

## INDEX

	PAGE		PAGE
Aberdeen, new site for instruments at .....	287	Balloons, Lasting qualities of small rubber .....	65
—, Remarkable temperature record at .....	177	Bamford, A. J., Return of balloons in Ceylon .....	36
Absalom, H. W. L., Unusual thunderstorm phenomena .....	163	Banks, F. C., Meteor seen from Horndon-on-the-Hill .....	233
Aeronautical Society, Royal, Simms' gold medal .....	295	Barcombe, Waterspout at .....	99
Agricultural meteorological conference .....	218	Barnstaple, Thunderstorm at ...	186, 219
Air waves to great distances, Propagation of .....	229	Barograph, Dines float .....	282
Airship Mission, 1927, British ...	105	Barometer cisterns, Contamination of mercury in .....	181
Alpine cloud forms .....	90	Belasco, J. E., Contamination of mercury in barometer cisterns .....	181
Amundsen, R. ....	194	Belper, Fifty years' observations .....	117
Anderson, E. D. ....	171	Best, R. L., Unusual thunderstorm phenomena .....	137
Antiquaries and weather .....	9, 144	Bigg, W. H., Road mirages .....	138
Applegate, T. H., Waterspout seen near Cattewater .....	236	Bilham, E. G., Colours of pilot balloons .....	266
Arctic ice and British weather ...	214	—, Mock suns .....	235
Armagh, Thunderstorm at .....	186, 208	—, Suggestions for improving instruments .....	261
Ashmore, S. E., Iridescence on cirro-stratus cloud .....	211	Birds' Atlantic flight .....	141
—, Mock suns .....	235	Bletchley, Parhelia at .....	51
—, Parhelia observed at Hindhead .....	139	Blow, A. H., Thunderstorms at Cleethorpes .....	186
Askinazy, W. T. ....	75	Bonacina, L. C. W., May cold spell .....	114
Athènes, Annales de l'Observatoire National .....	145	Books received .....	51, 146, 243
Atlantic flight, Birds' .....	141	Botley, C. M., Folklore of storms .....	165
Atmospheric oscillations shown by the microbarograph .....	257	—, Weather lore of the Polyne-sians .....	262
Atmospherics, Present state of our knowledge of .....	228	—, Weather notes from a Floren-tine diary .....	92
Aurora off the coast of Ireland ...	284	Bowen, I. S., Heat losses from any water surface .....	63
Auroræ, Observations of .....	209	Bower, S. M., Aurora seen from Huddersfield .....	209
Austin, L. W., Radio atmospheric disturbances (review) .....	118	Brazilian daily weather reports ...	288
Aviation and clouds .....	8	Breton, R. S., Unusual thunderstorm phenomena .....	113, 135
Azores, Upper air observations in the .....	116	British Airship Mission, 1927.....	105
		— Association for the Advance-ment of Science .....	225
Ball lightning .....	234	— weather and Arctic ice .....	214
Balloon meteorographs, Certifica-tion of .....	281	Britton, C. E., Glazed frost.....	66
Balloons, Colours of pilot .....	266	Brooks, C. E. P., Arctic ice and British weather .....	214
—, in Ceylon, Return of .....	36		

	PAGE
Brooks, C. E. P., Long range weather forecasting .....	81
—, Our more equable climate .....	264
—, Periodicities in Nile floods ...	111
—, Physical factors of the historical process (review) .....	47
— and W. A. Quennell, Pressure deviations in western Europe .....	42
Browning, L. H. ....	170
Brunt, D., Energy of the winds (review) .....	73
—, Eos (review) .....	268
—, Harmonic analysis and periodogram investigations .....	111
—, Meteorology (review) .....	119
—, Radio atmospheric disturbances (review) .....	118
—, Remarkable hailstorm .....	14
—, Life of Sir Norman Lockyer ...	278
Bulletin de l'Observatoire de Talence .....	96
<i>Carnegie</i> , Seventh cruise of the... ..	156
Cattewater, Waterspout seen near .....	236
Ceylon, Return of balloons in .....	36
Chapman, S., Meteorology (review) .....	119
Chree, C. ....	171, 201
Chile, New meteorological service for .....	288
Cirrus at low levels .....	116
Clark, J. E., Halo phenomena ...	91
Clarke, G. A., Cirro-cumulus cloud .....	190, 219
—, Cloud and weather .....	230
Claye, H. S., Thunderstorm at Barnstaple .....	186, 219
Cleethorpes, Thunderstorm at .....	185
Climate, Change of .....	263
—, Our more equable .....	264
Climates, Guide book to the World's .....	271
— of the continents .....	98
Climatological Tables for the British Empire .....	monthly
Climatology, New Handbook of ...	277
Cloud and weather .....	230
— and wind at Malta .....	89
—, Annual variation of cirrus .....	66
—, Appearance of the sun and moon through a .....	285
— at Leysin .....	11
—, Cirro-cumulus, Dec. 8th, 1926 .....	190
— forms, Some Alpine .....	90
— vortex, Complete .....	212
Clouds, Visible distances of .....	241
— with special reference to the safety of aviation .....	8

	PAGE
Cold spell in May .....	93, 114
Commission for synoptic weather information, International .....	37, 153
Conference, Agricultural meteorological .....	218
Convection, Vertical visibility and .....	236
Corless, R., Brilliant halo phenomena .....	68
—, Evaporation and heat losses from water surfaces .....	63
—, Metropolitan Water Board, Twenty-second report (review) .....	193
—, Rainfall and farming in the Transvaal .....	40
—, Sideways mirage .....	15
Correlation coefficients, Significance of .....	12
Cranwell, Screen minimum temperatures at .....	20, 165
Crawford, F. E., Ball lightning ...	234
Crichton, J., Complete cloud vortex .....	212
—, Weather observations and aids to forecasting (review) .....	50
Cromer, Aurora seen from .....	210
Crowther, J. G., Science for you (review) .....	146
Crumph, W. B., Sea-spray and gales .....	184
Cummings, N. W., and B. Richardson, Evaporation from lakes .....	63
Curtis, J. A. ....	120
Cyclone track, An unusual .....	45
Cyclones, Temperature and humidity in occluded .....	6
Dansey, R. P., Wind in the mountains .....	91
Davos, Physical - meteorological observatory at .....	143
Dean, Growth of trees in the Forest of .....	29
Depressions in the North Atlantic, Formation of .....	256
Deserts, Meteorological conditions for .....	288
Dines, J. S., Pilot balloon reports from ships at sea .....	242
—, Unusual pressure distribution .....	68
—, Winds in the Forth Valley ...	33
Dines, L. H. G., Dines Float barograph .....	282
—, Lapse rates in polar and equatorial air .....	285
Distances of clouds, Visible .....	241
Dorno, Prof. C. ....	97

	PAGE		PAGE
Douglas, C. K. M., Appearance of the sun and moon through a cloud .....	285	Fog, London .....	38
—, Hot weather and thunderstorms .....	168	Folklore of storms .....	165
—, Some Alpine cloud forms .....	90	Forecasting, Long range weather .....	81
—, Temperature changes and wind structure .....	161	—, Weather observations and aids to .....	50
—, Veröffentlichungen des Forschungs-Institutes der Rhön-Rossiten Gesellschaft (review) .....	169	Forth valley, Winds in the .....	33
Durst, C. S., Remarkable temperature record at Aberdeen ...	177	Frost, Glazed .....	65
—, Visible distances of clouds ...	241	Gales, Transport of sea spray by .....	131, 184
Durward, J., Cirrus at low levels .....	116	Garbett, L. G., Great storms (review) .....	86
—, Pressure, temperature and wind variations at Heliopolis .....	57	Gibbett, M.A., Table cloth on Table Mountain .....	141
—, Renewal of muslin and wick on wet bulb thermometers .....	205	—, Wind structure research .....	228
		Gibson, W. J., Aurora seen from Waringstown .....	210
Easton, C., Les hivers dans l'Europe occidentale (review) .....	270	Gilbert and Ellice Islands, Hurricane at .....	140
Egypt, Meteorological observations in the eastern desert of .....	192	Glasspoole, J., Average and extreme seasonal rain .....	134
Electric potential gradient and thunderstorms .....	257	—, Average number of days with rain during each month .....	35
Ellice Islands, Hurricane at Gilbert and .....	140	—, Distribution of average seasonal rainfall over Europe ...	282
Ellison, W. F. A., Suggestions for improving instruments ...	258	—, La pluie en Belgique (review) .....	48
—, Thunderstorm at Armagh .....	186, 208	—, Rainfall, run-off and evaporation .....	70
Emmett, W. G., Sideways mirage .....	15	—, Rain makers .....	265
Entwistle, F., British Association for the Advancement of Science .....	225	—, Two centuries of rain .....	1
—, Simms' Gold Medal .....	295	—, 1928, Another wet year .....	288
Eos; or the wider aspects of cosmogony .....	268	Gold, E., Grass minimum temperatures .....	283
Epidemics and sunspots .....	266	—, International commission for synoptic weather information .....	153
Equatorial air, Lapse rates in ...	285	—, Wind at the level of a rain-gauge .....	39
Europe, Distribution of the seasonal rainfall over .....	282	Goldie, A. H. R., Magnetic storms .....	228
—, Gulf Stream and winter temperatures of .....	61	Grubb, L., G. and I., Meteorological phenomenon heard at Seskin .....	66
—, Persistence of pressure deviations in western .....	42	Guernsey, Cold weather of December at .....	10
Evaporation from lakes .....	63	Gulf stream and the winter temperature of Europe .....	61
— of sea water .....	232	Gustiness, Strong wind of small .....	90
—, rainfall and run-off .....	70	Hailstorm, Remarkable .....	14
Exhibit at the Royal Institution .....	69	Halo, Artificial .....	262
Expedition of the <i>Marion</i> .....	191, 217	— at Heyford, Solar .....	140
		—, Coloured solar .....	166
Fairgrieve, J., London fog, February 21st, 1928 .....	38	— phenomena .....	91
Floods of January 7th, Thames ...	17	— —, Brilliant .....	68
Florentine diary, Weather notes from a .....	92	—, Solar and lunar .....	234
		Harmonic analysis and periodogram investigations .....	111
		Heat losses from any water surface .....	63
		Height and screen temperatures .....	107, 264
		Heliopolis, Pressure, temperature and wind variations .....	57

	PAGE
Hergesell, H., Clouds and aviation .....	8
Heyford, Solar halo at .....	140
Hindhead, Parhelia observed at ...	139
Hindu meteorology, Ancient .....	164
Hoblyn, T. N., Statistical analysis of the temperature at Rotham- sted .....	90
Horndon-on-the-Hill, Meteor seen from .....	233
Horner, D. W., Change of climate	263
—, Mock suns .....	235
—, Weather observations and aids to forecasting (review) .....	50
Houston, Sir A., Metropolitan Water Board, Twenty-second report (review) .....	193
Huddersfield, Aurora seen from ...	209
Humidity in occluded cyclones.....	6
—, Simple formulæ for computing relative .....	161
Hurricane in Gilbert and Ellice Islands .....	140
—, West Indian .....	240
Ice and British weather, Arctic ...	214
India, Opening of new head- quarters in .....	187
Instruments at Aberdeen, New site for .....	287
—, Meteorological .....	118
—, Suggestions for improving ...	258
International commission for syn- optic weather information 37,	153
Iraq, High temperatures in .....	45
Ireland, Aurora off the coast of ...	284
Iridescence on cirro-stratus cloud	211
Isle of Wight, Waterspouts off the .....	237
Italian Year Book .....	271
Jeans, Sir J. H., Eos (review) ...	268
Jeffreys, H., Buchan Prize .....	283
Johnson, N. K., Atmospheric oscil- lations .....	257
—, Strong wind of small gusti- ness .....	90
Johnston, D. W., Aurora seen from Cromer .....	210
—, Physical-meteorological obser- vatory at Davos .....	143
July, 1928, Warm spell of .....	167
Kendrew, W. G., Climates of the continent .....	98
Lapse rates in polar and equa- torial air .....	285
Laysin, Cloud at .....	11
Lightning, Pearl necklace .....	117

	PAGE
Lightning, Phenomena preceding	162
Lindholm, F., Staubtrübung der Atmosphäre 1909 bis 1926 ...	97
Liverpool Observatory and Tidal Institute .....	287
Lockyer, Life of Sir Norman .....	278
London "tornado" .....	238
Lunar rainbow .....	262
Madagascar, Meteorological service of .....	37
Magnetic storms .....	228
Malmgren, F. A. E. J. ....	170
Malta, Studies of wind and cloud at .....	89
Margary, I. D., Meteorological facilities for the public .....	67
Mariolopoules, E. G. ....	295
Marion, Expedition of the ...	191, 217
May cold spell .....	93, 114
McAdie, Phenomena preceding lightning .....	162
Mémoires Patxot .....	268
Meteor seen from Horndon-on-the-Hill .....	233
Meteorographs, Certification of balloon .....	281
Meteorological agricultural conference .....	218
— conditions for deserts .....	288
— facilities for the public .....	67
— Headquarters, Opening of new Indian .....	187
— Institute, Polish .....	99
Meteorological Office, Annual Report .....	207
— —, Discussions 8, 63, 183, 207, 232, 257, 282	
— —, Shoeburyness staff dinner...	23
— —, Soirée .....	51
— phenomenon heard at Seskin ...	66
— service for Chile .....	288
— — of Madagascar .....	37
— Society, Royal 8, 35, 64, 90, 111, 160, 257, 282	
— — —, Buchan Prize .....	283
— — —, Memoirs .....	19
— units .....	69
Meteorology .....	119
—, Ancient Hindu .....	164
Metropolitan Water Board, Twenty-second annual report	193
Meyer, G. M., Weather and Anti-quaries .....	9
Mirage at sea .....	16
—, Sea and road .....	138
—, Sideways .....	15
Mirages, Road .....	16, 138

	PAGE		PAGE
Mirages, Sand .....	249	Ockenden, C. V., Sea spray in the rain gauge .....	137
Microbarograph, Atmospheric oscil- lations shown by the .....	257	Oddie, G. J. W., Aurora seen from Cromer .....	210
Mirrlees, S. T. A., Thames floods of January 7th .....	17	Official Notices..... 133, 183,	281
—, Transport of sea spray .....	131	— Publications .....	89, 207, 256
—, Unusual cyclone track .....	45	— — required .....	232
Mock-moons .....	39		
Mock-suns .....	235	Pace, H. L., Mirage at sea .....	16
Moon through a cloud, Appearance of the .....	285	Parallel weather sequences .....	291
Moore, W. L. ....	51	Parhelia observed at Bletchley ...	51
Mulholland, P. I., Fifty years' observations at Belper .....	117	— observed at Hindhead .....	139
Myrbach, O., Haben die Leoniden einen Einfluss auf das Wetter (review) .....	169	Parhelion of 120°, Brilliant .....	112
—, Wirbelströme und Sonnen- flecken (review) .....	169	Paton, J., and W. H. Pick, Screen minimum temperatures during radiation nights .....	20, 165
		—, Visibility and convection .....	236
Nagle, A. H., Exhibit at the Royal Institution .....	69	Patxot Mémoires .....	268
Nephoscopes, Upper winds deduced from .....	187	Periodicities in Nile floods .....	111
Newnham, E. V., Temperature and humidity in occluded cyclones .....	6	Periodicity and European weather Periodogram investigations .....	111
—, Training for observers .....	218	Phenological observations, British Isles, 1927, Report on the ...	160
—, West Indian hurricane .....	240	Physical factors of the historical process .....	47
Newton, H. W., Sun's cycle of activity .....	64	— meteorological observatory at Davos .....	143
Nolan, J. J., Mechanism of thun- derstorms .....	227	Pick, W. H., Light winds and quick fall of pressure .....	185
Nordenskjöld, O. ....	122	—, Minimum temperatures on radiation nights .....	211
North Atlantic, Formation of depressions in the .....	256	—, Surface wind and day hori- zontal visibility .....	114
		—, Warm spell of July, 1928 .....	167
		— and J. Paton, Screen minimum temperatures .....	20, 165
OBITUARY: —		— —, Visibility and convection .....	236
Amundsen, Capt. R. ....	194	— and G. A. Wright, Annual variation of cirrus cloud .....	66
Anderson, Miss E. D. ....	171	Pilot balloon reports from ships at sea .....	242
Askinazy, Prof. W. T. ....	75	Pilot balloons, Colours of .....	266
Browning, Flight-Lient. L. H. ....	170	Pinner, Thunderstorm at .....	186
Chree, Dr. C. ....	171, 201	Plummer, W. E. ....	122
Curtis, J. A. ....	120	Polar air, Lapse rate in .....	285
Malmgren, Dr. F. A. E. J. ...	170	— flight of Capt. Sir G. H. Wilkins .....	129
Moore, Prof. W. L. ....	51	Polynesians, Weather lore of the Poona, New headquarters of meteorological department of India at .....	262
Nordenskjöld, Prof. O. ....	122		187
Plummer, W. E. ....	122	Poulter, R. M., Simple formulæ for computing relative humi- dity .....	161
Strachey, Lady .....	295	—, Unusual thunderstorm pheno- mena .....	137
Watt, A. ....	295	Powers, L. H., May cold spell ...	93
Watzof, S. ....	51	Pressure, Abnormally low .....	195
Observers, Course of training for .....	133, 218		
Observations at St. Kilda, Meteorological .....	22		
— in the eastern desert of Egypt, Meteorological .....	192		
Observatory at Davos.....	143		
— for Yugoslavia, New .....	37		

	PAGE		PAGE
Pressure deviations in western Europe, Persistence of .....	42	Crowther, J. G.—Science for you .....	146
— distribution, Unusual .....	68	Easton, C.—Les hivers dans l'Europe occidentale .....	270
—, Light winds and quick fall of .....	185	Hedden, V. and C. Laughton—Great Storms; L. G. Garbett .....	86
—, Unusually low .....	268	Horner, D. W.—Weather observations and aids to forecasting; J. Crichton .....	50
— variations at Heliopolis .....	57	Jeans, Sir J. H.—Eos; D. Brunt .....	268
Propagation of air waves to great distances .....	229	Journal of State medicine, Vol. 36, No. 5 .....	143
Quennell, W. A., Parallel weather sequences .....	291	Kendrew, W. G.—Climates of the Continents .....	98
—, and C. E. P. Brooks, Pressure deviations in western Europe .....	42	Koenig, M.—Cyclone of Feb. 24th to March 3rd, 1927; S. T. A. Mirrlees .....	45
Radiation from the sky .....	21	Laughton, C. and V. Heddon—Great Storms; L. G. Garbett .....	86
— nights, Minimum temperatures on .....	211	Lindholm, F.—Staubtrübung der Atmosphäre 1909 bis 1926 ...	97
Radio-atmospheric disturbances ...	118	Lockyer, T. M. and W. L. Lockyer—Life and work of Sir Norman Lockyer; D. Brunt .....	273
Rain during each month, Average number of days with .....	35	Markes, P. L.—Thermometric conversion chart .....	47
— gauge, Sea spray in the .....	137	Myrbach, O.—Wirbelstürme und Sonnenflecken .....	169
—, Wind at the level of a .....	39	Ryd, V. H.—Energy of the winds; D. Brunt .....	73
— in Belgium, Distribution of ...	48	Talence, Bulletin de l'Observatoire .....	96
— makers .....	265	Tchijevsky, A.—Physical factors of the historical process; C. E. P. Brooks .....	47
—, Two centuries of .....	1	—, Die periodische Tätigkeit der Sonne und die Cholera-und Grippe Epidemien ...	266
Rainbow, Lunar .....	262	Transvaal University Bulletin, No. 12; R. Corless .....	40
—, Pink .....	234	Vanderlinden, E.—La distribution de la pluie en Belgique; J. Glasspoole .....	48
Rainfall and farming in the Transvaal .....	40	Veröffentlichungen des Forschungs-Institutes der Rhön-Rossiten Gesellschaft .....	169
—, Growth of trees in the Forest of Dean and .....	29	Wallén, A.—Eau tombé, débit et évaporation dans la Suède méridionale; J. Glasspoole ...	70
— of 1928 .....	288	Ward, R. de C.—Proposed guide book to the world's weather and climates .....	271
— over Europe, Distribution of the average seasonal .....	282	Rhön-Rossiten Gesellschaft, Publications of the Research Institute of the .....	169
— over the British Isles, Average and extreme seasonal .....	134	Richardson, B. and N. W. Cummings, Evaporation from lakes .....	63
—, run-off and evaporation .....	70		
— Tables for 1928 .....	monthly		
—, 1928, General distribution...monthly			
Read, R. S., Evaporation of sea-water .....	232		
—, Transpolar flight of Capt. Sir G. H. Wilkins .....	129		
Reshabar, Rushabar or Rrashaba .....	265		
Reviews :—			
Annales de l'Observatoire National d'Athènes .....	145		
Annali del R. Ufficio Centrale di Meteorologia e Geofisica Italiano .....	271		
Austin, L. W.—Present status of radio atmospheric disturbances; D. Brunt .....	118		
Brunt, D.—Meteorology; S. Chapman .....	119		
Catalogue of instruments. by C. F. Casella & Co. ....	118		

	PAGE
Richardson, L. F., Variance of upper wind and the accumulation of mass .....	35
Rogers, H. A., Sea and road mirage .....	138
Rothamsted, Statistical analysis of temperature at .....	90
Rowswell, B. T., Cold weather of December at Guernsey .....	10
Royal Institution, Exhibit at the Russell, S. C., Pink rainbow; solar and lunar halo .....	69
Rutherford, E. C., Storm of February 10th .....	234
Ryd, V. H., Energy of the winds (review) .....	36
	73
St. Kilda, Meteorological observations at .....	22
Salonica University, Chair of Meteorology at .....	295
Sand Mirages .....	249
Sawyer, L. D., Formation of depressions .....	256
Schonland, B. F. J., Mechanism of thunderstorms .....	227
Science for you .....	146
Sea and atmosphere, Thermal intercourse between the .....	232
— spray by gales, Transport of .....	131
— in the rain gauge .....	137
— water, Evaporation of .....	232
Sellick, N. P., Unusual thunderstorm phenomena .....	284
Sen, S. N., Ancient Hindu meteorology .....	164
Seskin, Feb. 8th, 1928, Meteorological phenomenon heard at .....	66
Shaw, J. J., Cloud at Laysin .....	11
Shell burst methods, Upper winds deduced from .....	187
Ships at sea, Pilot balloon reports from .....	242
Shoulejkin, W., Evaporation of sea-water .....	232
Simms' Gold Medal .....	295
Simpson, G. C., Mechanism of thunderstorms .....	225
Smith, N. H., Solar halo at Heyford .....	140
South Georgia, New wireless station at .....	93
Southend-on-Sea, Squall at .....	209
Stenhouse, R. H., Aurora off the coast of Ireland .....	284
Storm of February 10th .....	36
Storms, Folklore of .....	165
—, Great .....	86
—, Magnetic .....	228
Strachey, Lady .....	295

	PAGE
Sun through a cloud, Appearance of the .....	285
Sun's cycle of activity .....	64
Sunspots and Epidemics .....	266
— — hot weather .....	195
— — waterspouts .....	169
Sutcliffe, R. C., Renewal of wick and muslin of a wet-bulb thermometer .....	142
Sutton, L. J., Wet bulb thermometers .....	262
Sutton, O. G., Squall at Southend-on-Sea .....	209
Synoptic weather information, International Commission for .....	37, 153
"Table Cloth" on Table Mountain .....	141
Talence, Bulletin de l'Observatoire de .....	96
Tchijevsky, A., Physical factors of the historical process (review) .....	47
Temperature changes and wind structure in the upper atmosphere .....	161
— in occluded cyclones .....	6
— of Europe, Gulf Stream and winter .....	61
— record at Aberdeen, Remarkable .....	177
— variations at Heliopolis .....	57
Temperatures, Screen minimum 20, .....	165
—, Effects of height and situation on screen .....	107, 264
—, Grass minimum .....	283
— in 'Iraq, High .....	45
— on radiation nights .....	211
Thermometer, Renewal of wick and muslin of a wet bulb .....	142, 205
Thermometers at Rothamsted .....	90
—, Experiments with wet bulb .....	253
—, Wet bulb .....	262
Thermometric chart .....	47
Thomson, A., Lasting qualities of small rubber balloons .....	65
Thorpe, E., Thunderstorm at Pinner .....	186
Thunderstorm at Armagh, Remarkable .....	186, 208
— phenomena, Unusual 113, 135, 163, .....	284
Thunderstorms and electric potential gradient .....	257
— during August .....	185
—, Hot weather and .....	168
—, Mechanism of .....	225
"Tornado," London .....	238
Training for observers, Course of .....	133, 218

	PAGE
Transvaal, Rainfall and farming in .....	40
Upper air observations in the Azores .....	116
Vanderlinden, E., Pluie en Belgique (review) .....	48
Vedy, L. G., Coloured solar halo .....	166
—, Sand mirages .....	249
Visibility and convection, Vertical .....	236
—, Surface wind and day horizontal .....	114
Vortex, Complete cloud .....	212
Wadsworth, J., Wind and cloud at Malta .....	89
Walker, Sir G. T., New handbook of Climatology .....	277
—, Periodicity and European weather .....	111
—, World weather .....	9
Walters, A., Gulf Stream and the winter temperature of Europe .....	61
Ward, R. de C., Proposed guide book to the world's weather and climate .....	271
Waringstown, Aurora seen from .....	210
Warm spell of July, 1928 .....	167
Water Engineers, Institution of... ..	133
Waterspout at Barcombe .....	99
— seen near Cattewater .....	236
Waterspouts and sunspots .....	169
— off the Isle of Wight .....	237
Watson, R. E., Seventh cruise of the <i>Carnegie</i> .....	156
Watt, A. ....	295
Watt, R. A. W., Atmospherics ... ..	228
—, Mechanism of Thunderstorms .....	227
Watzof, S. ....	51
Weather and Antiquaries .....	9, 144
— — Arctic ice .....	214
— — cloud .....	230
—, Influence of Leonides on the .....	169
— Lore .....	243
— of the Polynesians .....	262
— notes from a Florentine Diary .....	92
— of December at Guernsey, Cold .....	10
— of 1928 .....	monthly
—, Proposed guide book to the World's .....	271
— reports, Brazilian daily .....	288

	PAGE
Weather sequences, Parallel .....	291
West Indian Hurricanes .....	240
Wet-bulb thermometer, Renewal of wick and muslin on a ... ..	142, 205
— — thermometers .....	253, 262
Wetter, Das .....	72
Whipple, F. J. W. ....	51
—, Brilliant parhelion of 120° ... ..	112
—, Electric potential gradient and thunderstorms .....	257
—, Experiments with wet-bulb thermometers .....	253
—, Obituary of Dr. Chree .....	201
—, Propagation of air waves to great distances .....	229
—, Significance of correlation coefficients .....	12
Wight, Waterspouts off the Isle of Wilkins, Capt. Sir G. H., Transpolar flight .....	129
Willis, K. G., Lunar rainbow, artificial halo .....	262
Wilson, C. T. R., Mechanism of thunderstorms .....	226
Wind and cloud at Malta .....	89
— — day horizontal visibility ... ..	114
— — the accumulation of mass, Variance of upper .....	35
— at the level of a rain gauge ... ..	39
— in the mountains .....	91
— of small gustiness, Strong .....	90
— structure in the upper atmosphere .....	161
— — research .....	228
— variations at Heliopolis .....	57
Winds and quick fall of pressure, Light .....	185
— deduced from observations with nephoscopes and shell bursts .....	187
—, Energy of the .....	73
— in the Forth Valley .....	33
Winters in western Europe .....	270
Wireless station at South Georgia, New .....	93
World weather .....	9
Wright, G. A., and W. H. Pick, Annual variation of cirrus cloud .....	66

Yugoslavia, New observatory for .....	37
---------------------------------------	----

## CORRIGENDUM

p. 89.

## ERRATA

p. 219.



## ILLUSTRATIONS

La mer des mirages avec les Dents du Midi, Leysin, Dec., 1927 .....	<i>Frontispiece</i>
General rainfall, England, decadal means, 1730 to 1919 .....	5
Occluded cyclone .....	6
Structure of the upper air, Brussels, 8h., July 2nd, 1924 .....	7
Sideways mirage .....	15
Growth of trees and rainfall .....	30
Wind frequency curves .....	33, 34
London fog, February 21st, 1928 .....	38
Pressure deviations in western Europe .....	43
Synoptic chart, Egypt, 6h., February 1st, 1928 .....	58
Thermogram and hygrogram, Heliopolis .....	58
Autographic records, Egypt .....	59
Thermograms, Egypt .....	60
Temperature isanomalies, northwestern Europe .....	61
Unusual pressure distribution .....	68
Kew daily mean temperature .....	95
" Table cloth " on Table Mountain .....	<i>facing p.</i> 129
Cirro-cumulus cloud, Aberdeen, December 8th, 1926 .....	<i>facing p.</i> 177
Schematic diagram, Aberdeen, December 12th, 1913 .....	179
Autographic records, Aberdeen, December 12th, 1913 .....	180
Frequency of different errors in nephoscope winds .....	188
Hailstorm at Armagh, August 29th, 1928 .....	<i>facing p.</i> 201
Contant-level container for use with wet-bulb thermometer .....	205
Synoptic chart, 13h., September 18th, 1928, and diagram of cloud vortex .....	212
Correlation coefficients, Ice index figures and pressure .....	216
Visible distances of clouds .....	241
Sand mirages .....	251
Pressure anomalies .....	293