, Bulletin for May 1915
- Spain: Soc. Astron. de Barcelona. An. C. Vol. III. Nov. 1915
- 11 U.S.: Harvard Bulletin No. 594
- .. : Report on Mars No. 11
- .. : Journal Franklin Inst. Dec. 1915
- 15 .. : Harvard Bulletin 595
- .. Eng.: English Mechanic. Dec. 3<sup>rd</sup>.
- .. : Nature. Dec. 2<sup>nd</sup>.
- .. : Proc. the Royal Society. Ser. A. Vol 92, no. 636
- .. Japan: The Astronomical Herald. V. 8 no. 8 Nov. 1915
- .. Ireland: Roy. Dublin Soc.: Scin Proc. Vol 14 nos 24-41
- .. : " " " " Econ. Proc. Vol 2 no 16
- 17 Can: Roy. Soc. Can: Trans. Ser. III. V. 9. Sec. 1-4.

1915

Publications Received.

- Dec. 17<sup>th</sup> Can.: General Index, Transactions Canadian Institute.  
 21 U.S.: Proc. Nat. Acad. Scin. Vol. I no 12, Dec. 1915  
 " : Proc. Amer. Acad. Arts & Sc. Vol. 51 nos. 7-9  
 " : Public. Astron. Soc. Pacific. Vol. 27. no 161 Dec. 1915  
 Mauritius: Results, Magn. Meteorol. & Seis. Observ. Aug. 1915  
 28 Eng.: English Mechanic. Dec. 15, 17.  
 " : Nature. Dec. 9, 16.  
 " : The Observatory Dec. 1915 & Companion 1916.  
 France: L'Astronomie Nov. 1915.  
 Can.: Monthly Weather Review Sept. 1915 Vol. 39 no 9.  
 Mauritius Annual Report. Royal Alfred Observ. 1914  
 U.S.: Lowell Bulletin No 68. Vol. 11 no 18.  
 31 Italy: Memorie Societa d. Spettros. Ital. Disp. 10<sup>a</sup> Vol. 4 Ser. 2<sup>a</sup> Ed.  
 U.S.: Popular Astronomy. Vol. 24 no 1. Jan. 1916  
 " : Astroph. Jour. Vol. 42. no 5. December 1915

Published in Canada & the Empire	35
... The United States	26
... Other Countries	5
	66

1916

Publications Received.

- Jan. 2<sup>nd</sup> S. Africa: Circular No. 30 1915 Oct. 12<sup>th</sup>
- Spain: Boletín Mensual, Soc. Astrón. de Barcelona Ab. VII, Dec.
- 6 U.S.: Memoirs of Lowell Observatory Vol I no. 1.
- ..: Harvard Bulletin 596, 597
- ..: Monthly Weather Review Vol 23 no. 10, Oct. 1915
- 11 Eng: Monthly Notices, R.A.S. Vol ~~LXXVI~~ no. 1. Nov. 1915
- ..: Journal Brit. Astron. Assoc. Vol 26 no. 2
- ..: Nature, Dec. 29, 30
- ..: English Mechanic, Dec. 24, 31
- .. Egypt: Helwan. Observatory, Bull. no 16
- 13 U.S.: Memoirs of the Lowell Observatory Vol I. nos I, II.
- ..: Journal Franklin Institute Vol 181. no. 1. Jan. 1916
- 14 ..: Terras. Magn. & Atmos. Elect. Dec. 1915 Vol 20 no 4
- ..: Public. Allegheny Obsrv. Vol I no. 19-21
- ..: Harvard Annals Vol 79. no 10. Vol 80. nos 2-3.
- 17 ..: Lick Bulletin No. 276
- Eng: Proc. Royal Society, Ser. A. Vol. 92. no. A. 637
- Can: Report Meteorological Service of Can. Vol I-II.
- U.S.: Lowell Bulletin, No. 69.
- 18 Eng: Hill Observatory Bulletin No. 4 Vol I, no. 4
- ..: Geophysical Journal, July 1914
- 19 ..: English Mechanic, Jan. 7.
- ..: Nature, Jan 6<sup>th</sup>

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- Jan. 24 Eng: The Observatory. Jan. 1916 No 496.
  - Japan: Journal, College of Science Tokyo Vol 37. Art. 3.
  - U.S.: Proc. National Academy of Sciences. Vol 2. no. 1. Jan.
  - France: L'Astronomie, Dec 1915.
  - U.S.: Weather Bulletin for June 1915, Phil. Is.
  - U.S.: Paper Amer. Acad. Arts & Sc. Vol. 51, no. 10. Jan. 16
  - 26 " : Lowell Bulletin No. 70.
  - Can.: Monthly Weather Review Oct. 1915. V. 99 no. 10
  - 29 U.S.: The American Ephemeris & Nautical Almanac. 1915
  - 31 U.S.: Popular Astronomy, Feb. 1916.
  - Eng: Nature Jan. 13<sup>th</sup> 1916
  - Eng: English Mechanic, Jan. 14<sup>th</sup> 1916
  - U.S.: Monthly Weather Review. Nov-1915.
- |                     |    |
|---------------------|----|
| Canada & the Empire | 15 |
| United States       | 24 |
| Other Countries     | 11 |

- Feb. 2<sup>nd</sup> S. Africa: Union Observatory, Circular nos 31, 32.
- Eng: Geophysical Journal August 1914
- " : Nature Jan. 20<sup>th</sup> 1916
- " : English Mechanic Jan. 21<sup>st</sup>
- Scotland: Proc Royal Soc. Edinburgh. Vol 35 pt. 3.
- Egypt: Helwan Observatory Bull. no. 17
- Can.: Proc & Trans. Nova Scotian Inst. of Science. V. 13 pt. 3, 4
- V. 14, pt. 1.

# Publications Received.

- Feb. 5<sup>th</sup> U.S.: Astronomical Journal. Vol 29. no 10  
 ✓ .. : Lowell Bulletin No. 71  
 S. Africa: South African Journal of Science, Pretoria 1915 <sup>President's address</sup>  
 11 U.S.: Lowell Bulletin No. 72  
 .. : Journal. Franklin Institute Feb. 1916  
 .. Spain: Sociedad Astron. de Barcelona. An 7 V. 3, Jan. 1916  
 .. Eng.: Brit. Assoc. for Advancement of Science. Report of the  
 .. : Comm. Soc. Committee. Conf. of Delegates Manchester. 1915  
 .. Italy: Memorie Soc. d. spettros. Ital. Nov. 1915  
 .. Mexico: Anuario Obs. Astron. Nac. de Tacubaya 1916 A.P.  
 ✓ Can: Publ. Dominion Observatory. Vol 2. nos 12-14  
 12 Eng: Nature, Jan. 27<sup>th</sup> 1916  
 .. : Geophysical Journal, Sept. 1914  
 .. : English Mechanic. Jan. 28<sup>th</sup> 1916  
 Italy: Memorie della Societa degli Spettroscopisti  
 .. : Italiani Ser 2<sup>a</sup> Vol 4. Dec. 1915  
 Japan: The Astronomical Herald. Vol VIII. no 9, 10.  
 U.S.: Harvard Bulletin 598.  
 15 France: Annuaire Astronomique et M. 1916  
 U.S.: Harvard Bulletin 599  
 .. : Astronomical Journal No. 682 from Prof. P. P. Bernard  
 Eng.: Proc. Royal Soc. Ser. A, Vol 92, no 638.  
 ✓ .. : Journal. Brit. Astron. Assoc. V. 26, no 3, Dec.

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# Publications Received.

- Feb. 17 Eng.: English Mechanic, Feb. 4<sup>th</sup> 1916  
 .. Monthly Notices, R.A.S. Dec. 1915 V.76, no. 2.  
 France; L' Astronomie, Jan. 1916  
 21 U.S.: Reports on Mars, No 12. Index etc 1-10 (1)  
 .. Publ. Astron. Soc Pacific. Feb. 1916, Vol. 28, no. 162  
 22 .. The Observatory, Feb. 1916 No 497.  
 24 India: Monthly Notices Society of India - Jan. 1916  
 .. Eng.: English Mechanic. Feb. 11<sup>th</sup>  
 .. Nature, Feb. 9, 10<sup>th</sup>  
 28 Can.: Trans. Roy Soc. of Canada Ser. 3 Vol. 28, Sect. 1-4  
 28 .. Report of Preliminary Confer. Civic Improvement League  
 Eng.: Journal. Brit Astron. Assoc. Jan. 1916, Vol 26, no. 4  
 U.S.: Monthly Weather Review, Dec. 1915. Vol. 43, no. 12.  
 .. Published in Canada & the Empire 30  
 .. The United States 11  
 .. Other Countries 8  


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- Mar. 1<sup>st</sup> U.S.: Popular Astronomy March 1916 Vol 24 no. 3.  
 3 .. Harvard Bulletin No 600  
 .. Publ. Astron. Soc. Pomona College Vol. V. no. 1. Oct.  
 .. Proc. Amer. Philos. Soc. Vol. LV. no 220. Oct-Dec. 6  
 6 .. Contr. Min. Wilson. Solar Obs. Index. & Contents Vol. V.  
 .. " " " " " No. 105. Annual Report 1915.  
 .. Smiths. Miscell. Coll. Vol. 65, no. 9



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- Mar. 6<sup>th</sup> U.S. : Comm. Nat. Acad. Sc. No. 18, No 19  
 Can. : Discovery of phosphate of lime in Rocky Mts. 1915
- 7 U.S. : Astrophysical Journal. Vol. 43 no. 1. Jan. 1916  
 .. : Harvard Bulletin No. 601, 602
- 10 Eng. : Monthly Notices R.A.S. Vol 76 no 3. Jan. 1916  
 .. : Nature Feb. 17, 24<sup>th</sup>  
 Fran. : Bulletin Mensual. Soc. Astron. de Barcelone, Feb. 16  
 .. : Geophysical Journal. Nov. 1914  
 .. : English Mechanic. Feb. 18. 25  
 .. : Annual Solar Physics Obs. Cambridge. Vol III pt. 1.
- Can. : Conservation of life. Vol II no 2.  
 .. : Monthly Weather Review Nov. 1915 Vol 39, no 11  
 U.S. : Annual Report Weather Bureau Manila, 1915  
 Bulletin for July. 1915
- 13 Fran. : L'Astronomie. Février 1916
- 14, 15 U.S. : Harvard Bulletin 603, 604, 605  
 Peru : Bulletin Soc. Geog. de Lima T. 30, Tril. 1-2. T. 31, 1, 2.
- 16 U.S. : Astronomical Journal Nos 683-4, 685,  
 .. : Journal Franklin Institute Vol. 181 no 3, March 16  
 Eng. : English Mechanic. Mar. 3. 1916  
 .. : Proc. Royal Society Ser. A. Vol 92, no A. 639.  
 .. : Nature. March 2.
- Mauritius Results of Mag. Meteor. Seism. Observ. Sept.-Oct. 1915

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- Mar. 18<sup>th</sup> Japan: The Astronomical Herald, Feb. 1916, Vol 8, no 11  
 Can.: Publ. Dominion Observatory, Vol III, no 2.
- 20 Eng.: The Observatory, March 1916, no 498.
- 22 ..: English Mechanic " 10<sup>th</sup>
- .. ..: Nature " 9<sup>th</sup>
- .. Spain: Boletín Mensual, Estac. Surin. de Cartuja Dec. 1915
- .. Romani: Bulletin. Sect. Scien. de l'Acad. Roumaine Feb. 1916
- .. Italy: Mem. Soc. degli Spettros. Ital. Gennaio 1916
- 24 U.S.: Proc. Nat. Acad. Sciences, Vol II no 3.
- .. ..: Report on Mars, Nos. 14, 13.
- .. ..: Public. Astron. Soc. Pomona Coll. Vol V no 2, Jan.
- 28 Belgium: Gazette Astronomique, No 84 1914 No. 11
- U.S.: Lick Bulletin Nos. 277-280
- ..: Weather Bulletin, Manila, August 1915
- ..: Annual Report " for the year 1914
- Can.: "Upper Air Investigation in Canada" 1915
- 30 Eng.: English Mechanic, March 17
- ..: Nature, March 16<sup>th</sup>
- 31 U.S.: Popular Astronomy, April 1916 Vol 24 no 4.
- ..: Astronomical Journal Nos 686-687.
- ..: Canada & the Empire - 19
- ..: The United States - 32
- ..: Other Countries - 8
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1916  
April 14

- U.S. : Publications of Carnegie Institute of W. March, 1916
- Can. : Monthly Weather Review Vol 39, no 12, Dec.
- 3 U.S. : Terr. Magn. & Atmos. Elect. March 1916 V. 21, no 1
- 5 Eng. : Journal, British Astron. Assoc. Feb. 1916, Vol 26 no 5.
- 6 Span. : Sociedad Astronom. de Barcelona, V. II no 7, March.
- Can. : Transactions, Royal Society of C. March, 1916 Ser. 3 V. 9.
- : " " " " Sect. 102 " " Sect. 394
- 7 U.S. : Monthly Weather Review V. 44, no 1, Jan. 1916
- : Astrophysical Journal, Vol 43, no 2, March.
- : France: L. Astronomi Mar. 1916
- : Can. : Publ. Dom. Obs. Vol 2, no 15, Vol 3, nos. 1-5
- 13 Japan: The Astronomical Herald, Vol VIII, no. 12, March 1916
- 15 India: Monthly Notices, Astron. Soc. India, March 1916
- : U.S. : Proc. Nat. Acad. Sciences, Vol II, no 4, April
- : Eng. : Monthly Notices, R.A.S. Vol 76, no 4, Feb. 1916
- : " : English Mechanic, March 24.
- 17 " : Proc. Roy. Soc. Ser A, Vol 92, No A. 640
- : " : English Mechanic, Mar. 31<sup>st</sup>, 1916
- : " : Nature, Mar. 23<sup>rd</sup>, 30<sup>th</sup>
- : U.S. : Journal, Franklin Institute Vol 181, no 4, April.
- : Mauritius Royal Alfred Observ. Vol I pt. 11, 12.
- 18 U.S. : Astronomical Journal, No. 88, Vol 29, no 16
- 19 " : Publ. Astron. Soc. Pacific, Vol ~~XXVIII~~, no 163, April

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- 1916
- April 22<sup>nd</sup> Mexico: Mem. Soc. Scien. "Antonio Aguado" T. 32 nos 11, 12  
 " Dialy: Mem. Soc. degli Spettros. Dial. Disp 2<sup>a</sup>. VT. su 2. Feb.  
 " U. S. : Proc. Amer. Philos. Soc. Vol 55, no 1.  
 " Eng. : Nature, April 6<sup>th</sup> 1916  
 " " : English Mechanic, April 7<sup>th</sup> 1916  
 " S. Africa: Union Observer, Circular No. 33. Jan. 7<sup>th</sup> 16  
 " Can. : Trans. Roy. Can. Inst. Vol. II. pt. 1. Nov. 1915  
 26 U.S. : Astronomical Journal, No 689. Vol 29, no 14  
 28 Eng. : English Mechanic, Ap. 14<sup>th</sup>  
 " " : Nature, April 13<sup>th</sup>  
 " " : the Observatory, April 1916  
 " U.S. : Popular Astronomy, May, 1916  
 " " : Commun. Nat. Acad. Sc. Nos 20-26.  
 " " : Contrib. Nat. W. Solar Obs. No. 110.  
 Published in Canada & the Empire 22  
 " " the United States 17  
 " " Other Countries 6  
 45
- May U.S. : Proc. Amer. Acad. Arts & Sciences, V. 51 nos 11-12  
 " : Monthly Weather Review, Vol 44, no 2. Feb.  
 Spain: Bol. In Mensual, Est. Scien. Cartuja, Granada.  
 4 U.S. : Astrophysical Journal, April 1916 V. 43 no 3.  
 " : Harvard Bulletin 606.  
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1916  
May  
5<sup>th</sup>

- Egypt: Helwan Observatory Bulletin no. 18<sup>2</sup>
- Eng. : Nature April 20
- .. : English Mechanic, April 21<sup>st</sup>.
- U.S. : Harvard College Annual Report, Astron. Obs 1914-15
- .. : Astronomical Journal, No. 690 V. 29, no 15
- Spain: Boletin Mensual, Esac. Sev. Cordoba, Jan.-Feb. 1916
- 6 U.S. : Smith. Misc. Coll. No 9 Vol. 65, (The quipa Pyrheliometer)
- .. : Harvard Circular 191
- .. : " Annals Vol 76 nos. 11, 12
- 8 .. : Astronomical Journal, V. 29 no 19, No 691
- .. : Annals, New York Acad. Scien. V. 27 pp. 1-29 (3)
- .. : Journal Franklin Institute, May, 1916 V. 181 no. 5
- Kiel : Publikationer og mindre Meddelelser fra  
Kobenhavns. Observatorium No. 23, 1916
- U.S. : Harvard Bulletin 607.
- 10 Spain : Soc. Astron. de Barcelona, Anno III. Vol. IV. April
- U.S. : Univer. of Missouri Bulletin No. 225 (Lans Olson)
- 11 .. : Proc. of the American Philos. Soc. Vol. LV. no 2.
- Italy : Memorie Soc. Spettros. Dial. disp. 3<sup>a</sup> Vol 5. en 2<sup>a</sup> May
- 13 U.S. : Harvard Bulletin 608. 609. (15<sup>th</sup>)
- 15 India: Monthly Notices Astronomical Soc. India, April
- .. Journal .. .. Vol V nos 10-12, VI. 1-3.
- 16 Finland: "Festskrifti tillagnad Anders Donner." 1915

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- 1916
- May 16 Eng: English Mechanic. April 28<sup>th</sup> May 5<sup>th</sup>  
 ..: Nature April 27<sup>th</sup> May 4<sup>th</sup>
- 17 ..: Monthly Notices. R. A. S. Vol 76, no 5. March 1916  
 - U.S.: Lick Observatory Index to Vol VIII. Bulletins
- 18 ..: Harvard Bulletin 610  
 ..: Proc. Nat. Acad. Sciences. Vol II. no. 5.
- 22 Eng: Nature May 11<sup>th</sup>  
 ..: English Mechanic. May 12<sup>th</sup>  
 ..: France: Rapport Annuel. l'Observ. de Paris. 1914, 1915
- 25 Eng: Proc. Roy. Soc. Ser. A, Vol 92 no A. 641.  
 .. U.S.: Harvard Bulletin 611  
 .. France: l'Astronomie, Mai 1916  
 .. Japan: Astronomical Herald, Vol IX no 1 April 1916
- 26 Eng: The Observatory May 1916 No 500
- 27 Mexico: Boletin Mensual. Observ. Meteor. Mag. Cent., April-June 1914
- 29 U.S.: Lick Observatory Bulletin No. 281  
 ..: Proc. Amer. Philos. Soc. Vol. 55, no 3.  
 Italy: Scintilla, V. XIX. N. 49.-5  
 Eng:

Canada & the Empire	15
United States	26
Other Countries	14
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# Publications Received.

June  
6

- Eng: Jour. Brit. Astron. Assoc. Vol 26, no 6 March  
 .. : Nature, May 18<sup>th</sup>  
 .. : English Mechanic. May 19<sup>th</sup>  
 2 U.S. : Astronomical Journal No. 692 V. 29. no 20  
 .. : Popular Astronomy, June-July 1916 V. 24, no 6  
 5 U.S. : Monthly Weather Review, V. 44 no. 3. March 1916  
 9 " : Proc. Amer. Philos. Soc. Vol. LV. no 4,  
 .. Eng : English Mechanic. May 26<sup>th</sup>  
 .. " : Nature May 25.  
 Spain : Bol. Mensual. Soc. Astron. de Barcelona Vol II <sup>May 1916</sup> no 15-6  
 11 U.S. : Publications, Carnegie Inst. of Washington. May 1916  
 .. " : Harvard Bulletin No. 613  
 .. " : Lick Observatory Bulletin, 282.  
 .. " : Journal Franklin Inst. Vol 181, no 6, June  
 .. Italy : Memorie, Soc. Spettros. Ital. Disp. 4<sup>a</sup>. Vol 5. ser 2<sup>a</sup>. April  
 .. Mexico : Bol. Observ. Astron. Nac. num. 5.  
 .. Japan : Astronomical Herald. Vol IX no. 2 May 1916  
 13 Spain : Bol. Mensual, Observ. del Ibro. Vol VII no 3, 4, 5, 6.  
 Eng : English Mechanic. June 2<sup>nd</sup>  
 17 U.S. : Publ. Astron. Soc. Pacific. No. 164 June  
 19 .. : Astrophysical Journal Vol 43, no 4, May.  
 .. : Proc. Nat. Acad. Sciences. Vol II no 6, June  
 Eng. : Monthly Notices R.A.S. Vol 76, no 6 April 1916

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June			
19	Eng.:	The Observatory No. 501	June 1916
"	"	English Mechanic,	June 9 <sup>th</sup> ..
"	"	Nature,	June 8 <sup>th</sup> 1916
"	"	Annual Repot. Astronomer, Cape of Good Hope,	1914
23	U.S.:	Report on Mars, No. 15	
"	"	Terres. Magn. & Atmos. Eclat.	June 1916: V. 21, no 2
26	"	16 <sup>th</sup> Report, Michigan Academy of Science,	1914
"	"	Proc. Amer. Philos. Soc. Vol LV. no 5,	1916
"	"	Annals, New York Acad. of Science,	Vol 26 pp. 393-486
"	"	Publ. Astron. Soc. Pomona College,	Vol LV. no 3, April 16
"	"	Publ. Allegheny Observatory Vol III	nos 22, 23.
"	Can:	Monthly Record, Meteor. Obsrv.	Jan. 1916
27	Eng.:	English Mechanic,	June 16 <sup>th</sup>
"	"	Nature	June 15 <sup>th</sup>
"	India:	Bulletin, Kodaikanal Observatory	Nos 1-48.
"	"	Annual Report .. ..	1901-15
"	"	Memoirs Vol I no 1,	1909.
30	U.S.:	Comm. Nat. Acad. Sc. Nos. 27, 28	
"	"	Conts. Mt. W. Solar Obs. No. 109	
"	"	English Mechanic	June 30
		Canada & the Empire	18
		United States	21
		Other Countries	9
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1916  
July

## Publications Received:

- 4 Eng.: Report, Brit. Assoc. Adv. of Sc. for 1915.
- .. " : Journal, Brit. Astron. Assoc. May 1916 Vol 26, no 7.
- .. " : Nature June 22.
- .. U.S.: Public. Astron. Soc. Pomona Coll. Vol V. no 4, July 16
- France: J. Astronomie, Juin 1916
- 5 U.S.: Lowell Bulletin No. 73
- .. Eng.: English Mechanic. June 23<sup>rd</sup>
- 8 Phil. & S.: Bulletin, Weather Bureau. Sept. Oct. 1915
- .. U.S.: Monthly Weather Review, Vol 44 no 4 April 1916
- .. Japan: Astronomical Herald, June 1916
- .. U.S.: " Journal. No 693, June V. 29 no 21
- 10 " : Astrophysical Journal, Vol 43, no. 5 June 1916
- .. Denmark. Publ. og mindre Meddelelser, København An. No 24
- .. U.S.: Journal, Franklin Institute, July 1916 Vol 152 p 1.
- 13 Spain: Boletín Mensual, Soc. Astron. Barcelona, June-July
- 14 Eng.: English Mechanic. June 30<sup>th</sup>
- India: Nature June 29<sup>th</sup>
- Eng.: Journal, Astron. Soc. India, Vol VII. nos 4, 5, 6
- 15 .. : English Mechanic, July 9<sup>th</sup>
- .. " : Proc. Roy. Soc. Ser. A. Vol 92, no A. 642
- .. " : The Observatory, July 1916
- .. " : Nature July 6<sup>th</sup>
- 20 U.S.: Proc. Nat. Acad. Sciences, Vol 2, no 7, July

1916

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July

- 20 U.S.: Astronomical Journal, No. 694
- 24 " : Univer. Missouri Bulletin, Trans Observ. No. 24
- Eng: English Mechanic, July 14<sup>th</sup>
- " : Nature, July 13<sup>th</sup>
- 25 Mexico: Anales. Comision Geodesica Mexicana. Tomo 1-3:
- " : " : La linea Mexico - Orta. 1911
- " : " : Meridianos de longitud 98° W de Greenwich
- " : " : Operaciones de Campo y de Gabinete. Fasc no 1.
- Can.: Monthly Record, Meteorological Service. February 16
- 27 France: Journal des Observateurs Vol I nos 7, 8.
- 31 " : L'Astronomie, Juillet 1916
- Eng: Nature, July 20<sup>th</sup>
- " : English Mechanic, July 21<sup>st</sup>
- U.S.: Proc. Amer. Philos. Soc. Vol. 55: no 6
- Mauritius: Resultats, Mags. Meteor. & Serv. Observ. Jan. <sup>Feb</sup> 16

Canada & the Empire	19
United States	10
Other Countries	11
	40

August.

- Can.: Meteorological Observ. March 1916
- Mexico: Mem. y. Res. Soc. Scien. "Antonio Alzate" T. 34 nos 4-9
- Eng.: Solar Physics Obs. Cam. Am. Rep. 3<sup>rd</sup> Apr. 1915 - Mar. 1916
- " : English Mechanic, July 4, 18, 28.
- " : Nature Aug. 3, 10, 17, 27.
- Ireland: Proc. Roy. Irish Acad V. 33, S. A. nos 1-3

1916  
Aug.

# Publications Received.

- Eng.: Proc. Roy. Soc. Ser. A. Vol 92. no A.643.
- U.S.: Harvard Coll. Circular 192.
- .. : Annals Harvard Coll. Observ. Vol 82, vol. V. 73, pt. 3
- .. : Proc. Amer. Philos. Soc. Vol 55, no 7, 1916
- .. : Monthly Weather Review May 1916 Vol 44 no. 5
- .. : Proc. Amer. Acad. Arts & Sciences. Vol 52. nos. 1-3.
- .. : U. S. Naval Observ. Appendix to Publ. 2<sup>nd</sup> Ser. Vol 9.
- .. : Journal Franklin Inst. V. 182. no 2, Aug.
- .. : Proc. Nat. Acad. Sciences, V. 2 no 8. Aug.
- .. : Contr. Mt. W. Solar Obs. Nos. 112, 113.
- Can.: Annuaire l'Univers. Laval. 1916-17
- India: Mon. Vol. Astron. Soc. India, July 1916
- Austral: 4<sup>th</sup> Rep. Visitor to the Observ. & Gov. Astron. 1906-14
- France: J. Astronomie Aug. 1916
- .. : Journal des Observateurs, V. 1 no 9
- Japan: Astronomical Herald, V. 18 no 4 July
- Gialy: Mem. Soc. Spectros. Ital. Disp. 5, 6. P. 1. May-June
- .. : Catalogo Astrografico, Vol 11 + 63.
- Eng.: Journal & Trans. Leeds Astron. Soc. No. 23 1915
- Phil. Is.: Weather Bureau. Bulletin for Nov. 1915

Canada & the Empire

18

United States

15

Other Countries.

4

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37

# Publications Received.

Sept.

- 1 U.S.: Monthly Weather Review, V. 44 no. 6, June 16
- 5 India: Mon. Not. Astron. Soc. India, Aug. 1916
- .. Eng.: English Mechanic, Aug. 25<sup>th</sup>
- .. U.S.: Lowell Bulletin, No. 74
- 6 <sup>Denmark</sup>~~Denmark~~ Publil. Meddelelser fra Kopenhavns Observatorium <sup>no 25</sup>
- .. Eng.: Nature, Aug. 24<sup>th</sup> 16
- 8 U.S.: Lowell Bulletin, no 75
- Spain: Boletin Mensual, Soc. Astron. de Barcelona, Aug. Sept. 16
- Argentina: Result. Observ. Vac. Argentino Vol 21.
- 11 France: Journal des Observateurs Vol I, no 10, July-Oct 1915
- Spain: Boletin Mensual, Observ. d. Elva, Vol II no 7-10
- 12 U.S.: Weather Forecasting in the U.S.
- .. : Journal, Franklin Inst., Vol 182, no 3, Sept. 16
- .. Eng.: English Mechanic, Sept. 1<sup>st</sup>
- .. : Nature Aug. 31<sup>st</sup>
- .. Japan: Astronomical Herald, Aug. 1916 Vol IX no 5.
- France: Catalogue Photographique, Ciel, Tome IV.
- Aug U.S.: Popular Astronomy Vol 24, no 7 Aug. Sept.
- .. : Howard Bulletin 614
- .. : Proc. Amer. Acad. Arts & Se. V. 51 no 13
- .. : Astrophysical Journal, Vol. 44, no 1, July 1916
- Eng: The Observatory Aug. 1916
- .. : Jour. Brit. Astron. Assoc. Vol 26, no 8, June 1916
- .. : English Mechanic Aug 11, Nature, Aug 10<sup>th</sup>

New books added to the library  
- "A Theory of Time & Space."  
by Alfred A. Robb.

"Two New Sciences."  
by Galileo

"The Story of our Planet."  
by T. G. Bonney

"Essays on the life & work of Newton."  
by A. de Morgan

"Reminiscences & letters by Sir Robert Ball"

ROYAL ASTRONOMICAL SOCIETY  
OF CANADA

Librarian's Report for the month of April  
The number of Periodicals received

1915

were -	Those published in Canada & the Empire	25,15
"	" in the United States	12,26
"	" Other Countries	11,14
		<hr/>
		48,55
		—

Dr Percival Lowell  
57 State St.  
Boston, Mass.  
U.S.A.

# Publications Received.

- 1916
- Sept. 13<sup>th</sup> Holland: Recherches Astronomiques de l'Observ. d'Utrecht. VII.  
 .. France: La Science Francaise, T. I, II.  
 .. : Catalogue de 14263 Etoiles d'Abbadia 1915  
 14 .. : " Photographique du Ciel. Tome IV. 7 20° A + 22°  
 .. : " " " " " " " " 13° A + 15°  
 .. : Two rolls of Star Charts.  
 18 Eng: Proc. Roy. Soc. Ser. A. Vol. 92 no 644  
 19 .. : English Mechanic. Sept. 8<sup>th</sup>  
 .. : The Observatory, Sept. 1916 No. 504  
 .. : Mon. Not. R.A.S. Vol 76, no 8, June 1916  
 .. S Africa: Circular Nos. 34, 35 June 5, 24 Union Obs.  
 .. France: L'Astronomie, Sept. 1916  
 .. U.S.: Publ. Astron. Soc. Pacific, Vol 28, no 165, Aug. '16  
 20 U.S.: Astronomical Journal No. 695 p. 29 no 23  
 Italy: Mem. Soc. Spettros Ital. Disp. 7 Vol 5, ser 2<sup>o</sup> July  
 25 U.S.: Comm. Nat. Acad. Sci. obs 29-31  
 .. : Contr. N. W. Wilson SA. Obs. obs. 114  
 India: Journal Astron. Soc. India Vol II nos 7-9. Ap. '16  
 26 U.S.: Proc. Nat. Acad. Sci. V. II no 9.  
 France: Journal des Observateurs VI. no 11  
 Eng.: English Mechanic, Sept. 15.  
 28 Can.: Papers, Physical Lab. Univer. Toronto nos 48, 49.  
 .. : Water-works & Sewerage Systems. Com. of Cons.  
 U.S.: Harvard College Bulletin No. 615  
 Can.: Publ. Dom. Observ. Vol III, no 6.



# Publications Received.

1916

Sept. 30 U.S.: Weather Bureau Bulletin Dec. 1915 Phil. Is.  
 " : Annual Report 1914. Phil. Is.

Can.: Monthly Record. Meteor. Observ. April 1916

September  
 " : Canada & the Empire 21.  
 " : The United States 15  
 " : Other Countries 14

50

Oct.

1 U.S.: Contr. Princeton Univer. Observ. No. 4

4 U.S.: "The Aristillus Test for Planetary Definition"

" : "Evidences of Erosion on the Moon"

" : Popular Astronomy. October 1916 Vol. 24 no. 8.

Eng.: English Mechanic. Sept. 22<sup>nd</sup>

5 Mexico: Mem. y. Rev. Soc. Cin. Antonio Alzate T. 34 nos. 1-3

" U.S.: U.S. Weather Review Vol. 44. no. 7. July 16

" Eng.: List of Fellows & Assoc. June 1916 R.A.S.

10 " : English Mechanic, Sept. 29<sup>th</sup>

" Italy: Mem. Soc. Spectros. Dial. Dip. 8e Vol. V ser 2a.

" Mauritius Results. Magn. Meteor. Seism. March <sup>April</sup> 1916.

" Eng.: Mem. Brit. Astron. Assoc. Vol. XX pt. 3

" : List of Members, Brit. Astron. Assoc. Sept. 1916

U.S.: Astronomical Journal No. 696 Vol. 29, no. 24.

13 Can.: Royal Society, Can. Vol. 10. ser. 3. June 1916

U.S.: Annals. N.Y. Acad. Sciences. Vol. XXVII. pp. 31-191

# Publications Received.

Oct.

1916

- Italy: ... Passaggi di Mercurio e di Venere sul disco ... E. Hesse.  
 (Ext. Atti della Soc. Ital... Progresso delle Scienze VIII <sup>Luminosa</sup> <sub>1916</sub> <sup>Maggio</sup>)
- 14 U.S.: Astronomical Journal No 697 Vol 30, no 1.  
 " : Lick Observatory Bulletin Nos 283-285
- 15 " : Comm. Nat. Acad. Sc. Nos 32, 34, 35  
 " : Astronomical Journal, No. 698  
 " : Journal, Franklin Insti Vol 152 no 4 Oct. 1916  
 " : Astrophysical Journal Vol XLV. no 2. Sept. 1916
- India: Mon. Vol. Astron. Soc. India. Sept. 1916
- U.S.: Lick Observ. Bulletin no. 25
- 17 Eng.: English Mechanics: Oct. 6<sup>th</sup>  
 " : Proc. Roy. Soc. Ser. A. Vol 92. No. A645  
 " : The Observatory. No 505. Oct. 1916
- U.S.: Proc. Amer. Acad. Arts. Sc. Vol 52 no. 4. Oct. 1916
- 21 " : Proc. Nat. Acad. Sc. U.S. Vol 2, no 90 Oct. 1916  
 " : Astronomical Journal, No 699 Vol 30, no 3
- Japan: Astronomical Herald. Vol IX. no 6. Aug. 1916
- 24 Ireland: Scien. Proc. Roy. Dublin Soc. Vol XV. nos 1-4. Title V. XIV  
 " : Proc. Royal Irish Acad. Vol 33, pt. 4. 5. Sec. 1.
- 25 France: L'Astronomie. Oct. 1916
- 26 Eng.: English Mechanic. Oct. 13<sup>th</sup> 1916  
 " : Nautical Almanack. for 1919
- 28 U.S.: Lick Bulletin, No. 287



# Publications Received.

Nov.

- 18 Spain : Bol. Mensual, Soc. Astron. Barcelona, Oct. 1916 no. 18-63
- 20 U.S. : Astronomical Journal. No 702, V. XXX no. 6.
- .. .. : Proc. Amer. Acad. Arts & Sc. Vol 52 no 6.
- .. .. : Astrophysical Journal. Vol 44, no. 3. Oct-1916
- Gial. : Mem. Soc. Spettros. Gial. Dip. 9a Vol V. ser. 2a Sept.
- 22 U.S. : Proc. Nat. Acad. Sc. Vol 2. no. 11 Nov. 1916
- .. .. : Harvard Bulletin No. 617
- .. France : L'Astronomie Nov. 1916
- .. Eng. : Nature. Sept 7 - Nov. 9 (10 nos)
- .. Can. : Report Meteor. Service for... 1913
- 24 .. : Trans. Roy. Soc. of C. Ser. 3. Vol X. Sept. 1916
- 24 U.S. : Astronomical Journal. No. 703 Vol 30, no. 7
- 27 .. : Publ. Cincinnati Observ. No. 18 Part 2. 1916
- .. .. : Terr. Magn. & Atmos. Elec. Sept. 1916
- .. .. : Harvard Bulletin 615.
- .. Can. : Proc. & Trans. Nova Section Int. Sc. Vol XIV pt. 2.
- .. .. : Monthly Record, Meteor. Observ. June 1916

Canada & the Empire 23

U - S . . . . . 17  
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Dec.

- 1 Eng. : English Mechanic Nov. 17
- .. .. : Nature, Nov. 16
- U.S. : "Invisible Comets" by W. H. Pickering
- 5 .. : Popular Astronomy. Dec. 1916

## Publications Received.

5. Scotland: Proc. Roy. Soc. Edinburgh. Vol 36. pp 1-192
- 7 France: Journal des Observateurs Vol I no 12 (dup)
- India: Kudiakanal Observ. Bull. no. 42.
- Mexico: Anuario de Observ. Astron. Nac. Tacubaya 1917
- 8 Spain: Boletin Mensual, Soc. Astron. Barcelona. Nov. 1916
- Eng.: Nature, Nov. 23<sup>rd</sup>, 30<sup>th</sup>.
- 9 Eng.: English Mechanic. Nov. 24<sup>th</sup> Dec. 1<sup>st</sup>.
- 12 ..: Monthly Notices. R.A.S. Vol 76. no 9 Oct. 1916
- ..: Journal. Brit. Astron. Assoc. Vol 27. no 1. Oct. "
- ..: Memoirs .. .. . Vol 20 pt. 4
- Mauritius: Results of Magn. Meteor. Obs. Obs. Royal Alfred Obs. Vol 2, pt. 6-7
- Japan: Astronomical Herald. Vol 9 nos 7, 8. Oct. 1916 Nov.
- Italy: Mem. Soc. Spettros. Dial. Dup. 10<sup>a</sup> Vol V. no 2<sup>a</sup>. Oct. 1916
- India: Monthly Notices, Oct. Nov. 1916
- U.S.: Cont. Mt. Wils. Sol. Obs. nos 115-121
- ..: Monthly Weather Review Vol 44, no. 9. suppl. no 3.
- Phil. Is.: Weather Bureau Bull. Jan. - Feb. 1916
- Can.: Calendar, Unvers. of T.
- 15 U.S.: Harvard Bulletin 619
- ..: Astronomical Journal No. 704 Vol 30. no 8.
- ..: Journal Franklin Inst. Dec. 1916 Vol. 182 no 6.
- 18 ..: Astrophysical Journal. Vol 44. no 4.
- ..: Harvard Circular 198.

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## Publications Received.

Dec. 20 <sup>th</sup>	U.S.	: Harvard Bulletin 620, 621	
23	Eng	: English Mechanic, Dec. 8 <sup>th</sup>	
"	U.S.	: Publ. Astron. Soc. Pacific, Vol 29, no 166, Dec.	
	Eng	: "Science Abstracts", Vol 19 Pt. 9, no 225	
26	U.S.	: Publ. Astron. Soc. Pacific, Vol 29 no 166	Dec.
"	Spain	: Terremotos, Sismografos y edificios. 1916	
	Eng.	: The Observatory, Dec. 1916 no 507	
	"	Companion, No. 508	1917
28		: Nature, Dec. 14 <sup>th</sup> 1916	
29	"	: Proc. Roy. Soc.; Ser. A. Vol 93 no 646	
	"	: English Mechanic, Dec. 15 <sup>th</sup>	
30	U.S.	: Harvard Bulletin 622	
		From Canada & the Empire	19
		" United States	17
		Other Countries	6
			42

Books purchased in 1916 (cont.)

- May - "Meteorites", by O. C. Farrington, Ph.D.  
publ. by the author, Chicago, 1915
- "The Universe as pictured in Milton's Paradise Lost", by W. F. Warren  
publ. by the Abingdon Press New York, 1915
- October "The Earth's Beginning", by Sir Robert Ball  
publ. by Cassell & Co. London, N.Y. Toronto 1909.
- "The Origin of the Earth", by Thos. Chrowder Chamberlin  
publ. by University of Chicago Press, 1916
- "A Letter.. concerning the Rise & Progress of Astronomy  
among the Antients", by G. Cosiard  
publ. by T. Osborne, London, 1746
- "Life of James Ferguson, F. R. S.", by R. Henderson, F. R. S.  
publ. by Fullarton & Co., Edinburgh, London, 1867
- "Unfinished Worlds", by S. H. Parker, F. R. A. S., F. L. S.  
publ. by Hodder & Stoughton London 1888
- "Practical Navigation & Nautical Astronomy", by J. V. Norie  
publ. by Norie & Wilson, 1894

Books purchased in 1916 cont.

October "The Cities of the Sun" by Geo. W. Warder  
publ. by G. W. Dillingham Co. 1901

"An Explanation of the Gnomonic Projection of  
the Sphere" by A. de Morgan  
publ. by Baldwin & Cradock London 1836.

"History of Astronomy" 5 vols. by M. Bailly  
publ. by Les Freres des Bure Paris 1779-87

"Fundamenta Astronomiae" by J. Bradley  
publ. Regiomonti 1898.

"Observations on Spots on the Sun" by R. C. Carrington  
publ. by Williams & Morgan London 1863.

Nov. "Ten British Mathematicians" by Alex. Macfarlane  
publ. by J. Wiley & Sons, N.Y. & Chapman & Hall, London 1916

"The Birth-Time of the World" by J. G. S. Joly  
publ. by Fisher Union Ltd London 1915

"Great Pyramid Passages" Vol II. by G. & M. Edgar.  
publ. by Elliot Stock London 1913

Dec. "Theory of Eclipses" by H. Buchanan

"Star & Weather Gossip" by Joseph H. Uglie.  
publ. by the author London 1915

"Introduction to Astronomy" by Morrison  
~~Origin of the Earth, by Chamberlain~~



## Books Purchased in 1916

- Feb. "An Introduction to the Study of Variable Stars,"  
by Caroline E. Furness, <sup>P.H.D.</sup> the Vassar Semi-Centennial Series  
publ. by the Riverside Press Cambridge. etc. 1915
- "Atmospheric Circulation & Radiation" by Frank H. Bigelow  
publ. by John Wiley & Sons, Inc. New York & London, Chapman & Hall  
1915
- "How to identify the Stars" by Willis J. Milham P.H.D.  
publ. by The MacMillan Co. New York 1914
- "The Great Pyramid" by Richard A. Proctor  
publ. by Longmans, Green & Co. London & New York 1898
- Mar. "Ten Years Work of a Mountain Observatory" by G. F. Hale  
publ. by Carnegie Institute of Washington, Wash. 1915  
The University of the Atlantic
- April "A few Chapters in Astronomy" by Claudius Kennedy  
publ. by Taylor & Francis, London 1898.
- "A Voyage in Space" by H. H. Turner  
publ. by the S. P. C. K. London. 1915
- "The Southern Skies" by R. A. Proctor  
publ. by Longmans Green & Co. 1896

- May "Seneca. Physical Science in the time of Nero." 5/  
Trans. by T. Clarke, publ. by Macmillan & Co. London 1910
- "Spinning Tops & Gyroscopic Motion", by H. Crabtree 4/  
publ. by Longman's Green & Co. London. ed. 1909
- "Astronomy of the Ancients", by Sir G. Cornwall Lewis 15/  
publ. by Parker, Son & Bourn, London 1862
- "Tabulae Astronomicae" by Edmund Halley, 7/6  
publ. by William Innes, 1749.
- "Historia Coelestis", by Brahe. publ. in 1692. 15/
- "Is Venus Inhabited?", by C. G. Housden  
publ. by Longmans, Green & Co. London 1915 1/6
- "Relativity" by A. W. Conway, D.Sc. F.R.S., 2/  
publ. by G. Bell & Sons, London. 1915
- "Sir William Huggins & Spectroscopic Astronomy"  
by G. W. Maunder publ. by T. C. & E. C. Jack, London. 6'
- "Stars of the Southern Skies", by M. A. Orr 2/  
publ. by Longman's Green & Co. London 1915

see page 20

Books purchased in 1915.

- April. "A Theory of Time and Space" by Alfred A. Robb, M.A.  
publ. Cambridge Univers. Press. 1914 10/6
- "Two New Sciences" by Galileo Galilei  
publ. New York, Macmillan Co. 1914. \$2
- "The Story of Our Planet" by T. G. Bonney, D.Sc., F.R.S.  
publ. by Cassell & Co. Ltd. 1910 7/6
- "Essays on the Life & Work of Newton" by A. de Morgan  
publ. by The Open Court Publishing Co. 1914 \$1.25
- "Reminiscences & Letters of Sir Robert Ball" edited by W. V. Ball  
publ. by Cassell & Co. 1915 \$3.50
- June "A day in the Moon" by the Abbé Th. Moreux  
publ. by Hutchinson & Co. London. 1913
- "Dante & the Early Astronomers" by M. A. Orr.  
publ. by Gall & Inglis. London 15/- 1913
- Sept. "Modern Seismology" by E. W. Walker  
publ. by Longmans, Green & Co. London 1913

"The Essence of Astronomy" by F. W. Price  
publ. by G. P. Putnam's Sons N.Y. & London \$1 1914

"The Riddle of Mars" by C. S. Housden  
publ. by Longmans Green & Co. London. 3/6. 1914

"The Call of the Stars" by John R. Kippax M.D., F.R.S.  
publ. by G. P. Putnam's Sons, N.Y. & London. 1914

"Sun Lore of all the Ages" by William Tyler Olcott A.M.  
publ. by G. P. Putnam's Sons, New York & London. 1914

July

- "The Observatory Vols 1-24" 2.00
- "Traité de l'Aurore Boreale" par M. de Maran 1754. <sup>45</sup>12.00
- "Expedition Norvégienne, 1899-1900" Kr. Bjerkeland 1901. 4.00
- "Aurora Borealis Expedition 1902-03" V. 1 . . . 14.00
- "Aurore Boreale" par M. S. Lemström. 1886 4.00
- "Aurorae & Their Spectra" M. Rand Capron 1879, 28.00
- "Nordlicht vom 25 October 1870" J. H. J. Högel 1871 1.50
- "Aurorae Boreales et Australes" M. de la Rive 1862 1.50
- "Aurorae Boreales" par M. A. Bravais. 1856 1.00
- "Aurorae Boreales 1882-3" par A. F. W. Paulsen 1891 3.00
- September "Moon Lore" by Rev. T. Harley 1885 London. 5 6
- "Historical & Future Eclipses" by S. F. Johnson. 1896 2 6
- "Urania. Cosmics" Vols 1-2-3 1881-4 6 0
- "The Scientific Papers of John Couch Adams. V. 1, 2, 1900 10 6
- "Plurality of Worlds" by M. de Fontenelle 1761 1 0

Books purchased in 1914

- May. "Archimedes of Samos" by Sir Thomas Heath  
Oxford, Clarendon Press 18/ net. 1913.
- "Meteorology" by Willis Ivester Millham Ph.D.  
Macmillan Co New York 1912
- "Astronomy" by Harold Jacoby  
Macmillan. 1913. 0 \$2.50
- June "Science & Education" Vol. 1. The Foundations of Science,  
by H. Poincaré. The Science Press. New York & Garrison
- "Thick Lens Optics" by A. L. Baker  
D. Van Nostrand Co New York. 1912.
- "Popular Lectures & addresses" by Lord Kelvin  
"Nature Series. McMillan & Co. 1894
- "Stellar Motions" by W. W. Campbell, Director Lick  
Yale University Press. New Haven 1913.
- August "Are the Planets inhabited?" by E. W. Maunder  
Harper Bros. London & New York 1913.

Books purchased in 1914

August "William Thomson, Lord Kelvin, his way of Teaching"  
by David Wilson, publ. by John Smith & Son, Glasgow.

"Ways of the Planets." by Martha Evans Martin A.M.  
publ. by Harper & Bros. London & New York 1912

"Milton's Astronomy" by Thomas W. Orchard  
pub. by Longmans, Green & Co. 1913.

"The Scientific Papers of Sir William Herschel."  
Vols I & II. published by the Royal Society  
& the Royal Astronomical Society 1912. London.

"The Book of Sun-dials" by Mrs. A. Gatty 1900  
pub. by G. Bell & Sons, London

Sept. "Astronomische Jahrbuch" 15. 1913.

Nov. "Le Systeme du Monde" by Pierre Duhem Tom I. & II.  
pub. by Librairie Scientifique A. Hermann et Fils, Paris, 1914

Dec. "Stellar Movements & the Structure of the Universe."  
by A. S. Eddington  
pub. by MacMillan & Co. 1914

Books donated in 1915.

- Jan. Astrographic Catalogue 1900 Greenwich Section Vol. III.  
by the Royal Observatory, Greenwich, England.
- April "Principles & Methods of Geometrical Optics"  
by James P. C. Southall. pub. by MacMillan Co.  
presented by Prof. C. A. Chant
- "Essai de Cosmogonie Tourbillonnaire, par R. Belot  
pub. by Gauthier-Villars. Paris.  
presented by Prof. C. A. Chant.
- June Report of the British Association for the Advancement  
of Science, 1914 Australia
- Sept. Cape Astrographic Zones Vol. II. Coordinates - 42°  
Cape Meridian Observations 1905-1908
- Oct. Fondation Teyler. Catalogue de la Bibliothèque Tome II.  
Haarlem 1904-1912
- Nov. Report of the Chief Astronomer for 1911. Ottawa.

Books Purchased in 1915 (Cont'd.)

Nov. "Dernieres Pensées." by Henri Poincaré  
publ. by Ernest Flammarion, Paris 1913

"La Théorie du Rayonnement" rapports et discussion  
publ. par MM. P. Langevin et M. de Broglie Paris 1911

Feb. 1916 "How to identify the Stars." by Willis G. Millham 260.  
publ. by MacMillan Co. N.Y. 1914



Books donated in 1914

April Trent Watershed Survey, Commission of Conservation  
Proceedings & Transactions of the Royal Society  
of Canada Vol V. of Series I. Presented by  
Mr A. F. Hunter of Barrie, Ont.

April Proceedings & Transactions - Royal Society of  
Canada Vol V year 1887 presented by Mr Hunter  
of Barrie, Ont.

May Greenwich Observations 1912  
Cape Astrographic Zones Vol I.

June Publication of the U. S. Naval Observatory  
Second Series, Vol VIII.

The American Ephemeris & Nautical Almanack: 1916  
Presented by the U. S. Naval Observatory

"Conservation of Coal in Canada" W. J. Dick  
Commission of Conservation

July "Report of Chief Astronomer for 1910 Vol III with Maps.  
Ottawa

Books donated in 1914. 1915

- July "Our Farming in Canada", Commission of Conservation
- Sept. Publications of the Lick Observatory Vol. XI. 1913.
- " Biography & Popular Account of Unusually Discreet  
of T. G. See! by W. F. Webb  
presented by author
- March 1915 The American Ephemeris & Nautical Almanack 1917.  
presented by the U.S. Naval Observatory.
- Report of the British Association for the  
Advancement of Science 1913.
- Feb. 1916 Publications of the U.S. Naval Observatory 2<sup>nd</sup> ser. Vol. 9, pt. 2.  
Washington 1915
- Feb. 1916 "Altitudes in Canada" by James White,  
publ. by Commission of Conservation, Can. 1915  
"Dictionary of Altitudes."  
"Forest Protection in Canada 1913-14."
- Mar. 15<sup>th</sup> "Atlas of Canada" Chief Geographer.  
"Report, Brit. Assoc. Adv. of Sc. 1915."

Donated.

Dec.  
1913.

History & Description of the Royal Observatory,  
Cape of Good Hope  
(sent by the Royal Observatory, Greenwich, Eng.)

Dec.  
1913

Forest Protection in Canada 1912.  
Commission of Conservation, Ottawa

Books donated during 1913.

- June "Annales de l'Observatoire d'Astronomie Physique de Meudon, France, Vols. I. II III. IV
- June Report of the British Association for the Advancement of Science 1912.
- July "Waterworks of Canada," by the Committee of Cons.
- August Proceedings & Transactions Royal Society of Canada Vol VI. by Mr Hunter.
- Sept. # Fourth Annual Report. Commission of Conservation  
"Greenwich Observations 1911"
- Oct. Long Sault Rapids & St. Lawrence River  
Commission of Conservation  
Report of the Chief Astronomer for 1910
- Nov. ~~Astronomischer Jahresbericht Band XIV. 1912~~

## Books Purchased.

Nov. 1912 "Conférences sur quelques thèmes choisis de la Chimie  
Physique" par Svante Arrhénius 3 fr. Paris  
Librairie Scientifique et Industrielle 6, Rue de la Sablonne.

Feb. 1913 "Astronomy" by F. W. Dyson F.R.S.  
Science Progress J. M. Dent & Son, London Eng. 1/3

"The Solar System" by Percival Lowell A.B. D.D.  
Houghton, Mifflin & Co. The Riverside Press,  
Cambridge. Boston & New York.

"Sur les Trajectoires des Corpuscules électrisés dans  
l'espace" by Carl Störmer  
Société générale d'imprimerie, Paris, 18

Maps, how they are made, how to read them  
by H. N. Dickson, M.A. D.Sc. Oxon.  
G. W. Bacon & Co. Ltd. 127 Strand, London.

"Clocks, Watches, & Bells" by Ford Grimthorpe  
Crosby, Lockwood & Son, 7 Stationers' Hall Court,  
Aldgate Hill, London.

1915 "The Sun" by Charles G. Abbott. \$2.50  
Publisher: D. Appleton & Co. New York

"A Beginner's Star Book" by Kelvin McKeady  
Published by G. B. Putnam's Sons. New York & London.

"Nautical Astronomy" by W. P. Symonds. ox  
Published by J. D. Potter 145 Minors E. C. London

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- March. Catalogue of 9842 Stars. by J. W. Baekhouse.  
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