

INDEX

- | | PAGE | | PAGE |
|---|----------|---|------|
| Aanensen, C. J. M., An observation of the end of a water-spout | 235 | Berry, A. W., Noteworthy cloud formation at Hythe, Kent .. | 212 |
| Aircraft, Dissipation of cloud by, at West Freugh, Stranraer .. | 293 | Best, A. C., Some variations of temperature | 167 |
| Alto cumululus-castellatus cloud observed in a polar current .. | 282 | Best climate in the world, The .. | 208 |
| Amateur forecaster, The | 225 | —————, a reply | 209 |
| America, Forest fires in, and their effect on the weather | 72 | BIBLIOGRAPHIES— | |
| Anemometer, The first pressure-tube | 148, 264 | Atmospheric electricity | 136 |
| Anomaly in atmospheric electricity, An | 48 | Climatic changes | 71 |
| Arakawa, H., Height calculation from the emagram (<i>illus.</i>) 111, | 305 | Some variations of temperature | 172 |
| Ashbel, D., <i>See under Met. Soc.</i> | | The composition of the atmosphere through the ages .. | 39 |
| Ashmore, S. E., Lunar rainbows | 294 | The effect of strong gales on foliage | 262 |
| River temperatures | 147 | The film as a meteorological instrument | 6 |
| —, The effect of strong gales on foliage | 257 | Bishop, B. V., Dissipation of cloud by aircraft at West Freugh, Stranraer | 298 |
| Astronomer Royal, <i>See Jones, H. Spencer.</i> | | Bonacina, L. C. W., The best climate in the world, a reply | 209 |
| Atmosphere, Condensation and precipitation in the | 161 | —, The snowfalls of December and January, 1938-39 .. | 48 |
| —, The composition of the, through the ages | 33 | Botley, C. M., A double rainbow Mirage in Cardigan Bay .. | 214 |
| —, The evolution of the earth's .. | 7 | Boyd, D. A. <i>See under Met. Soc.</i> | |
| —, The lunar tide in the | 273 | Boyden, C. J. <i>See under Reviews.</i> | |
| Atmospheric electricity | 129 | Brierley, J. M., The aurora of August 11th, 1939, at South Petherton | 268 |
| —, An anomaly in | 48 | —, Thunderstorm of July 21st, 1939, at South Petherton .. | 199 |
| —, turbulence | 97 | Britain, Largest annual total of sunshine in | 295 |
| Aurora Borealis of 1716, The great | 56 | British Empire. <i>See under Climatological Tables.</i> | |
| Auroral display on November 4th, 1322 | 268 | British Isles. <i>See under Rainfall Tables.</i> | |
| —, notes for February, 1939 .. | 34 | Britton, C. E., Auroral display on November 4th, 1322 | 268 |
| ————, April, 1939 | 150 | —, December frosts in early days (1141, 1241, and 1269) .. | 283 |
| ————, August, 1939 | 267 | —, Early records of winter thunderstorms (1149, 1258, 1283 and 1791) | 302 |
| ————, October, 1939 | 299 | —, Easter weather in 1284 | 89 |
| Balloon, A pilot, returns to its starting point | 295 | —, Floods at Canterbury in September, 1271 | 239 |
| Balloons, pilot, Light sources for | 82 | —, Floods in the Tyne on August 12th, 1339 | 217 |
| Barnett, Dr. M. A. F. | 213 | | |
| Barometric reading, Low, January 15th, 1939 | 24 | | |
| Bavaria, Magnetic observations in | 150 | | |
| Benwell, G. R., Rainfall in Surrey | 239 | | |

	PAGE		PAGE
Britton, C. E., Remarkable drought in the Thames Valley on October 10th, 1114 ..	245	Chiltern Hills, The winter's snow-fall in the, ..	113
—, Severe thunderstorms on May 19th, 1251 ..	119	Chrystie, The late Col. George, The rainfall at Short Heath Lodge, Farnham, Surrey, 1899—1938, maintained by ..	173
—, Severe thunderstorms with heavy rain on June 19th, 1256 ..	151	Circumzenithal arc at Wittering, Northants ..	145
—, The great Aurora Borealis of 1716 ..	56	Cirriform clouds observed in Southern Rhodesia ..	146
—, The Thames floods of 1774 ..	57	Cirrus cloud, Tufted ..	233
—, Very severe thunderstorm with large hail on July 28th, 1205 ..	217	Climate, The best in the world ..	208
—, "Windy Tuesday," February 18th, 1662 ..	22	—, ————— a reply ..	209
Brooks, C. E. P., Climatic changes ..	65	Climatic changes ..	65
—, The dewpond "myth" (review) ..	181	Climatological stations, New 90, 213, 301 ..	301
—, The drama of weather (review) ..	200	—, Table for the British Empire, August, 1938— June, 1939 <i>monthly</i> ..	190
<i>See also under Reviews.</i>		— — — — — Reference table ..	40
Brown, A. Hampton, The rainfall at Short Heath Lodge, Farnham, Surrey, 1899—1938, maintained by the late Col. George Chrystie ..	173	Climatology and forecasting ..	40
—, Terrestrial radiation in May, 1939 ..	178	Cloud, Altocumulus - castellatus observed in a polar current ..	282
Brunt, Prof. D. ..	91	—, Cumulus, formed by smoke column ..	117
		—, Dissipation of, by aircraft at West Freugh, Stranraer ..	298
Callendar, G. S., The best climate in the world ..	208	— formation, Noteworthy, at Hythe, Kent ..	212
—, The composition of the atmosphere through the ages (<i>illus.</i>) ..	33	— heights, Determination of ..	202
Canterbury, Floods at, in September, 1271 ..	239	—, Mammatus, and mirage ..	263
—, Preston, heavy rainfall at, October, 1939 ..	297	—, Tufted cirrus ..	233
Cardigan Bay, Mirage in ..	214	—, Upward discharge of lightning from ..	178
Carter, H. E., Auroral notes for February, 1939 ..	54	Cloud-bow; An unusual ..	51
—, — — — October, 1939 ..	299	Cloud - pendant observed in Northern Ireland, A ..	214
—, Meteorology at the R.A.F. Exhibition in Edinburgh (<i>illus.</i>) ..	87	Clouds, Cirriform, observed in Southern Rhodesia ..	146
—, Photograph by, (<i>facing</i>) ..	87	Composition of the atmosphere through the ages, The ..	33
—, Severe thunderstorm at Troon on July 15th, 1939 ..	238	Condensation and precipitation in the atmosphere ..	161
Cause and affect ..	106	Constant level water apparatus for wet-bulb hygrometers, A 242, 305 ..	305
Cave, C. J. P., Unusual electrical discharge at Wellington ..	207	Carless, R., Mr. J. S. Dines (<i>illus.</i>) ..	180
—, Upward discharge of lightning from cloud ..	178	Coutts, H. H., The effect of strong gales on foliage ..	293
Champion, D. L., Snowfall and streamflow (<i>illus.</i>) ..	20	Cowper, J. E., Heavy rainfall at Shanklin, October and November, 1939 ..	298
Chapman, S., The lunar tide in the atmosphere (<i>illus.</i>) ..	273	—, Sunshine in 1911 ..	268
		Crossley, A. F., Cause and effect ..	106
		Cumulus cloud formed by smoke column ..	117
		Davie, G. B., Lunar rainbows ..	110
		Davies, D. A., Lunar rainbows in the west of Ireland ..	45

	PAGE		PAGE
Day, W. R. <i>See under Met. Soc.</i>		1339, August 12th, Floods in the Tyne on	217
December frosts in early days (1141, 1241 and 1269)	283	1662, February 18th, "Windy Tuesday"	22
Depths of snow lying at Notting- ham	214	1716, March 6th, The great Aurora Borealis of	56
Determination of cloud heights..	202	1774, March, The Thames floods of	57
Dewpond "myth," The.. ..	181	1791. <i>See under 1149.</i>	
Dines, J. S.	180	Eastbourne, Meteorology at ..	240
—, The first pressure-tube anemometer	148, 264	Easter weather in 1284	89
Dissipation of cloud by aircraft at West Freugh, Stranraer	298	Edinburgh, Meteorology at the R.A.F. Exhibition in	87
Dixon, F. E., Auroral notes for October, 1939	299	Edmundson, C., An unusual cloud-bow	51
—, Mammatus cloud and mirage	263	Effect, Cause and	106
Douglas, C. K. M., A July frost in Herts	207	— of strong gales on foliage, The	257, 293
—, A thundery spell in July, 1939, and some previous thundery periods	193	— of wind on the temperature of a thermometer	210
—, Frost and snow in December and January, 1938-39 (<i>illus.</i>)	12	Electrical discharge at Welling- ton, An unusual	185, 207
—, Note on altocumulus-castella- tus clouds	282	Electricity, atmospheric	129
Drama of weather, The	200	—, —, An anomaly in	48
Drought, Remarkable, in the Thames Valley on October 10th, 1114	245	—, Terrestrial magnetism and ..	289
Droughts and dry spells of August and September, 1939, The ..	265	Emagram, Height calculation from the	111, 305
Dyson, J. H., Heavy rainfall at Preston, Canterbury, Octo- ber, 1939	297	Engineering and meteorology ..	216
EARLY METEOROLOGICAL RECORDS—		Evolution of the earth's atmo- sphere, The	7
1114, October 10th, Remark- able drought in the Thames Valley on	245	Farnborough, Hants, Hail scores fences at	297
1141, 1241 and 1269, December frosts in early days	283	Farnham, Surrey, Short Heath Lodge, The rainfall at, 1899- 1938, maintained by the late Col. George Chrystie	173
1149, 1258, 1283 and 1791. Early records of winter thunderstorms	302	Farquharson, J. S., The film as a meteorological instrument (<i>illus.</i>)	2
1205, July 28th, Very severe thunderstorm with large hail on	217	<i>See also under Met. Soc. and under Reviews.</i>	
1241. <i>See under 1141.</i>		Film as a meteorological instru- ment, The	2, 50
1251, May 19th, Severe thun- derstorms on	119	Firesah, A. M. <i>See under Met. Soc.</i>	
1256, June 19th, Severe thun- derstorms with heavy rain on	151	Floods at Canterbury in Sep- tember, 1271	239
1258. <i>See under 1149.</i>		— in the Tyne on August 12th, 1339	217
1269. <i>See under 1141.</i>		—, The Thames, of 1774	57
1271, September, Floods at Canterbury in	239	Flower, W. D., A constant level water apparatus for wet bulb hygrometers (<i>illus.</i>)	242, 305
1283. <i>See under 1149.</i>		Fog, A ground, August 27th, 1938	302
1284, Easter weather in	89	Foliage, The effect of strong gales on	257, 293
1322, November 4th, Auroral display on	268	Forecaster, The amateur	225

	PAGE		PAGE
Forecasting, Climatology and ..	40	Harrison, D. N., Light sources for pilot balloons	82
Forest fires in America and their effect on the weather ..	72	—, Radiometric scales	104
Foreword (to Feb. number) ..	1	Harrower, T. N. S., A ground fog, August 27th, 1938 (<i>illus.</i>) ..	302
— to (Sept.—Oct. number) ..	225	Hawke, E. L., A July frost in Herts.	205
Forster, H., Thunderstorm of July 16th, 1939, at Tern Hill	199	—, Largest annual total of sunshine in Britain	295
Fox, R. Fortescue.		—, The winter's snowfall in the Chiltern Hills	113
<i>See under Reviews.</i>		Heavy rain, Severe thunderstorm on June 19th, 1256	151
Frogs, A shower of	184	— rainfall at Preston, Canterbury, October, 1939 ..	297
Frost, A July, in Herts	205	— — — Shanklin, October and November, 1939	298
— and snow in December and January, 1938-39	12	Height calculation from the emagram	111, 305
Frosts, December, in early days (1141, 1241 and 1269) ..	283	Hellmann, Professor Gustav (<i>obituary</i>)	80
Gales, strong, The effect of, on foliage	257, 293	Herts, A July frost in	205
Glasspoole, J., Meteorology at Eastbourne	240	High-altitude records from the Northern Pennines, 1938-39	114
—, The rainfall of 1939	291	Hogg, W. H., The droughts and dry spells of August and September, 1939	265
Gold E., Determination of cloud heights (<i>illus.</i>)	202	Hygrometers, wet bulb, A constant level water apparatus for	242, 305
—, The weather cock	282	Hythe, Kent, Noteworthy cloud formation at	212
<i>See also under Met. Soc.</i>		Iraq. <i>See under Habbaniya.</i>	
Goldie, Dr. A. H. R. (<i>illus.</i>) ..	86	Ireland, Northern, A cloud pendant observed in ..	214
Goldie, A. H. R., Dr. R. A. Sampson F.R.S. (<i>obituary</i>)..	284	—, west of, Lunar rainbows in the International Union for Geodesy and Geophysics, Presidential Address. (<i>See "Lunar Tide in the atmosphere, The."</i>)	45
Goodliffe, F. A., Photographs by <i>facings</i>	4, 5	Japan, Mountain meteorologists in	25
Gordon, A. H., Forest fires in America and their effect on the weather (<i>illus.</i>)	72	Johnson, N. K., Foreword ..	1
Gordon, Seton, Auroral notes for October, 1939	300	Jones, H. Spencer, The evolution of the earth's atmosphere ..	7
"Gradient winds," On	19	July frost in Herts, A	205
Ground fog, A, August 27th, 1938	302	Keen, B. A. <i>See under Met. Soc.</i>	
Habbaniya, Iraq, Prediction of minimum temperatures at ..	234	Kew Observatory, Daily readings at (January to July, 1939) <i>Monthly</i>	
Hail, large, Very severe thunderstorms with, on July 28th, 1205	217	— —, Meteorological tables ..	26
—, scores fences at Farnborough, Hants	297	— —, Temperature (<i>with monthly sunshine data</i>) .. <i>Monthly</i>	
Halo, A lunar	22	Kidson, Dr. Edward (<i>Obituary</i>)..	176
—, —, observed on February, 28th, 1939	85		
— phenomenon, A rare, March 31st, 1939	109		
Hamilton, D. K. G., and Simpson, A., Auroral notes for February, 1939	55		
Hamilton, R. A. <i>See under Met. Soc.</i>			
Harrison, D. N., Auroral notes for April, 1939	150		

	PAGE		PAGE
Lamb, H. H., A fine sun-pillar, March 8th, 1939	84	Day, W. R., Local climate and the growth of trees, with special reference to frost ..	89
—, Auroral notes for October, 1939	299	Farquharson, J. S., The diurnal variation of wind over tropical Africa	53
Largest annual total of sunshine in Britain	295	Fuisah, A. M., The distribution of wet-bulb potential temperature in four selected cyclones	149
Lawrence, O. H., Photograph by <i>facings</i>	76	Gold, E., A practical method of determining the visibility number V at night	53
Lewis, L. F. <i>See under Met. Soc.</i>		Hamilton, R. A., High altitude ozone measurements	89
Light sources for pilot balloons ..	82	Keen, B. A., What happens to the rain	25
Lightning, Upward discharge of, from cloud	178	Lewis, L. F., The seasonal and geographical distribution of absolute drought in England	149
Lloyd, D. <i>See under Met. Soc.</i>		Lloyd, D., Evaporation over catchment areas	149
Low barometric reading, January 15th, 1939	24	Pollak, L. W., A new theodolite for following fast-moving objects, especially for making pilot balloon observations of greater accuracy	183
Lunar halo, A	22	Salisbury, E. J., Ecological aspects of meteorology ..	118
— —, observed on February 23th, 1939	85	Wright, H. L., The nature of atmospheric opacity: a study of visibility observations in the British Isles ..	183
— rainbows	110, 210, 294	Meteorological Society, Election of president for 1939 (Dr. B. A. Keen)	24
— in the west of Ireland ..	45	— —, Howard Prize, 1939 ..	184
— tide in the atmosphere, The ..	273	— —, Phenological report ..	119
		— —, Symons Gold Medal, 1940 ..	301
Macdonald, G. G., Predictions of minimum temperatures at Habbaniya, Iraq	234	— —, Memorial Lecture ..	118
Magnetic observations in Bavaria	150	Meteorologists, Mountain, in Japan	25
Magnetism, Terrestrial, and electricity	289	Meteorology at Eastbourne ..	240
Mammatus cloud and mirage ..	263	— at the R.A.F. Exhibition in Edinburgh	87
Manley, G., High altitude records from the Northern Pennines, 1938-39	114	—, Engineering and	216
—, Range of temperature in June, 1939	179	—, Theoretical	229
Mariolopoulos, Prof. Dr. E. G. ..	300	Mill, H. R., Professor Gustav Hellman (<i>obituary</i>)	80
Mason, D. C., A lunar halo observed on February 28th, 1939	85	Minimum temperatures at Habbaniya, Iraq, Prediction of ..	234
Meteorological instrument, The film as a	2, 50	Mirage in Cardigan Bay	214
— Office, Retirement of Dr. F. J. W. Whipple	85	—, Mammatus cloud and	263
— —, Shoeburyness	57	Mirrlees, S. T. A., Climatology and forecasting (<i>illus.</i>)	40
— records. <i>See under Early Meteorological records.</i>		Monger, J., Altocumulus-castellatus cloud observed in a polar current	282
— stations, New climatological ..	90, 213, 301		
— tables, Kew Observatory ..	26		
METEOROLOGICAL SOCIETY,			
ABSTRACTS OF PAPERS—			
Ashbel, D., The influence of the Dead Sea on the climate of its neighbourhood	88		
Boyd, D. A., Correlation between monthly rainfall at eleven stations in the British Isles	183		

	PAGE
Remarkable drought in the Thames Valley on October 11th, 1114	245
— pressure fluctuation in the Vale of York	137
REVIEWS—	
Admiralty Weather Manual— <i>See under H.M. Stationery Office.</i>	
Bhatia, K. L.— <i>See under Rao, P. R. Krishna.</i>	
Branco, Hugo de Lacerda Castelo—The Climate of Madeira, with a Comparative Study; R. Fortescue Fox	219
British Health Resorts Association—Official Handbook, 1939	154
Brunt, D. — Physical and dynamical meteorology; R. C. Sutcliffe	229
Fleming, J. A.—Physics of the Earth. VIII. Terrestrial magnetism and electricity (<i>edited by</i>); Sir George Simpson	289
H.M. Stationery Office—Admiralty Weather Manual; C.E.P.B.	120
Haurwitz, B.— <i>See under Namias, J.</i>	249
Herchenroder, M.—Air temperature and humidity data at Mauritius, 1876–1935; J. Wadsworth	303
Heron-Maxwell, Naomi.— <i>See under Hirth, W.</i>	247
Hirth, Wolf (<i>trans. by N. Heron-Maxwell</i>)—The art of soaring flight; G.T.W.	247
India Met. Dept.—Meteorological organisation for airmen; J.S.F.	155
India Met. Dept.—Normal monthly percentage frequencies of surface and upper winds up to 3 km. at Allahabad, etc.; R. G. Veryard	91
Lettau, Heinz.—Atmosphärische Turbulenz; O. G. Sutton	97
McCurdy, N. R.—The cyclone season, 1935–36 and 1936–37; J. Wadsworth	246

	PAGE
Namias, Jerome.—An introduction to the study of air mass analysis (including also papers by H. C. Willett and B. Haurwitz); C. J. Boyden	249
Paris: Office Met. Nat.—Bibliographie Météorologique Internationale, Tome V	250
Pugsley, Alfred J.—Dewponds in fable and fact; C.E.P.B.	181
Raman, P. K.—India Met. Dept. Memoir. Vol. 26, Part 8	26
Rao, P. R. Krishna, and Bhalia, K. L.—Temperatures and humidities up to 3 km. over Karachi; R. G. Veryard	218
Shaw, Sir Napier, The drama of weather; C.E.P.B.	200
Taylor, G. F., Aeronautical meteorology; R.C. Sutcliffe	122
Venkiteshwaran, S. P., Daily variations of temperature and pressure at different levels over Agra, associated with passage of western disturbances; R. G. Veryard	59
Willett, H. C. <i>See under Namias J.</i>	249
Worthington, E. B., Science in Africa; C. E. P. Brooks	27
Rhodesia, Southern, Ciriform clouds observed in	146
River temperatures	147
Royal Air Force Exhibition at Edinburgh, Meteorology at the	87
— Meteorological Society. <i>See under Meteorological Society.</i>	
Salisbury, E. J. <i>See under Met. Soc.</i>	
Satow, P. G., A pilot balloon returns to its starting point	295
Scales, Radiometric	104
Scotland, New climatological stations in	301
Scrase, F. J.	53
—, Condensation and precipitation in the atmosphere	161
Severe thunderstorm at Troon on July 15th, 1939	238
— —, Very, with large hail on July 28th, 1205	217

	PAGE		PAGE
Severe thunderstorms on May 19th, 1251	119	Temperature, Kew, with difference from average (<i>with sunshine tables</i>)	<i>monthly</i>
— — with heavy rain on June 19th, 1256	151	— of a thermometer, Effect of wind on the	210
Shanklin, Heavy rainfall at, October and November, 1939	298	—, Range of, in June, 1939	179
Sheppard, P. A.	91	—, Some variations of	167
—, Atmospheric electricity (<i>illus.</i>)	129	Temperatures, minimum, Prediction of, at Habbaniya, Iraq	234
—, Upward discharge of lightning from cloud	178	—, River	147
Shipley, J. F., The film as a meteorological instrument ..	50	Tern Hill, Thunderstorm of July 16th, 1939, at	199
Shoeburyness, Meteorological Office dinner	57	Terrestrial magnetism and electricity	289
Shower of frogs, A	184	— radiation in May, 1939	178
Simpson, A., and Hamilton, D. K. G., Auroral notes for February, 1939	85	Thames floods of 1774, The	57
Simpson, Sir George, Dr. Edward Kidson (<i>Obituary</i>)	176	— Valley, Remarkable drought in the, on October 10th, 1114	245
—, Terrestrial magnetism and electricity (<i>review</i>)	289	Theoretical meteorology	229
Sky, Radiation from the sun and the	26	Thermometer, Effect of wind on the temperature of a	210
Smoke column, Cumulus cloud formed by	117	Thunderstorm of July 16th, 1939, at Tern Hill	199
Snow, Frost and, in December and January, 1938-39	12	— — July 21st, 1939, at South Petherton	199
— lying at Nottingham, Depths of	214	—, Severe, at Troon, on July 15th, 1939	238
Snowfall and stream flow	20	—, Very severe, with large hail on July 28th, 1205	217
— in the Chiltern Hills, The winter's	113	Thunderstorms, Severe, on May 19th, 1251	119
Snowfalls of December and January, 1938-39	48	—, —, with heavy rain, on June, 19th, 1256	151
South Petherton, Thunderstorm at, on July 21st, 1939	199	—, Winter, Early records of (1149, 1258, 1283 and 1791)	302
Static charge	263	Thundery spell in July, 1939, A, and some previous thundery periods	193
Stream flow, Snowfall and	20	Tinn, A. B., Depths of snow lying at Nottingham (<i>illus.</i>)	214
Sun and the sky, Radiation from the	26	Tropics, Some observations on rainfall in the	236
Sun-pillar, A fine, March 8th, 1939	84	Troon, Severe thunderstorm at, on July 15th, 1939	238
Sunshine, bright, Distribution of — in 1911	<i>Monthly</i> 268	Tufted cirrus cloud	233
—, Largest annual total of, in Britain	295	Turbulence, Atmospheric	97
Surrey, Rainfall in	239	Twist, T. F., Lunar rainbows	210
Sutcliffe, R. C., On "gradient winds"	19	Tyndale-Brisioc, R. S., See "Some observations of rainfall in the tropics"	
—, Theoretical meteorology (<i>review</i>)	229	Tyne, Floods in the, on August 12th, 1339	217
See also under reviews.			
Sutton, O. G., Atmospheric turbulence (<i>review</i>)	97	United States Weather Bureau, Chief of	25
		Unusual electrical discharge at Wellington	185, 207

	PAGE	PAGE
Upward discharge of lightning from cloud	178	
Variations of temperature, Some	167	
Veryard, R. G., Remarkable pressure fluctuation in the Vale of York (<i>illus.</i>) ..	137	
<i>See also under Reviews.</i>		
Wadsworth, J., <i>See under Reviews</i>		
Walker, Sir G. T., <i>See under Reviews</i>		
Waterspout, An observation of the end of a	235	
Watson, A. Swan, Photograph by	facing 86	
Watson, W. F., Circumzenithal arc at Wittering, Northants	145	
—, Cumulus cloud formed by smoke column	117	
Weather cock, The	282	
—, Easter, in 1284	89	
—, Forest fires in America and their effect on the	72	
—, The Drama of	200	
Wellington, An unusual electrical discharge at	185, 207	
West Freugh, Stranraer, Dissipation of cloud by aircraft at	298	
Wet-bulb hygrometer, A constant level water apparatus for	242, 305	
Whipple, Dr. F. J. W., Retirement of	85	
Whipple, F. J. W., An anomaly in atmospheric electricity ..	48	
Wind, Effect of, on the temperature of a thermometer ..	210	
Winds, on gradient	19	
“Windy Tuesday,” Feb. 18th, 1662	22	
Winter thunderstorms, Early records of (1149, 1258, 1283 and 1791)	302	
Winter's snowfall in the Chiltern Hills, The	113	
Wittering, Northants, Circumzenithal arc at	145	
Wright, H. L., <i>See under Met. Soc.</i>		
Young-Evans, E. T., Static charge	263	
York, Vale of, Remarkable pressure fluctuation in the ..	137	

ILLUSTRATIONS

	PAGE
Developing clouds	<i>facing 4 and 5</i>
Synoptic chart, Europe, December 21st, 1938, 7h.	13
Synoptic chart, Europe, December 31st, 1938, 7h.	14
Synoptic chart, Europe, January 25th, 1939, 18h.	16
Snowfall and stream flow at Cuffley Brook, December, 1938	21
The march of temperature in West Europe, 1830–1938	39
Monthly mean pressure and rainfall, Leuchars, December, 17 years ..	41
Sketch of western North America	72
Combined rainfall, July and August, in western North America ..	74
Types of vegetation in regions where forest fires occur	76
Cumulus cloud formed by convection over fire on Sister Elsie Peak, California, September 13th, 1913	<i>facing 76</i>
<i>(from “Physics of the Air” by W. J. Humphreys.)</i>	
A. H. R. Goldie, D.Sc.	<i>facing 86</i>
Meteorological Office Exhibit at R.A.F. Aircraft Exhibition, February, 1939	<i>facing 87</i>
Record of temperature at the exhibition, February 13th, 10h., to February 20th, 10h. 30m.	<i>facing 87</i>
Halo system observed at Hastings, March 31st, 1939, 12h. 30m. G.M.T.	109
Height calculation from the emagram	111
The circulation of electricity in the atmosphere (schematic)	132
Variation of potential gradient with universal time	133
Variation of thunderstorm activity over the earth's surface	133

Diurnal variation of potential gradient and of atmospheric pollution in summer at Kew Observatory	135
Pressure distribution over the British Isles at 7h. G.M.T. on February 12th, 1939	138
Autographic records at Catterick, February 12th, 1939	140
Upper air temperature at Aldergrove, February 12th, 1939, 7h. 45m., to February 13th, 1939, 7h. 15m.	141
Topography of the area around Catterick	<i>facing</i> 142
Catterick anemogram, March 8th, 1938, 19h, to March 9th, 1938, 6h.	144
J. S. Dines, M.A.	<i>facing</i> 180
Determination of cloud heights	203
Effect of wind in the temperature of a thermometer	210
Section from Ramsdale Hill to West Bridgford	214
Tufted cirrus cloud, June 21st, 1938	<i>facing</i> 233
Diagram of tufted cirrus cloud	233
A constant level water apparatus for wet bulb hygrometers (Figs. 1 and 2)	243
The lunar semi-diurnal tide in the atmosphere at Greenwich as determined from the Greenwich records of barometric pressure, 1854-1917	274
Geographical distribution of amplitude and phase of annual lunar atmospheric tide	275
Lunar semi-diurnal oscillation of E-region of the ionosphere for the period August 3rd, 1937, to July 11th, 1938, at Cambridge	280
Ground fog in the Valley of the River Isla, Banffshire, August 27th, 1938	<i>facing</i> 304

ERRATA AND CORRIGENDA

187, 305