

INDEX

PAGE	PAGE
Abbot, C. G., and G. T. Bond, Periodicity in solar variation (review)	21
Abergele, Frostless periods at.....	63
Actinometry, Bibliography of.....	216
Africa, Atmospheric circulation over tropical	142
—. Meteorological service in French equatorial	170
Agricultural Meteorological Con- ference, 1933	239
Air motion, Effect of Indian mountain ranges on	45
Antarctic Expedition, Byrd's	270
Anemograms with $\frac{1}{2}$ in. and 1 in. pipes, "Gustiness" shown on pressure tube	263
Anemograph, Accessories for use with the Dines	69
Andrew, W. L., and J. Glass- poole, Exceptional summer of 1933	283
Anticyclone, Rain near centre of	182
Anticyclones, Intrusion of air into	84
Arakawa, H., Topography in rela- tion to pressure and wind (review)	293
Ashmore, S. E., Cloud.....	208
—, Curious cirrus cloud.....	43
—, Thunderstorm phenomenon 87, 114	
Association française pour l'Avancement des Sciences ...	121
Atmosphere, Atoms, molecules and	42
Balloon, Journey of a toy	12
Balls, W. L., Water-table move- ments on a farm in Egypt... 7	
Banerji, S. K., Effect of Indian mountain ranges on air motion (review)	45
Barometer at the National Physical Laboratory, New primary standard	119
Bennett, M. G., British Associa- tion for the Advancement of Science, Leicester, 1933.....	225
Berkhamstead, Whirlwind near Great	185
Best, A. C., Fog on New Year's Day	277
Bigelstone, H. J., Thunderstorm on Merseyside, June 20th, 1933	131
Bigg, W. H., Duststorm at South Farnborough	189
Bilham, E. G., Agricultural Meteorological Conference ...	239
—, Climates of York and Oxford	8
—, Spells of sunshine	87
—, Where is the rainbow	258
Bjerknes, V. F. K.,147, 270	
Blackett, P. M. S., Cosmic radia- tion	61
Boerema, J., Regenval in Neder- landsch Indië (review)	21
Bonacina, L. C. W., Beginning of Spring	64
—, Brilliant solar corona	288
—, Colour of Moonlight	9, 184
—, Snowdrifts in Warwickshire...	90
—, Snowstorms of February, 1933	67
Bond, G. T., and C. G. Abbot, Periodicity in solar variation (review)	21
Books received	46, 99, 147 194, 241, 267, 294
Bos, H.	242
Botley, C. M., Luminous night clouds	209
—, Sun-pillar seen from Hastings	113
Bower, S. M., Summer thunder- storms	61
Breconshire, Snowstorm in	34
British Association for the Ad- vancement of Science225, 270	

INDEX.

PAGE	PAGE		
British Isles, Averages of temperature for the	288	Clark, J. E., York rainfall	8
— —, Extreme diurnal range of air temperature in the	134	—, Phenological report, 1932	257
— —, Wind direction since 1341...	111	Climatic factors and soil	7
<i>British Rainfall</i> , Copies for sale of	161	Climatological Table for the British Empire	<i>monthly</i>
Britton, C. E., Ascents at Shoeburyness with large pilot balloons	214	Climatophysiology	192
—, High pilot-balloon ascents at Shoeburyness	144	Cloud	183, 208
Brooks, C. E. P., Atmospheric circulation over tropical Africa	142	—, Curious cirrus	43
—, Colour of Moonlight	9	—, Eastbourne, May 6th, Roll ...	108
—, Secular variation of temperature at Spitsbergen	144	— formation, Cirrus	112
—, Supposed periodicity in the size of waves	170	— formation, Weston Zoyland camp, Unusual	183
— and T. M. Hunt, Areas with light and heavy rainfalls	3	—, Luminous night	186, 209
— —, Resultant wind direction in London	154	—, Pollen in a	261
— —, Wind direction in the British Isles since 1341	111	Clouds, Luminous	167
Brown, C. H., Meteorology for masters and mates (review)...	240	—, Slow-moving	118
Brown, G. H., World's altitude record flight	65	—, Vertical currents associated with mammato-	141
Brunt, D., Adiabatic lapse-rate for dry and saturated air	111	Condensation nuclei at Kew Observatory	7
Buys Ballot Medal	270	Conference, Agricultural Meteorological	239
— — Memorial	239	Cook Island Groups, Cyclone in the	162
Carter, H. E., Spells of sunshine	164	Corona and rain from an apparently cloudless sky, Lunar ...	259
Cave, C. J. P., Heavy rain at Mangatuna, N.Z.	182	Corona, Brilliant solar	288
—, Phenological report, 1933	257	— seen from Stornoway, Lunar...	68
Challenger, W. H.	63	Cowper, J. E., Remarkable thunderstorm at Shanklin ...	211
Champion, D. L., Cirrus cloud formation	112	Crichton, J., Sunshine record of Tiree	80
—, Thunderstorm of May 6th, 1933	140	Crowther, E. M., Climatic and geological factors in relation to soil	7
—, Whirlwind near Great Berkhamstead	185	Cyclone in the Fiji, Tonga and Cook Island Groups	162
Chandra, K., Vertical currents associated with mammato-clouds	141	Cummings, J. C., Degree of accuracy in estimating tenths	262
Chapman, Prof. S.	242	Danish nautical-meteorological Yearbook, 1932	192
—, Atoms, molecules and atmosphere	42	Dansey, R. P., Hot summer and Scottish snowbeds	238, 259
Chile, Meteorological Society of...	121	Das, A. K., Temperature of rain ...	209
Circulation over tropical Africa, Atmospheric	142	Daw, R. H., Degree of accuracy in estimating tenths	262
Cirrus cloud formation	112	Derbyshire, Hailstorm in	168
Clark, J. E., "Perfect" lunar halo	10	Dewar, D., Unusual cloud formation, Weston Zoyland camp...	183
		Dines, J. S. "Gustiness" shown on pressure tube anemograms with $\frac{1}{2}$ in. and 1 in. pipes ...	263
		—, High pilot-balloon ascents at Shoeburyness	169
		—, Measurement of evaporation (review)	94

INDEX.

v

PAGE	PAGE		
Dines, L. H. G., Relative humidity at different heights over England	9	Fog, Note on radiation	108
Dods, L., Meteor shower	235	— on New Year's Day	277
Dominik, H.	217	Forecast Division, Great snowstorms, Feb., 1933	29
Douglas, C. K. M., Duststorm at South Farnborough	189	Formosa, New meteorological station in	122
—, Summer thunderstorms 53, 85, 114		Frostless periods at Abergele.....	63
—, Upper air observations at Reykjavik during the polar year	253		
Dunbar, W., Spells of sunshine 62, 238		Garbett, L. G., Meteorology for masters and mates (review)...	240
Durst, C. S., Intrusion of air into anticyclones	84	Gillon, W.	70
—. Radiation fog	108	Glasspoole, J., Heavy rainfall at Fleet, Sept. 26th, 1933	212
—, Structure of wind over different surfaces	111	—, Proportion of annual rainfall occurring on the wettest days of the year	120
—, Topography in relation to wind and pressure (review)	293	—, Rainfall in Netherlands Indies (review)	21
Durward, J., Behaviour of the hair hygrograph at Heliopolis	137	—, Rainfall of 1933	290
Duststorm at South Farnborough	189	—, Rainfall over the British Isles, 1820-1929	84
Eastbourne, Congress of the Royal Institute of Public Health, 1933	96	— and W. L. Andrew, Exceptional summer of 1933	283
—, Roll cloud, May 6th	108	Gold, E., Summer thunderstorms	85
Eddy-diffusion, Functional equation of	134	—, Temperature of rain	136
Egypt, Upper air observations over lower	6	Goldie, A. H. R., Heavy rainfalls in Scotland	113
—, Water-table movements on a farm in	7	—, Rates of rainfall.....	138
Electrical discharge from an elevated point	35	“ Greenhouse effect ”	93
England, Relative humidity at different heights over	9	Gregory, Sir Richard	147
Eskdalemuir, Whirlwind at	117	Gustiness of the wind, Effect of a building on the.....	266
—, 1897, Black snow at.....	20	“ Gustiness ” shown on pressure tube anemograms with $\frac{1}{2}$ in. and 1 in. pipes	263
Evaporation, Measurement of	94		
		Hailstones, Conical	11
		—, Large	63
		Hailstorm in Derbyshire	168
		Halley Stewart Laboratory	97
		Halo, “ Perfect ” lunar	10
		—, Solar, July 1st, 1933	140
		— system seen from Hastings.....	89
		Harrison, D. N.. Degree of accuracy in estimating tenths	213
		Harwood, W. A., Local fog	89
		Hastings, Halo system seen from	89
		—, Sun-pillar seen from	113
		Hawke, E. L., Diurnal range of temperature	64
		—, Extreme diurnal ranges of temperature in the British Isles	134
		—, Nature as dramatist	249
		—, Sunspots and sunshine	287
		Health at Eastbourne, Congress of Royal Institute of Public...	96

INDEX.

PAGE		PAGE		
	Heliopolis, Behaviour of the hair hygograph at	137	Kirkwall Bay, Waterspout in	210
	Horner, D. W., February snow-storm	67	Kohli, S. S., Solar radiation measurements at Poona, 1931 (review)	193
	Horrex, E. J., Luminous night cloud	186	Kruisinga, J. C. M., Colour of moonlight	135
	—, Solar halo, July 1st, 1933	140	Kullmer, C. J., Latitude shift of the storm track and storm frequency maps of the U.S.A. 1883-1930 (review)	194
	Houston, Sir Alexander	242		
	Howard, A. G. W., Another thunderstorm phenomenon	139	Lapse-rate for dry and saturated air, Adiabatic	111
	Humidity at different heights over England, Relative	9	Lewis, L. F., Memorable summer of 1933	201
	— in India, Fog and relative	258	Lightning at Stoke Poges, Ball ... discharge during sunshine ... flash, Duration of a	68 139 66, 116
	Hunt, T. M., and C. E. P. Brooks, Areas with light and heavy rainfalls	3	Loewy, A., Über Klimatophysiolgie (review)	192
	—, Resultant wind direction in London	154	London, Resultant wind direction in	154
	—, Wind direction in the British Isles since 1341	111	— roofs, Temperature readings on	177
	Hurricane in the eastern U.S.A. — of June 27th in Trinidad	188 187	Lutkin, F. E., Duration of a lightning flash	66
	Hygograph at Heliopolis, Behaviour of the hair	137	Lyons, Sir Henry	147, 242
	India, Recent meteorological work in	15	Mackintosh, E. E. B.	149
	Indian mountain ranges on air motion, Effect of	45	Malaya, New meteorological stations in	122
	Innes, R. T. A.	70	Mangatuna, N.Z., Heavy rain at	182
	Institution of Professional Civil Servants	242	Manley, G., Further records from the northern Pennines	180
	International Days	1	Margary, I. D., Phenological Report, 1932	257
	Iraq, NW. winds over	84	Massachusetts, New meteorological station in	191
	James, G. B. K., Black snow at Eskdalemuir in 1897	20	Mémery, H., Influence solaire et les progrès de la Météorologie (review)	146
	James, W. G.	194, 218	—. Low temperatures of Jan. and Feb., 1933	43
	Jenkins, R. H., Peculiar temperature phenomenon	164	Merseyside, June 20th, 1933, Thunderstorm on	131
	Jones, W. I., Luminous clouds	167	Meteor shower	235
	Joss, E. J. L.	23	Meteorological conditions during the World's altitude record flight	13
	Keen, B. A., Climatic and geological factors in relation to soil	7	Meteorological Office, Annual report	208
	—. Water-table movements on a farm in Egypt	7	—, Discussions at the 7, 181, 208, 235, 256, 283	
	Kershaw, J. B. C., Sunshine records of the north and south compared	205	—, Shoeburyness staff dinner	47
	—, Sunspots and sunshine	260	—, Soirée	47
	Kew, Lack of SW. winds at	292	Meteorological Service, Brazilian... —, in French equatorial Africa	71 170
	— Observatory, Observations of smoke particles and condensation nuclei at	7	Meteorological Society of Chile ... —, Royal	121 8, 42, 61, 84, 111, 134, 256, 283
	—, Underground water level at	284		
	Kidson, E., Cyclone in the Fiji, Tonga and Cook Island Groups	162		

INDEX.

vii

	PAGE
Meteorological Society, Royal,	
Buchan Prize	8
— — —, Howard Prize	147
— — —, Symons Gold Medal ..	257
Meteorological Work in India	15
Meteorologist, Amateur	232
Meteorology for masters and mates	240
— in the Smithsonian report ...	145
Middleton, W. E. K., Instrument to facilitate the drawing of wind roses	285
Mirage	167
Mirlees, S. T. A., Atmospheric circulation over tropical Africa	142
—, Effect of Indian mountain ranges on air motion (review)	45
—, Halley Stewart Laboratory	97
—, Reduction of temperature to sea level	280
Monger, J., Rainbow preceding waterspout	239
—, Roll Cloud, Eastbourne, May 6th	108
Moon, A. E., Conical hailstones	11
— Corona and rain from an apparently cloudless sky	259
—, Halo system seen from Hast- ings	89
Moonlight, Colour of ... 9, 11, 135, 153,	
184	
National Physical Laboratory,	
New primary standard baro- meter at the	119
Nature as dramatist	249
Netherland Indies, Rainfall in ...	21
Newquay, Summer of 1933 at	236
OBITUARY :—	
Bos, Dr. H.	242
Dominik, Vice-Admiral H.	217
Faris, Capt. R. L.	46
Fisk, Prof. H. W.	46
Gillon, Capt. W.	70
Houston, Sir Alexander	242
Innes, Dr. R. T. A.	70
James, W. G.	194, 218
Palazzo, L.	268
Peek, F. W.	242
Observers, Course of training for ...	62, 122
Official Notices	62
Official Publications	6, 84, 208
Oxford, Climate of	8
Pace, H. L., Luminous clouds ...	167
—, Mirage	167
Palazzo, L.	268
Paranjpe, M. M., and V. V. Sohoni, Fog and relative humidity in India	258
Parhelic circle	286
Peake, J. S., Atmospheric circula- tion over tropical Africa	142
Peek, F. W.	242
Pennines, Further records from the northern	180
Periodicity in the size of waves, Supposed	170
Peshawar, Tornado at	117
Peters, S. P., NW. winds over Iraq in summer	84
—, Some upper air observations over Lower Egypt	6
Phenological report, 1932	257
Photography of the state of the sky, International	90
Pilot-balloon ascents at Shoebur- ness, High	144, 169
Pilot-balloons, Ascents at Shoe- buryness with large	214
Pleasants, R.	194
Polar Year, Upper air observa- tions at Reykjavik during the	253
Pollen in a cloud	261
Poona 1931, Solar radiation measurements at	193
Poulter, R. M., Lack of SW. winds at Kew	292
—, Slow-moving clouds	118
Powers, L. H., Diurnal variation of temperature in St. Helena	18
Pressure distribution during December, 1933	279
—, Topography in relation to	293
Pressures at M.S.L., Lowest recorded barometric	18
Proudman, J.	71
Radiation, Cosmic	61
— in relation to the human body, Solar	84
— measurements at Poona in 1931, Solar	193
Rain at Mangatuna, N.Z., Heavy from an apparently cloud- less sky	182, 259
— near centre of anticyclone	182
—, Temperature of	136, 209
Rainbow, Beautifully reflected ...	77
—, May 7th, Brilliant	113
— preceding waterspout	239
—, Where is the	258
Rainfall at Fleet, near Aldershot, Sept. 26th, 1933, Heavy	212
—, Effect of wind direction in London on the	154
— in Netherlands Indies	21
— occurring on the wettest days of the year, Proportion of annual	120
— of 1933	290

INDEX.

	PAGE		PAGE
Rainfall over the British Isles.....	84	Shaw, Sir Napier—Drama of Weather; E. L. Hawke	249
—, Rates of	138	Swoboda, G.—Grundbegriffe der Wetteranalyse	146
— tables, 1933	<i>monthly</i>	Wadia, H. M., and S. K. Banerji—Evaporation and its measurement; J. S. Dines.....	94
—, York	8	<i>See also</i> Official Publications.	
—, 1933, General distribution <i>monthly</i>		Reykjavik during the polar year, Upper air observations at ...	253
Rainfalls, Areas with light and heavy	3	Rio de Janeiro, Change of directors at the Instituto de Meteorologia Hidrometria e Ecologia Agricola	218
— in Scotland, Heavy	113	Roberts, O. F. T., Functional equation of eddy-diffusion	134
Read, R. S., Meteorological conditions during the World's altitude record flight	13	Royal Society, Hughes Medal	270
Reid, N. C., Lightning discharge during sunshine	139	—, Royal Medal	270
REVIEWS :—		Rutherford, E. C., Rain near centre of anticyclone	182
Abbot, C. G., and G. T. Bond— Periodicity in solar variation	21		
Arakawa, H.—Topography in relation to wind and pressure; C. S. Durst	293		
Banerji, S. K.—Effect of Indian mountain ranges on air motion; S. T. A. Mirrlees ..	45		
— and H. M. Wadia—Evaporation and its measurement; J. S. Dines	94		
Boerema, J.—Regenval in Nederlandsche-Indië; J. Glasspoole	21		
Bond, G. T., and C. G. Abbot— Periodicity in solar variation	21		
Brown, C. H.—Meteorology for masters and mates; L. G. Garbett	240		
Dansk Nautisk—Meteorologisk Aarbog, 1932	192		
India Meteor. Dept., Sci. Notes, Vol. III, Nos. 18, 19, 27, 29, and 30, and Vol. IV, Nos. 31-8, G. T. Walker	15		
Jahrbuch des Meteorologischen Observatoriums auf dem Donnersberge (Böhmen), 1929	98		
Kohli, S. S.—Solar radiation measurements at Poona, 1931	193		
Kullmer, C. J.—Latitude shift of the storm track in the 11-year solar period and storm frequency maps of the U.S.A., 1883-1930	194		
Loewy, A.—Über Klimatophysiologie	192		
Mémery, H.—L'Influence solaire et les progrès de la Meteorologie	146		
Ono, S.—Error of observation reading the decimal fraction of a uniform scale	191		
St. Helena, Diurnal variation of temperature in			18
Sandeman, R. G., Snowstorm in Breconshire			34
Science Museum, Change of Director			147
Scotland, Heavy rainfalls in			113
Shanklin, Remarkable thunder-storm at			211
Shaw, Sir Napier			147
—, Drama of weather (review)			249
—, International Days			1
—, Obituary of L. Palazzo			268
Shoeburyness, High pilot-balloon ascents at			144, 169
—, with large pilot-balloons, Ascents at			214
Simpson, G. C., Colour of moonlight			153
—, and Mrs. Simpson, Reception Sky, International photography of the state of the			294
Smithsonian Report, Meteorology in the			90
Smoke particles at Kew Observatory, Observation of			145
Snow at Eskdalemuir in 1897, Black			7
Snowbeds, Hot summer and the Scottish			20
Snowdrifts in Warwickshire			238, 259
Snowstorm, February			90
— in Breconshire			67
Snowstorms of February, 1933			34
			29

INDEX.

ix

PAGE	PAGE		
Snowstorms of February, 1933, and others	67	Thermometer in vulcanite and iron tubes, Readings of a 4 ft. earth	91
Sohoni, V. V., and M. M. Paranjpe, Fog and relative humidity in India	258	Thunderstorm at Shanklin, Re- markable	211
Soil and climatic and geological factors	7	— of Feb. 10th, 1933	35
Solar influence and the progress of meteorology	146	— of May 6th, 1933	105
— variation, Periodicity in	21	— on Merseyside, June 20th, 1933	131
Spitsbergen, Secular variation of temperature at	144	— phenomenon	87, 111, 139
Spring, Beginning of	40, 64	Thunderstorms of June, 1933	129
Starr, L. H., Electrical discharge from an elevated point	35	—, summer	53, 61, 85, 114
Stoke Poges, Ball lightning at ...	68	Tiree, Sunshine record of	80
Stone, L. H. J., Whirlwind at Eskdalemuir	117	Tonga Islands, Cyclone in the ...	162
Storm track, and storm frequency maps of the U.S.A., 1883-1930, Latitude shift of the	194	Topography in relation to wind and pressure	293
Stornoway, Lunar corona seen from	68	Tornado at Peshawar	117
Sudan, Meteorological agricultural expedition to southern	270	Training for Observers, Course of	62, 122
Summer of 1933 at Newquay	236	Treloar, H. M., Parhelic circle ...	286
— —, Memorable	201, 259, 283	Trinidad, Hurricane of June 27th in	187
Sun-pillar seen from Hastings ...	113	Upper air observations at Reyk- javik during the polar year...	253
Sunshine and Sunspots ...	232, 260, 287	— —, over Lower Egypt	6
—, Lightning discharge during ...	139	U.S.A., Hurricane in the eastern	188
— record of Tiree	80		
— recorder "Universal" pattern, Campbell Stokes	187	Vernon, H. M., Solar radiation in relation to the human body ...	84
— records of the north and south compared	205	Veryard, R. G., Pollen in a cloud	261
—, Spells of	62, 87, 164, 238	—, Tornado at Peshawar	117
Sunspots and Sunshine ...	232, 260, 287	Vigurs, C. C., Summer of 1933 at Newquay	236
Swoboda, G., Grundbegriffe der Wetteranalyse (review)	146		
Temperature at Spitsbergen, Secular variation of	144	Walker, G. T., Recent meteoro- logical work in India	15
—, Effect of warm water on soil	186	Warwickshire, Snowdrifts in	90
— for the British Isles, Averages of	288	Water level at Kew Observatory, Underground	284
—, Great diurnal range of	64	Waterspout in Kirkwall Bay	210
— in St. Helena, Diurnal varia- tion of	18	—, Rainbow preceding	239
— in the British Isles, Extreme diurnal ranges of air	134	Waves, Supposed periodicity in the size of	170
— phenomenon, Peculiar	164	Weather analysis, Fundamental principles of	146
— readings on London roofs	177	— of 1933	monthly
— to sea level, Reduction of	280	— proverbs	292
Temperatures of Jan. and Feb., 1933, Low	43	Weston Zoyland camp, Unusual cloud formation observed at ...	183
Tenths, Degree of accuracy in esti- mating	191, 213, 262	Whipple, F. J. W., Accessories for use with a Dines anemo- graph	69
		—, Journey of a toy balloon	12
		—, Readings of a 4 ft. earth thermometer	91
		—, Underground water level at Kew Observatory	284

INDEX.

	PAGE	PAGE	
Whirlwind at Eskdalemuir	117	Winds at Kew, Lack of SW.	292
— near Great Berkhamstead ...	185	—, Journey of a toy balloon;	
Wilson, S., Frostless periods at		evidence for very strong upper	12
Abergele	63	— over Iraq in summer, Vertical	
Wind direction in London, Result-		extent of NW.	84
tant	154	Wooldridge, G. C., Cloud	183
— — — the British Isles since		Wright, H. L., Observations of	
1341	111	smoke particles and condensa-	
Wind, Effect of a building on the		tion nuclei at Kew Observa-	
gustiness of the	266	tory	7
— over different surfaces, Struc-		Yearbook, Danish nautical-	
ture of	111	meteorological	192
— roses, Instrument to facilitate		York, Climate of	8
drawing	285	— rainfall	8
—, Topography in relation to	293		

ADDENDUM

See page 194.

ERRATA

Page 218, line 33, *for "1864" read "1869."*
See also pages 23, 270.

ILLUSTRATIONS

Percentage areas with rainfall below 10 inches	5
Percentage areas with rainfall above 100 inches	5
Diurnal variation of temperature in St. Helena	19
Synoptic chart 7h., Friday, February 24th, 1933	31
Point discharge record, Kew Observatory, February 10th, 1933.....	36, 37
Dines anemograph with accessories	<i>facing p.</i> 53
Reflected rainbow seen from Eierland, November 29th, 1930	78
Sketch of areas under water on Texel	79
Tornado at Peshawar, April 5th, 1933	<i>facing p.</i> 105
Upper air temperatures during fog at Cardington	109
Cirrus cloud formation	112
Dines P.T. anemogram, Eskdalemuir, May 14th, 1933	118
Flooding of the main Southport road near Seaforth Bridge, June 20th, 1933	<i>facing p.</i> 129
Thunderstorms, June, 1933	130
Record of rainfall, Liverpool (Bidston), June 20th	132
Hygrometer at Heliopolis	137
Mean rates of rainfall (inches per hour), 1925-31	138
Wind periodicities	156
Rainfall and resultant winds, London, Winter	159
Rainfall, England and Wales, and resultant winds, London, Winter	159
Rainfall and resultant winds, London, Summer	160
Rainfall, England and Wales, and resultant winds, London, Summer	160
Whirlwind near Great Berkhamstead	185
Luminous night cloud	186
Annual sunshine records	206
Plan showing relative positions of new and old offices at Heliopolis...	266
Anemogram, Heliopolis, April 25th-26th, 1933	267
Average pressure distribution, December 1st-15th, 1933	280
Isotherms, eastern Siberia, January	282
Instrument to facilitate the drawing of wind roses	286
Wind rose, Kew	292