

Edward Hanna

List of Publications by Year in descending order

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Version: 2024-02-01

140
papers

10,757
citations

31949

53
h-index

33869

99
g-index

150
all docs

150
docs citations

150
times ranked

9761
citing authors

#	ARTICLE	IF	CITATIONS
1	Extended North Atlantic Oscillation and Greenland Blocking Indices 1800â€“2020 from New Meteorological Reanalysis. <i>Atmosphere</i> , 2022, 13, 436.	1.0	4
2	Temporal Variability of Surface Reflectance Supersedes Spatial Resolution in Defining Greenlandâ€™s Bare-Ice Albedo. <i>Remote Sensing</i> , 2022, 14, 62.	1.8	4
3	Greenland surface air temperature changes from 1981 to 2019 and implications for iceâ€™sheet melt and massâ€™balance change. <i>International Journal of Climatology</i> , 2021, 41, E1336.	1.5	65
4	The missing pieces for better future predictions in subarctic ecosystems: A TornetrÃ¤sk case study. <i>Ambio</i> , 2021, 50, 375-392.	2.8	6
5	Brief communication: <scp>CMIP6</scp> does not suggest any atmospheric blocking increase in summer over Greenland by 2100. <i>International Journal of Climatology</i> , 2021, 41, 2589-2596.	1.5	19
6	The role of blocking circulation and emerging open water feedbacks on Greenland coldâ€™season air temperature variability over the last century. <i>International Journal of Climatology</i> , 2021, 41, E2778.	1.5	5
7	Forecasting the severity of the Newfoundland iceberg season using a control systems model. <i>Journal of Operational Oceanography</i> , 2021, 14, 24-36.	0.6	1
8	Winter Arctic Amplification at the synoptic timescale, 1979â€“2018, its regional variation and response to tropical and extratropical variability. <i>Climate Dynamics</i> , 2021, 56, 457-473.	1.7	12
9	A Combined Control Systems and Machine Learning Approach to Forecasting Iceberg Flux off Newfoundland. <i>Sustainability</i> , 2021, 13, 7705.	1.6	0
10	Effects of the tropospheric largeâ€™scale circulation on European winter temperatures during the period of amplified Arctic warming. <i>International Journal of Climatology</i> , 2020, 40, 509-529.	1.5	43
11	Mass balance of the Greenland Ice Sheet from 1992 to 2018. <i>Nature</i> , 2020, 579, 233-239.	13.7	434
12	Mass balance of the ice sheets and glaciers â€“ Progress since AR5 and challenges. <i>Earth-Science Reviews</i> , 2020, 201, 102976.	4.0	44
13	Extreme weather and climate events in northern areas: A review. <i>Earth-Science Reviews</i> , 2020, 209, 103324.	4.0	92
14	The Polar Vortex and Extreme Weather: The Beast from the East in Winter 2018. <i>Atmosphere</i> , 2020, 11, 664.	1.0	22
15	Glacier algae accelerate melt rates on the south-western Greenland Ice Sheet. <i>Cryosphere</i> , 2020, 14, 309-330.	1.5	78
16	GrSMBMIP: intercomparison of the modelled 1980â€“2012 surface mass balance over the Greenland Ice Sheet. <i>Cryosphere</i> , 2020, 14, 3935-3958.	1.5	111
17	Earth, Air, Fire and Ice: Exploring Links between Human-induced Global Warming, Polar Ice Melt and Local Scale Extreme Weather. , 2020, , 47-64.		2
18	Greenland Ice Sheet late-season melt: investigating multiscale drivers of K-transect events. <i>Cryosphere</i> , 2019, 13, 2241-2257.	1.5	8

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19	State of the Climate in 2018. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, Si-S306.	1.7	168
20	Bacterial Dynamics in Supraglacial Habitats of the Greenland Ice Sheet. <i>Frontiers in Microbiology</i> , 2019, 10, 1366.	1.5	23
21	Complex systems modelling for statistical forecasting of winter North Atlantic atmospheric variability: A new approach to North Atlantic seasonal forecasting. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 2568-2585.	1.0	10
22	Greenland blocking index daily series 1851–2015: Analysis of changes in extremes and links with North Atlantic and UK climate variability and change. <i>International Journal of Climatology</i> , 2018, 38, 3546-3564.	1.5	54
23	North Atlantic circulation indices: links with summer and winter UK temperature and precipitation and implications for seasonal forecasting. <i>International Journal of Climatology</i> , 2018, 38, e660.	1.5	48
24	Meteorological effects of the 20 March 2015 solar eclipse over the United Kingdom. <i>Weather</i> , 2018, 73, 71-80.	0.6	8
25	Prospects for seasonal forecasting of iceberg distributions in the North Atlantic. <i>Natural Hazards</i> , 2018, 91, 447-471.	1.6	5
26	Greenland coastal air temperatures linked to Baffin Bay and Greenland Sea ice conditions during autumn through regional blocking patterns. <i>Climate Dynamics</i> , 2018, 50, 83-100.	1.7	22
27	Arctic amplification metrics. <i>International Journal of Climatology</i> , 2018, 38, 4384-4394.	1.5	37
28	The Greenland and Antarctic ice sheets under 1.5 °C global warming. <i>Nature Climate Change</i> , 2018, 8, 1053-1061.	8.1	135
29	The “Warm Arctic/Cold continents” pattern during 1901–2010. <i>International Journal of Climatology</i> , 2018, 38, 5245-5254.	1.5	21
30	Anomalous blocking over Greenland preceded the 2013 extreme early melt of local sea ice. <i>Annals of Glaciology</i> , 2018, 59, 181-190.	2.8	13
31	Brief communication: Recent changes in summer Greenland blocking captured by none of the CMIP5 models. <i>Cryosphere</i> , 2018, 12, 3287-3292.	1.5	59
32	State of the Climate in 2017. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, Si-S310.	1.7	160
33	Mass balance of the Antarctic Ice Sheet from 1992 to 2017. <i>Nature</i> , 2018, 558, 219-222.	13.7	759
34	Simple Statistical Probabilistic Forecasts of the Winter NAO. <i>Weather and Forecasting</i> , 2017, 32, 1585-1601.	0.5	34
35	High resolution (1 km) positive degree-day modelling of Greenland ice sheet surface mass balance, 1870–2012 using reanalysis data. <i>Journal of Glaciology</i> , 2017, 63, 176-193.	1.1	35
36	Greenland Ice Sheet Surface Mass Loss: Recent Developments in Observation and Modeling. <i>Current Climate Change Reports</i> , 2017, 3, 345-356.	2.8	94

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37	Drivers and potential predictability of summer time North Atlantic polar front jet variability. <i>Climate Dynamics</i> , 2017, 48, 3869-3887.	1.7	32
38	Can Arctic warming influence UK extreme weather?. <i>Weather</i> , 2017, 72, 346-352.	0.6	17
39	Surface Air Temperature Fluctuations and Lapse Rates on Olivares Gamma Glacier, Rio Olivares Basin, Central Chile, from a Novel Meteorological Sensor Network. <i>Advances in Meteorology</i> , 2017, 2017, 1-15.	0.6	8
40	Tracking Nonlinear Correlation for Complex Dynamic Systems Using a Windowed Error Reduction Ratio Method. <i>Complexity</i> , 2017, 2017, 1-14.	0.9	5
41	State of the Climate in 2016. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, Si-S280.	1.7	132
42	Greenland Blocking Index 1851â€“2015: a regional climate change signal. <i>International Journal of Climatology</i> , 2016, 36, 4847-4861.	1.5	182
43	Arctic cut-off high drives the poleward shift of a new Greenland melting record. <i>Nature Communications</i> , 2016, 7, 11723.	5.8	67
44	State of the Climate in 2015. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, Si-S275.	1.7	142
45	Inferring the variation of climatic and glaciological contributions to West Greenland iceberg discharge in the twentieth century. <i>Cold Regions Science and Technology</i> , 2016, 121, 167-178.	1.6	16
46	The solar eclipse: a natural meteorological experiment. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150225.	1.6	25
47	Nonlinear response of mid-latitude weather to the changing Arctic. <i>Nature Climate Change</i> , 2016, 6, 992-999.	8.1	268
48	Meteorological effects of the solar eclipse of 20 March 2015: analysis of UK Met Office automatic weather station data and comparison with automatic weather station data from the Faroes and Iceland. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150212.	1.6	17
49	Controls on the transport of oceanic heat to Kangerdlugssuaq Glacier, East Greenland. <i>Journal of Glaciology</i> , 2016, 62, 1167-1180.	1.1	33
50	A daily Azoresâ€“Iceland North Atlantic Oscillation index back to 1850. <i>Geoscience Data Journal</i> , 2015, 2, 12-24.	1.8	35
51	Modelling twentieth century global ocean circulation and iceberg flux at 48Â°N: implications for west Greenland iceberg discharge. <i>Progress in Oceanography</i> , 2015, 138, 194-210.	1.5	15
52	Albedo decline on Greenland's Mittivakkat Gletscher in a warming climate. <i>International Journal of Climatology</i> , 2015, 35, 2294-2307.	1.5	15
53	The Melting Arctic and Midlatitude Weather Patterns: Are They Connected?*. <i>Journal of Climate</i> , 2015, 28, 7917-7932.	1.2	320
54	Recent seasonal asymmetric changes in the NAO (a marked summer decline and increased winter) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 <i>Climatology</i> , 2015, 35, 2540-2554.	1.5	138

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55	Drivers of North Atlantic Polar Front jet stream variability. <i>International Journal of Climatology</i> , 2015, 35, 1697-1720.	1.5	94
56	Decadal slowdown of a land-terminating sector of the Greenland Ice Sheet despite warming. <i>Nature</i> , 2015, 526, 692-695.	13.7	113
57	Mass loss and imbalance of glaciers along the Andes Cordillera to the sub-Antarctic islands. <i>Global and Planetary Change</i> , 2015, 133, 109-119.	1.6	52
58	State of the Climate in 2014. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, ES1-ES32.	1.7	78
59	Greenland precipitation trends in a long-term instrumental climate context (1890–2012): evaluation of coastal and ice core records. <i>International Journal of Climatology</i> , 2015, 35, 303-320.	1.5	84
60	Incorporating topographic indices into dynamic ecosystem modelling using LPJ-GUESS. <i>Ecohydrology</i> , 2014, 7, 1147-1162.	1.1	13
61	State of the Climate in 2013. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, S1-S279.	1.7	138
62	Resolving the Beaufort Sea High using synoptic climatological methods. <i>International Journal of Climatology</i> , 2014, 34, 3312-3319.	1.5	14
63	A century of variation in the dependence of Greenland iceberg calving on ice sheet surface mass balance and regional climate change. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014, 470, 20130662.	1.0	53
64	Atmospheric and oceanic influence on mass balance of northern North Atlantic region land-terminating glaciers. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2014, 96, n/a-n/a.	0.6	6
65	Synoptic climatology of cold air drainage in the Derwent Valley, Peak District, UK. <i>Meteorological Applications</i> , 2014, 21, 161-170.	0.9	17
66	An analysis of the climate of Macaronesia, 1865–2012. <i>International Journal of Climatology</i> , 2014, 34, 604-622.	1.5	63
67	Spatial and temporal seasonal trends in coastal upwelling off Northwest Africa, 1981–2012. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 86, 94-111.	0.6	161
68	Three-dimensional Solar Radiation Model (SORAM) and its application to 3-D urban planning. <i>Solar Energy</i> , 2014, 101, 63-73.	2.9	50
69	Signature of the North Atlantic Oscillation on British solar radiation availability and PV potential: The winter zonal seesaw. <i>Solar Energy</i> , 2014, 107, 210-219.	2.9	13
70	Correlation of oscillatory behaviour in Matlab using wavelets. <i>Computers and Geosciences</i> , 2014, 70, 206-212.	2.0	22
71	Atmospheric and oceanic climate forcing of the exceptional Greenland ice sheet surface melt in summer 2012. <i>International Journal of Climatology</i> , 2014, 34, 1022-1037.	1.5	182
72	United Kingdom solar eclipse of 20 March 2015 weather effects - can you help?. <i>Weather</i> , 2014, 69, 351-351.	0.6	2

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73	Examination of a physically based, high-resolution, distributed Arctic temperature index melt model, on Midtre Lovénbreen, Svalbard. <i>Hydrological Processes</i> , 2014, 28, 134-149.	1.1	14
74	Coastal Greenland air temperature extremes and trends 1890–2010: annual and monthly analysis. <i>International Journal of Climatology</i> , 2014, 34, 1472-1487.	1.5	46
75	The influence of North Atlantic atmospheric and oceanic forcing effects on 1900–2010 Greenland summer climate and ice melt/runoff. <i>International Journal of Climatology</i> , 2013, 33, 862-880.	1.5	193
76	Twentieth-Century Global-Mean Sea Level Rise: Is the Whole Greater than the Sum of the Parts?. <i>Journal of Climate</i> , 2013, 26, 4476-4499.	1.2	197
77	Volume and velocity changes at Mittivakkat Gletscher, southeast Greenland. <i>Journal of Glaciology</i> , 2013, 59, 660-670.	1.1	17
78	Surface mass balance model intercomparison for the Greenland ice sheet. <i>Cryosphere</i> , 2013, 7, 599-614.	1.5	127
79	Ecosystem change and stability over multiple decades in the Swedish subarctic: complex processes and multiple drivers. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120488.	1.8	140
80	Brief communication: Important role of the mid-tropospheric atmospheric circulation in the recent surface melt increase over the Greenland ice sheet. <i>Cryosphere</i> , 2013, 7, 241-248.	1.5	179
81	Ice-sheet mass balance and climate change. <i>Nature</i> , 2013, 498, 51-59.	13.7	253
82	Identification of snow ablation rate, ELA, AAR and net mass balance using transient snowline variations on two Arctic glaciers. <i>Journal of Glaciology</i> , 2013, 59, 649-659.	1.1	50
83	Recent warming in Greenland in a long-term instrumental (1881–2012) climatic context: I. Evaluation of surface air temperature records. <i>Environmental Research Letters</i> , 2012, 7, 045404.	2.2	135
84	Greenland plays a large role in the gloomy picture painted of probable future sea-level rise. <i>Environmental Research Letters</i> , 2012, 7, 041002.	2.2	1
85	An improved estimate of microbially mediated carbon fluxes from the Greenland ice sheet. <i>Journal of Glaciology</i> , 2012, 58, 1098-1108.	1.1	49
86	The recent shift in early summer Arctic atmospheric circulation. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	196
87	Linking Fine-Scale Sub-Arctic Vegetation Distribution in Complex Topography with Surface-Air-Temperature Modelled at 50-m Resolution. <i>Ambio</i> , 2012, 41, 292-302.	2.8	11
88	Stable dynamics in a Greenland tidewater glacier over 26 years despite reported thinning. <i>Annals of Glaciology</i> , 2012, 53, 241-248.	2.8	10
89	How can meteorological observations and microclimate simulations improve understanding of 1913–2010 climate change around Abisko, Swedish Lapland?. <i>Meteorological Applications</i> , 2012, 19, 454-463.	0.9	20
90	Greenland Ice Sheet surface mass balance 1870 to 2010 based on Twentieth Century Reanalysis, and links with global climate forcing. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	118

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91	Modelling surface air temperature variation over complex terrain around abisko, swedish lapland: uncertainties of measurements and models at different scales. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2011, 93, 89-112.	0.6	23
92	Melt-induced speed-up of Greenland ice sheet offset by efficient subglacial drainage. <i>Nature</i> , 2011, 469, 521-524.	13.7	304
93	The cryoconite ecosystem on the Greenland ice sheet. <i>Annals of Glaciology</i> , 2010, 51, 123-129.	2.8	79
94	Spatially extensive estimates of annual accumulation in the dry snow zone of the Greenland Ice Sheet determined from radar altimetry. <i>Cryosphere</i> , 2010, 4, 467-474.	1.5	15
95	Investigating the sensitivity of numerical model simulations of the modern state of the Greenland ice-sheet and its future response to climate change. <i>Cryosphere</i> , 2010, 4, 397-417.	1.5	88
96	Ocean regulation hypothesis for glacier dynamics in southeast Greenland and implications for ice sheet mass changes. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	162
97	Hydrologic response of the Greenland ice sheet: the role of oceanographic warming. <i>Hydrological Processes</i> , 2009, 23, 7-30.	1.1	110
98	Greenland Ice Sheet surface mass balance modelling and freshwater flux for 2007, and in a 1995-2007 perspective. <i>Hydrological Processes</i> , 2009, 23, 2470-2484.	1.1	52
99	Evolution of supra-glacial lakes across the Greenland Ice Sheet. <i>Remote Sensing of Environment</i> , 2009, 113, 2164-2171.	4.6	128
100	Annual accumulation for Greenland updated using ice core data developed during 2000-2006 and analysis of daily coastal meteorological data. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	123
101	Surface mass-balance changes of the Greenland ice sheet since 1866. <i>Annals of Glaciology</i> , 2009, 50, 178-184.	2.8	44
102	An analysis of the extreme rainfall in Yorkshire, June 2007, and its rarity. <i>Weather</i> , 2008, 63, 253-260.	0.6	16
103	Mass balance of the Greenland ice sheet from 1958 to 2007. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	344
104	Increased Runoff from Melt from the Greenland Ice Sheet: A Response to Global Warming. <i>Journal of Climate</i> , 2008, 21, 331-341.	1.2	392
105	New Insights into North European and North Atlantic Surface Pressure Variability, Storminess, and Related Climatic Change since 1830. <i>Journal of Climate</i> , 2008, 21, 6739-6766.	1.2	53
106	Estimation of the Greenland ice sheet surface mass balance for the 20th and 21st centuries. <i>Cryosphere</i> , 2008, 2, 117-129.	1.5	78
107	A new day-to-day pressure variability index as a proxy of Icelandic storminess and complement to the North Atlantic Oscillation index 1823-2005. <i>Meteorologische Zeitschrift</i> , 2007, 16, 25-36.	0.5	16
108	Impact of model physics on estimating the surface mass balance of the Greenland ice sheet. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	68

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109	Weather in my life – Sir Patrick Moore. <i>Weather</i> , 2007, 62, 78-78.	0.6	0
110	Icelandic Coastal Sea Surface Temperature Records Constructed: Putting the Pulse on Air–Sea–Climate Interactions in the Northern North Atlantic. Part I: Comparison with HadISST1 Open-Ocean Surface Temperatures and Preliminary Analysis of Long-Term Patterns and Anomalies of SSTs around Iceland. <i>Journal of Climate</i> , 2006, 19, 5652-5666.	1.2	54
111	Rapid and synchronous ice-dynamic changes in East Greenland. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	184
112	Observed and Modeled Greenland Ice Sheet Snow Accumulation, 1958–2003, and Links with Regional Climate Forcing. <i>Journal of Climate</i> , 2006, 19, 344-358.	1.2	74
113	Recent changes in Icelandic climate. <i>Weather</i> , 2006, 61, 3-9.	0.6	8
114	Characteristics of Stable Flows over Southern Greenland. <i>Pure and Applied Geophysics</i> , 2005, 162, 1747-1778.	0.8	10
115	Snowfall-Driven Growth in East Antarctic Ice Sheet Mitigates Recent Sea-Level Rise. <i>Science</i> , 2005, 308, 1898-1901.	6.0	230
116	Short term mass variability in Greenland, from GRACE. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	29
117	Runoff and mass balance of the Greenland ice sheet: 1958–2003. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	211
118	The great aurorae of 29 and 30 October 2003. <i>Weather</i> , 2004, 59, 143-144.	0.6	0
119	An analysis of Icelandic climate since the nineteenth century. <i>International Journal of Climatology</i> , 2004, 24, 1193-1210.	1.5	116
120	Greenland Ice Sheet: Increased coastal thinning. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	310
121	The Greenland ice sheet: A global warming signal?. <i>Weather</i> , 2003, 58, 351-357.	0.6	3
122	Recent cooling in coastal southern Greenland and relation with the North Atlantic Oscillation. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	79
123	Surface mass balance of the Greenland ice sheet from climate-analysis data and accumulation/runoff models. <i>Annals of Glaciology</i> , 2002, 35, 67-72.	2.8	32
124	Recent climate of southern Greenland. <i>Weather</i> , 2002, 57, 320-328.	0.6	11
125	A polar airstream and sea-ice off south-east Greenland. <i>Weather</i> , 2002, 57, 360-360.	0.6	0
126	Annual net snow accumulation over southern Greenland from 1975 to 1998. <i>Journal of Geophysical Research</i> , 2001, 106, 33827-33837.	3.3	32

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127	Anomalous peak in Antarctic sea-ice area, Winter 1998, coincident with ENSO. <i>Geophysical Research Letters</i> , 2001, 28, 1595-1598.	1.5	24
128	Derivation and optimization of a new Antarctic sea-ice record. <i>International Journal of Remote Sensing</i> , 2001, 22, 113-139.	1.3	19
129	Patterns and Variations of Snow Accumulation over Greenland, 1979-1998, from ECMWF Analyses, and Their Verification. <i>Journal of Climate</i> , 2001, 14, 3521-3535.	1.2	20
130	Validation of ECMWF (re)analysis surface climate data, 1979-1998, for Greenland and implications for mass balance modelling of the ice sheet. <i>International Journal of Climatology</i> , 2001, 21, 171-195.	1.5	39
131	Mount Etna volcanic plume. <i>Weather</i> , 2001, 56, 383-384.	0.6	0
132	Meteorological effects of the solar eclipse of 11 August 1999. <i>Weather</i> , 2000, 55, 430-446.	0.6	51
133	Recent observations of Antarctic sea-ice. <i>Weather</i> , 1999, 54, 71-87.	0.6	4
134	The role of Antarctic sea ice in global climate change. <i>Progress in Physical Geography</i> , 1996, 20, 371-401.	1.4	27
135	Have long-term solar minima, such as the Maunder Minimum, any recognisable climatic effect?. <i>Weather</i> , 1996, 51, 234-242.	0.6	2
136	Have long-term solar minima, such as the Maunder Minimum, any recognisable climatic effect?. <i>Weather</i> , 1996, 51, 304-312.	0.6	5
137	How effective are tipping-bucket raingauges? A review. <i>Weather</i> , 1995, 50, 336-342.	0.6	27
138	Choosing binoculars for weather observing. <i>Weather</i> , 1994, 49, 221-223.	0.6	0
139	A PROMINENT OPTICAL PHENOMENON ASSOCIATED WITH THE PHYSICS OF THE IONOSPHERE. <i>Weather</i> , 1992, 47, 339-341.	0.6	2
140	Meteorological effects and impacts of the 10 June 2021 solar eclipse over the British Isles, Iceland and Greenland. <i>Weather</i> , 0, , .	0.6	0