

1383
13

INDEX.



	PAGE		PAGE
Air, The Winds in the Free, C. J. P. Cave on	66	Hydrography, 144 ; Winter Fluctuations of Temperature in England and Scotland	142
Aitken, John, F.R.S. The Steven- son Screen.....	232	Bort, Léon Philippe Teisserenc de (obituary)	11
Ajo, Argentine Republic, Monthly and Annual Rainfall at, from 1858 to 1912	120	Boutflower, H. C., Rainfall com- parisons	140
Antarctic, The Australian Expedi- tion, 81, 101 ; Disaster in the, 21 ; Synoptic Meteorology of, M. W. Campbell Hepworth, C.B., R.D. (review)	102	Boys, H. A., Heavy Rain in France Braby, H. W., on the Harmattan Wind of the Guinea Coast ...	143 107
April, 1913, The Weather of	64	Brighton, Heavy Rainfall at	129
Archibald, Edmund Douglas, M.A. (obituary)	221	British Association, Luncheon at the, by E. Gold, 159 ; Meteorol- ogy at the, by E. Gold.....	177
Atmospheric Cooling	13	British Empire, Climatological Tables for the, 20, 40, 60, 80, 100, 116, 136, 156, 176, 196, 220, 240	176, 240
Atmosphere, The "Upper," W. Godden on	27	British Rainfall, 1911, 67 ; 1912 ...	117
August, 1913, The Weather of ...	139	Brooks, C. E. P., B.Sc., on the Meteorological Conditions of an Ice Sheet, and their Bear- ing on the Dessication of the Globe	223
Australia, Upper air Exploration in Autumnal Warmth, Unusual	150	Brooks, C. F., on Snowfall of the United States	7
Autumn, Mildness of the	185	Carpenter, F. A., The Climate and Weather of San Diego, California (review)	131
Backhouse, T. W., Thunderstorm of September 16th at Newcastle- on-Tyne	165	Cartwright, E. H., Thunderstorm of July, 14th-15th, 1913	126
Balloon Ascents, International, by W. H. Dines, F.R.S., 15, 33, 49, 66, 111, 129, 151, 189	189	Cave, C. J. P., on the Winds in the Free Air	66
Balloons, rate of ascent of pilot....	32	Ceylon, Topical Rainfall in, 26, 61, 212	212
Bamford, A. J., Heavy Rains in Ceylon	212	Chree, Dr. C., F.R.S., and others, on Physical Observations during Solar Eclipse of April 17th, 1912	65
Barbados, Pilot Balloon observa- tions in	107	Church, J. E., Jun., Ph.D., on Recent Studies of Snow.....	223
Barometer, lowest on Record in New York	50	Clare, J. F. Leigh, Mildness of the Autumn	185
Berry, A. J., The Atmosphere (review)	149	Clark, J. E., Partial Drought— Halo	109, 141
Bjerknes, Professor, on Dynamic Meteorology and Hydro- graphy, by L. C. W. Bonacina	144	— Temperature Variations in Fog	211
Bonacina, L. C. W., Frozen Pre- cipitation, 188 ; on Some observations and Reflections upon the Weather, 23 ; on the Weather of January 11th, 1913, 10 ; Professor Bjerknes on Dynamic Meteorology and		— and R. H. Hooker, on Pheno- logical Observations	65

	PAGE		PAGE
Climate of Rome, by Dr. Fillippo Eredia (review).....	35	Drought, Partial	109, 141
Climatological Tables for the British Empire, 20, 40, 60, 80, 100, 116, 136, 156, 176, 196, 220, 240	240	Eclipse, Solar, of April 17th, 1912, Physical Observations during the, by Dr. Chree, and others	65
Cloud Form Frequencies at Epsom, 1903-1910—	85	Editor, From the.....	157
Corless, R., and others, on Physical Observations, during Solar Eclipse of April 17th, 1912 ...	65	Edwards-Moss, Sir John, The Climate of Torquay ...	129, 164, 212
Correlation of Rainfall	107	Eredia, Dr. Fillippo, The Climate of Rome (review), 35; the Diurnal Variation of Temperature in Italy (review).....	131
Correlations, Southern Hemisphere, Seasonal, by R. C. Mossman, 2, 44, 82, 104, 119, 160, 200,	226	Errata	10, 215
Cox, Lieut. F. A. D., Waterspouts at the Chatham Islands	50	Espinier, Jas. B., on "Rainfall" or "Precipitation".....	10
Craig, J. I., on a Rainfall Query..	8	Exceptional Rainfall at Bishop's Castle, 26th May, 1913	92
Curtis, R. H., Weather Fallacies...	209	Expedition, The Australian Antarctic	81
December, 1913, The Weather of Dechevrens, Rev. Marc., S.J., The Warm and the Cold Winds ...	209	Fallacies, Weather, by A. O. Walker, F.L.S.	167, 184, 233
Decker, C., on the Lowest Barometer on Record in New York	50	February, 1913, The Weather of — Filldyke	187
— Temperature Vagaries in New York	108	Floods in North-west Wales.....	128
Denning, W. F., on Meteoric Streaks and Velocities of Upper Air Currents	28	Field Crop, Meteorological Conditions in a	32
Determination of Radiation of the Air from Meteorological Observations	85	Foster, Mabel, Rainfall comparisons	140
Dew, the Genesis of	163	France, A Heavy Rain in.....	143
Dines, J. S., on Pilot Balloon Observations in Barbados, 1910-1912.....	107	Free Air, Winds in the	66
— on the Rate of Ascent of Pilot Balloons.....	32	Froc, Louis, S.J., Rainfall in China during a period of eleven years (review)	94
Dines, W. H., F.R.S., Frozen Precipitation	210	From the Editor	157
— International Balloon Ascents, 15, 33, 49, 66, 111, 129, 151,	189	Germany, the daily march of Air Temperature in, by Dr. H. Henze (review)	54
— Meteorological Nomenclature...	71	Gilbert, J. J., Origin of the Snowdon Gauge.....	108
— Thunderstorms on April 29, 1913	69	Glazed Frost	13, 210, 233
— on the Vertical Distribution of Temperature in the Atmosphere	65	Godden, William, on the "Upper" Atmosphere	27
Dobson, G., and others, on Physical Observations during Solar Eclipse of April 17th, 1912 ...	65	— The Genesis of Dew	163
Doncaster, Exceptional Rainstorm at.....	180, 222	Gold, E., M.A., Glazed Frost	233
Dover, John, Long Dry Periods at Totland Bay	212	— Meteorology at the British Association	177
Drought, Great	141	— Meteorological Luncheon at Birmingham	158
— in India, Liability to as compared with that in other countries, by G. T. Walker, F.R.S. (review)	54	— on Determination of Radiation of the Air from Meteorological Observations	85
		Grenander, Sven, On the appearance of the Sea-breeze on the east coast of Sweden (review)	35
		Guinea, Coast, Harmattan Wind of Hall, Maxwell, on the Wind Instruments and the November Hurricanes in Jamaica.....	107
		Hall, W., Summer Temperature...	30
			127

INDEX.

v.

	PAGE		PAGE
Hamlin, G. B., Heavy Rainfall at Brighton	129	Meteorological News and Notes...	10, 26, 55, 111, 179
Harmattan Wind of the Guinea Coast	107	— Nomenclature	71
Hellmann, G., Results of ten years' Rainfall Registration in North Germany (review)	94	— Notes on the Months of 1913...	19, 39, 59, 79, 99, 115, 135, 155, 175, 195, 219, 239
Henze, Dr. H., on the daily march of Air Temperature in Germany (review)	54	— Society, Royal	6, 31, 42, 65, 85, 107, 198, 222
Hepworth, M. W. Campbell, C.B., R.D., National Antarctic Expedition, 1901-1904, Meteorology, Part II. (review)	102	— — Council of the, 7; Dinner of	86
High May Temperatures in London	88	— — Scottish, 12, 224; Council of the	12, 226
Hooker, R. H., and J. E. Clark on Phenological Observations	65	Meteor of Sunday, August 3rd, 1913	186
Howard, William Dillworth, F.I.C. (obituary)	221	Meteoric Streaks and Velocities of Upper Air Currents	28
Ice-Age, The, and Variation of Latitude, Prof. R. Spitaler (review)	95	Mildness of the Autumn	185
Ice Observations in North Atlantic	42	Mill, Dr. H. R., The Realm of Nature (review)	170
International Balloon Ascents, by W. H. Dines, F.R.S.	15, 33, 49, 66, 111, 129, 151, 189	Miller, S., Visibility	213
January, 1913, The Weather of ..	13	Milne, Dr. J. R., on Atmospheric Cooling	13
Jones, J. R. Gethin, Floods in North-West Wales, 128; The Latest Snow Spot	109	Montgomery, H., Rain Days in 1913	142
July, 1913, The Weather of	125	Moon and the Weather, by F. W. Henkel, B.A.	72
June, 1913, The Weather of	106	Moore, Sir J. W., M.D., on the Meteor of August 3rd, 1913 ...	186
Kilner, H. I., Thunderstorm and Black Rain	70	Mossman, R. C., and Carle Salter, on The Great Rainstorm at Doncaster, Sept. 17th, 1913 ...	222
Knoche, Dr. W., Chilian Meteorological Annual, 1911 (review)..	190	— Southern Hemisphere Seasonal Correlations	2, 44, 82, 104, 119, 160, 200, 226
— Hourly Meteorological Values at Santiago during 1911 (review)	190	Nicolson, L. J., Thunderstorm of Sept. 16th at Newcastle-on-Tyne	165
Lempfert, R. G. K., on British Weather Forecasting, Past and Present	42	November, 1913, The Weather of	213
— Weather Science (review)	53	OBITUARY :—	
London, High May Temperatures in	89	Léon Philippe Teisserenc de Bort	11
MacDowall, A. B., Our Winters, 234; The Climate of Torquay	141, 187	Charles Theodore Williams, M.D., M.V.O.	11
Mace, J. E., Rainfall Comparisons March, 1913, The Weather of ...	47	Edmund Douglas Archibald, M.A.	221
Martin-Smith, A. S., Curious Phenomenon	51	William Dillworth Howard, F.I.C.	221
May, 1913, The Weather of	87	Observatory, The High-level, in Teneriffe	55
— Temperatures in London, High	88	October, 1913, The Weather of ...	181
Mellish, H., Sunshine and Rain of Past Twelve Months	71	Omond, R. T., awarded honorary degree of LL.D.	111
Meteorological Luncheon at Birmingham, by E. Gold, M.A.	158	Owen, D. H., on Definition of a Shower	29
		Parbury, A. F., A Great Drought	141
		Partial Drought	141
		Peck, J., and Dr. E. C. Snow, Correlation of Rainfall	107
		Phenological Observations, by J.E. Clark and R. H. Hooker	65
		Phenomenon, Curious	51

	PAGE		PAGE
Photography in Natural Colours...	10	REVIEWS—(con.) :—	
Pilot Balloon Observations in Barbados	107	La Pluie en Chine durant une Periode de onze anneés 1900-1910, by Louis Froc, s.j.	94
Platt, E. J., Thunderstorm on April 29th, 1913	68	Ergebnisse Zehnjähriger Registrierungen des Regenfalls in Nord-deutschland, by G. Hellmann	94
Precipitation, Note on Frozen, by L. C. W. Bonacina	188	Die Eiszeiten und Polschwankungen der Erde, by Prof. Rudolf Spitaler	95
Public Spirit, An Example of	70	National Antarctic Expedition, 1901-1904, Meteorology, Part II., by M. W. Campbell Hepworth, C.B., R.D.	102
Rainbow, A White	93	The Climate and Weather of San Diego, California, by F. A. Carpenter	131
Rain Days in 1913	93, 142	La Variazione diurna della Temperatura in Italia, by Filippo Eredia	131
— Heavy, in France	143	The Atmosphere, by A. J. Berry, M.A.	149
Rainfall of the Months of 1913, 16, 17, 18, 36, 37, 38, 56, 57, 58, 76, 77, 78, 96, 97, 98, 112, 113, 114, 132, 133, 134, 152, 153, 154, 172, 173, 174, 192, 193, 194, 216, 217, 218, 236, 237, 238		Weather Bound, by Rupert T. Smith	149
— of the Winter Six Months, 1912-1913, 52; of 1913	230	The Realm of Nature, by Hugh Robert Mill, D.Sc., LL.D.	170
— at Santiago, Chile, 1867-1911, 5; Heavy, at Brighton, 129; Heavy, in short periods in India, by G. T. Walker, F.R.S. (review), 55; in China during a period of Eleven Years (review), 94; Reported Heavy Fall at Tunbridge Wells, 108; Results of Ten Years' Registration in North Germany, by G. Hellmann (review), 94; Tropical, in Ceylon	26, 61, 212	Anuario Meteorologico de Chile, 1911 (Chilian Meteorological Annual, 1911, by Dr. Knoche, Director)	190
— Comparisons, 140; or "Precipitation," 10; Query a	8	Valores Horarias de los Elementos Meteorologicos en Santiago 1911 (Hourly Meteorological Values at Santiago during 1911, by Dr. Knoche, Director)	190
Rain Gauge, The "British"	183, 211	Indian Meteorological Memoirs, Vol. 22, Part II., by Gilbert Walker	191
Rainstorm at Doncaster, Sept. 17th, 1913, 180, 222; at Kingston on 6th October, 1913	186	Robins, A. G., Thunderstorm of July 14th-15th, 1913	127
REVIEWS :—		Robinson, W. H., on Periodical Variations of the Velocity of the Wind at Oxford	31
Il Clima di Roma esame delle osservazioni meteorologiche eseguite dal 1782 al 1910, by Dr. Filippo Eredia	35	Russell, S. C., on Results of Monthly and Hourly Cloud Form Frequencies at Epsom, 1903-1910	85
Ueber das Erscheinen der Seebrise an der Schwedischen Ostküste. Inaugural-Dissertation, by Sven Grenander	35	— Thunderstorm on April 29th, 1913	68
Weather Science, by R. G. K. Lempfert, M.A.	53	Salter, Carle, and R. C. Mossman, on the Great Rainstorm at Doncaster on September 17th, 1913	222
Der tägliche Gang der Lufttemperatur in Deutschland, by Dr. H. Henze	54	Santiago, Chile, Monthly Rainfall at, from 1867-1911	5
The Liability to Drought in India as compared with that in other Countries, by Gilbert T. Walker, F.R.S.	54	Scottish Winter, The	93
Data of Heavy Rainfall over Short Periods in India, by G. T. Walker, F.R.S.	55		

INDEX.

vii.

	PAGE
Sea-breeze on the East Coast of Sweden, by Sven Grenander (review)	35
September, 1913, The Weather of Shaw, Dr. W. N., F.R.S., Forecasts	166
Shower, Definition of a	207
Smith, R. T., Weather Bound (review)	29
Snowdon Gauge, Origin of	149
Snowfall of the United States, C. F. Brooks on	52, 108, 235
Snow, Dr. E. C., and Peck, J., Correlation of Rainfall	7
Snowspot in Wales, The Latest ..	107
Southern Hemisphere Seasonal Correlations, R. C. Mossman on, 2, 44, 82, 104, 119, 160, 200, 226	109
Spitaler, Prof. Rudolf, The Ice Age and Variations of Latitude over the Earth's Surface (review)	226
Stevenson Screen, The, by John Aitken, F.R.S.	95
Summers of 1912 and 1913, The ..	232
Sunshine and Rain of Past Twelve Months	137
Tabor, H. S., February Fillydye..	71
Tawney, E. M., Thunderstorms on April 29th, 1913.....	187
Temperature Vagaries in New York	68
— Winter Fluctuations of, in England and Scotland.....	108
Teneriffe, The High-Level Observatory in.....	142
Thunderstorm and Black Rain....	55
— of April 29th, 1913, 68; May 27th, 1913, 91; May 30th, 1913, 92; July 14th - 15th, 1913, 126; Sept. 16th, 1913, at Newcastle-on-Tyne.....	70
Torquay, Climate of	165
Upper Air Exploration in Australia	129, 141, 164, 187, 213
Vertical Distribution of Temperature in the Atmosphere..	150
Visibility, S. Miller on	65

	PAGE
Volume, The New	1
Walker, A. O., on Weather Fallacies	167, 184, 233
Walker, G. T., F.R.S., Data of Heavy Rainfall over Short Periods in India (review), 55; Monthly and Annual Normals of Number of Rainy Days (review), 191; the Liability to Drought in India as compared with that in other Countries (review)	54
Ward, Col. M. F., Origin of the Snowdon Gauge	52, 235
Waterspouts at the Chatham Islands	50
Watt, A., M.A., on Glazed Frost ..	13
— The "British" Rain Gauge.....	211
Weather, an early Note on the ..	67
— Fallacies, A. O. Walker, on	167, 184, 233
— Forecasting, British, Past and Present	42
— of January 11th, 1913	10
— Science, R. G. K. Lempfert on (review)	53
— Some Observations and Reflections upon the, by L. C. W. Bonacina	23
— The Magnificent, of May, 23rd —30th, 1913	90
Wedderburn, Dr. E. M., on the Appearance of the Surface of Fresh-Water Lochs in Calm Weather	226
Weston, G., Reported Heavy Rainfall	108
Wettest First Quarter on Record, The	92
Wilson, Albert, The Doncaster Rain Storm	235
Williams Dr. Charles Theodore (obituary)	11
Wind Instruments and the November Hurricanes in Jamaica, by Maxwell Hall	30
Wind, Periodical Variations of the Velocity of, at Oxford	31

LIST OF ILLUSTRATIONS.

Centres of Action of the Atmosphere	<i>Frontispiece.</i>
Rainfall at Santiago from May to August and Nile Flood.....	<i>p.</i> 3
Rainfall of the Months of 1913 in the Thames Valley— <i>face p.</i> 13, 34, 48, 63, 87, 106, 125, 139, 166, 181, 213, 229	
Barometric Pressure in May at Stykkisholm and South Orkneys	<i>p.</i> 44
Waterspouts at the Chatham Islands	,, 51
Rainfall of January, 1913, in Ceylon (map).....	<i>face p.</i> 62
Temperature at Alice Springs and Cordoba	<i>p.</i> 82
Temperature at Perth (W. Australia), Santiago, and Valparaiso ..	,, 84
Rainfall at Malden Island and Temperature at Punta Arenas, May to August ..	,, 104
Rainfall Departure from Normal, 1876-1894, at Trinidad, W. Indies, and Ajo, Argentine Republic.....	,, 123
Rainfall in Scotland, West, and Temperature at St. Helena	,, 160
Temperature at St. Helena, and Pressure at Punta Arenas	,, 161
Temperature at St. Helena, and Rainfall at Mexico City.....	,, 162
Rainfall of September 17th, 1913 (map)..	<i>face p.</i> 180
Mean Temperature from May to August in South America	<i>p.</i> 202
Mean Temperature at Sydney, N S.W., and Rain at San Francisco	,, 204
Mean Temperature, South Orkneys and at Kimberley	,, 205
Pressure at the South Orkneys and Height of the Parana.....	,, 206