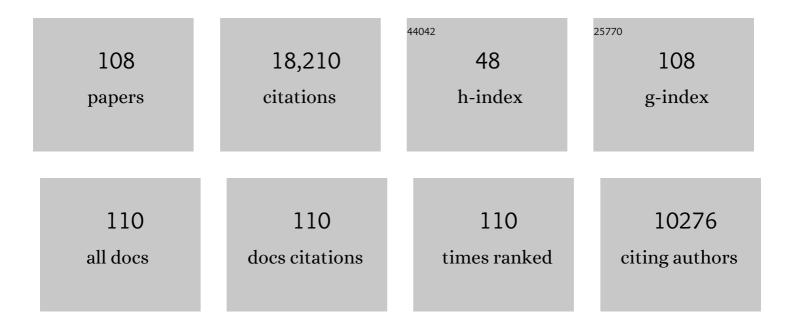
David W J Thompson

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Simulated Atmospheric Response to Western North Pacific Sea Surface Temperature Anomalies. Journal of Climate, 2022, 35, 3335-3352.	1.2	5
2	Understanding the Role of Ocean Dynamics in Midlatitude Sea Surface Temperature Variability Using a Simple Stochastic Climate Model. Journal of Climate, 2022, 35, 3313-3333.	1.2	5
3	Long-range prediction and the stratosphere. Atmospheric Chemistry and Physics, 2022, 22, 2601-2623.	1.9	24
4	Links between climate sensitivity and the large-scale atmospheric circulation inÂa simple general circulation model. Journal of Climate, 2022, , 1-38.	1.2	0
5	On the Southern Hemisphere Stratospheric Response to ENSO and Its Impacts on Tropospheric Circulation. Journal of Climate, 2022, 35, 1963-1981.	1.2	2
6	Observed Linkages Between the Atmospheric Circulation and Oceanicâ€Forced Seaâ€&urface Temperature Variability in the Western North Pacific. Geophysical Research Letters, 2022, 49, .	1.5	1
7	Climate Impacts and Potential Drivers of the Unprecedented Antarctic Ozone Holes of 2020 and 2021. Geophysical Research Letters, 2022, 49, .	1.5	16
8	Downstream Suppression of Baroclinic Waves. Journal of Climate, 2021, 34, 919-930.	1.2	2
9	On the effects of the ocean on atmospheric CFC-11 lifetimes and emissions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2021528118.	3.3	5
10	Quantifying the Role of Ocean Dynamics in Ocean Mixed Layer Temperature Variability. Journal of Climate, 2021, 34, 2567-2589.	1.2	6
11	The 2019 Southern Hemisphere Stratospheric Polar Vortex Weakening and Its Impacts. Bulletin of the American Meteorological Society, 2021, 102, E1150-E1171.	1.7	55
12	Emergence of Southern Hemisphere stratospheric circulation changes in response to ozone recovery. Nature Geoscience, 2021, 14, 638-644.	5.4	24
13	Widespread changes in surface temperature persistence under climate change. Nature, 2021, 599, 425-430.	13.7	32
14	Evaluating Stratospheric Tropical Width Using Tracer Concentrations. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033081.	1.2	3
15	A Basic Effect of Cloud Radiative Effects on Tropical Sea Surface Temperature Variability. Journal of Climate, 2020, 33, 4333-4346.	1.2	2
16	The Key Role of Coupled Chemistry–Climate Interactions in Tropical Stratospheric Temperature Variability. Journal of Climate, 2020, 33, 7619-7629.	1.2	4
17	The Role of Tropical, Midlatitude, and Polar Cloud-Radiative Changes for the Midlatitude Circulation Response to Global Warming. Journal of Climate, 2020, 33, 7927-7943.	1.2	6
18	Arctic cloud annual cycle biases in climate models. Atmospheric Chemistry and Physics, 2019, 19, 8759-8782.	1.9	38

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19	Rare forecasted climate event under way in the Southern Hemisphere. Nature, 2019, 573, 495-495.	13.7	18
20	Australian hot and dry extremes induced by weakenings of the stratospheric polar vortex. Nature Geoscience, 2019, 12, 896-901.	5.4	87
21	A Robust Constraint on the Temperature and Height of the Extratropical Tropopause. Journal of Climate, 2019, 32, 273-287.	1.2	5
22	The Importance of Unresolved Biases in Twentieth-Century Sea Surface Temperature Observations. Bulletin of the American Meteorological Society, 2019, 100, 621-629.	1.7	15
23	Thermodynamic Control on the Poleward Shift of the Extratropical Jet in Climate Change Simulations: The Role of Rising High Clouds and Their Radiative Effects. Journal of Climate, 2019, 32, 917-934.	1.2	27
24	On the Observed Relationships between Wintertime Variability in Kuroshio–Oyashio Extension Sea Surface Temperatures and the Atmospheric Circulation over the North Pacific. Journal of Climate, 2018, 31, 4669-4681.	1.2	26
25	The Risks of Contracting the Acquisition and Processing of the Nation's Weather and Climate Data to the Private Sector. Bulletin of the American Meteorological Society, 2018, 99, 869-870.	1.7	6
26	Seasonal Evolution of Stratosphereâ€Troposphere Coupling in the Southern Hemisphere and Implications for the Predictability of Surface Climate. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,002.	1.2	53
27	Evidence for Predictive Skill of High‣atitude Climate Due to Midsummer Sea Ice Extent Anomalies. Geophysical Research Letters, 2018, 45, 9114-9122.	1.5	9
28	Revisiting the Mystery of Recent Stratospheric Temperature Trends. Geophysical Research Letters, 2018, 45, 9919-9933.	1.5	51
29	Observed Changes in the Southern Hemispheric Circulation in May. Journal of Climate, 2017, 30, 527-536.	1.2	16
30	Intraseasonal Periodicity in the Southern Hemisphere Circulation on Regional Spatial Scales. Journals of the Atmospheric Sciences, 2017, 74, 865-877.	0.6	9
31	Quantifying the Lead Time Required for a Linear Trend to Emerge from Natural Climate Variability. Journal of Climate, 2017, 30, 10179-10191.	1.2	8
32	Thermodynamic constraint on the depth of the global tropospheric circulation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8181-8186.	3.3	42
33	Observed connections of Arctic stratospheric ozone extremes to Northern Hemisphere surface climate. Environmental Research Letters, 2017, 12, 024004.	2.2	61
34	The Signature of Southern Hemisphere Atmospheric Circulation Patterns in Antarctic Precipitation. Geophysical Research Letters, 2017, 44, 11580-11589.	1.5	56
35	The Influence of Atmospheric Cloud Radiative Effects on the Large-Scale Stratospheric Circulation. Journal of Climate, 2017, 30, 5621-5635.	1.2	5
36	What Makes an Annular Mode "Annular�. Journals of the Atmospheric Sciences, 2017, 74, 317-332.	0.6	13

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37	Observed Signatures of the Barotropic and Baroclinic Annular Modes in Cloud Vertical Structure and Cloud Radiative Effects. Journal of Climate, 2016, 29, 4723-4740.	1.2	13
38	Stratospheric temperature changes during the satellite era. Journal of Geophysical Research D: Atmospheres, 2016, 121, 664-681.	1.2	44
39	The signatures of largeâ€scale patterns of atmospheric variability in Antarctic surface temperatures. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3276-3289.	1.2	73
40	On the Observed Relationships between Variability in Gulf Stream Sea Surface Temperatures and the Atmospheric Circulation over the North Atlantic. Journal of Climate, 2016, 29, 3719-3730.	1.2	33
41	Baroclinic and Barotropic Annular Variability in the Northern Hemisphere. Journals of the Atmospheric Sciences, 2015, 72, 1117-1136.	0.6	25
42	The Influence of Atmospheric Cloud Radiative Effects on the Large-Scale Atmospheric Circulation. Journal of Climate, 2015, 28, 7263-7278.	1.2	68
43	Quantifying the Role of Internal Climate Variability in Future Climate Trends. Journal of Climate, 2015, 28, 6443-6456.	1.2	143
44	Comparing the Roles of Barotropic versus Baroclinic Feedbacks in the Atmosphere's Response to Mechanical Forcing. Journals of the Atmospheric Sciences, 2014, 71, 177-194.	0.6	19
45	Barotropic and Baroclinic Annular Variability in the Southern Hemisphere. Journals of the Atmospheric Sciences, 2014, 71, 1480-1493.	0.6	63
46	Periodic Variability in the Large-Scale Southern Hemisphere Atmospheric Circulation. Science, 2014, 343, 641-645.	6.0	57
47	Global Warming and Winter Weather. Science, 2014, 343, 729-730.	6.0	231
48	Observed linkages between the northern annular mode/North Atlantic Oscillation, cloud incidence, and cloud radiative forcing. Geophysical Research Letters, 2014, 41, 1681-1688.	1.5	42
49	On the Identification of the Downward Propagation of Arctic Stratospheric Climate Change over Recent Decades*. Journal of Climate, 2014, 27, 2789-2799.	1.2	14
50	Influences of the Antarctic Ozone Hole on Southern Hemispheric Summer Climate Change. Journal of Climate, 2014, 27, 6245-6264.	1.2	42
51	A global survey of the instantaneous linkages between cloud vertical structure and largeâ€scale climate. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3770-3792.	1.2	40
52	On the Signatures of Equatorial and Extratropical Wave Forcing in Tropical Tropopause Layer Temperatures. Journals of the Atmospheric Sciences, 2013, 70, 1084-1102.	0.6	31
53	The signature of the stratospheric Brewer‒Dobson circulation in tropospheric clouds. Journal of Geophysical Research D: Atmospheres, 2013, 118, 3486-3494.	1.2	26
54	Up-gradient eddy fluxes of potential vorticity near the subtropical jet. Geophysical Research Letters, 2013, 40, 5988-5993.	1.5	24

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55	Seasonal Relationships between Large-Scale Climate Variability and Antarctic Sea Ice Concentration. Journal of Climate, 2012, 25, 5451-5469.	1.2	127
56	On the Linkages between the Tropospheric Isentropic Slope and Eddy Fluxes of Heat during Northern Hemisphere Winter. Journals of the Atmospheric Sciences, 2012, 69, 1811-1823.	0.6	23
57	The mystery of recent stratospheric temperature trends. Nature, 2012, 491, 692-697.	13.7	106
58	Equatorial Planetary Waves and Their Signature in Atmospheric Variability. Journals of the Atmospheric Sciences, 2012, 69, 857-874.	0.6	35
59	Does increasing model stratospheric resolution improve extended-range forecast skill?. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	53
60	The influence of Southern Hemisphere seaâ€ice extent on the latitude of the midâ€latitude jet stream. Geophysical Research Letters, 2011, 38, .	1.5	51
61	The Seasonal Cycle and Interannual Variability in Stratospheric Temperatures and Links to the Brewer–Dobson Circulation: An Analysis of MSU and SSU Data. Journal of Climate, 2011, 24, 6243-6258.	1.2	33
62	Signatures of the Antarctic ozone hole in Southern Hemisphere surface climate change. Nature Geoscience, 2011, 4, 741-749.	5.4	781
63	The Three-Dimensional Distribution of Clouds over the Southern Hemisphere High Latitudes. Journal of Climate, 2011, 24, 5799-5811.	1.2	34
64	Isentropic Slopes, Downgradient Eddy Fluxes, and the Extratropical Atmospheric Circulation Response to Tropical Tropospheric Heating. Journals of the Atmospheric Sciences, 2011, 68, 2292-2305.	0.6	52
65	A Global Survey of Static Stability in the Stratosphere and Upper Troposphere. Journal of Climate, 2010, 23, 2275-2292.	1.2	99
66	An abrupt drop in Northern Hemisphere sea surface temperature around 1970. Nature, 2010, 467, 444-447.	13.7	110
67	The Steady-State Atmospheric Circulation Response to Climate Change–like Thermal Forcings in a Simple General Circulation Model. Journal of Climate, 2010, 23, 3474-3496.	1.2	269
68	Comparing variability and trends in observed and modelled globalâ€mean surface temperature. Geophysical Research Letters, 2010, 37, .	1.5	24
69	On the Role of Radiative Processes in Stratosphere–Troposphere Coupling. Journal of Climate, 2009, 22, 4154-4161.	1.2	27
70	Identifying Signatures of Natural Climate Variability in Time Series of Global-Mean Surface Temperature: Methodology and Insights. Journal of Climate, 2009, 22, 6120-6141.	1.2	150
71	A critical comparison of stratosphere–troposphere coupling indices. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 1661-1672.	1.0	193
72	Coupled chemistry climate model simulations of stratospheric temperatures and their trends for the recent past. Geophysical Research Letters, 2009, 36, .	1.5	29

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73	An update of observed stratospheric temperature trends. Journal of Geophysical Research, 2009, 114, .	3.3	260
74	Understanding Recent Stratospheric Climate Change. Journal of Climate, 2009, 22, 1934-1943.	1.2	70
75	Observational Evidence of Reemergence in the Extratropical Southern Hemisphere. Journal of Climate, 2009, 22, 1446-1453.	1.2	11
76	A large discontinuity in the mid-twentieth century in observed global-mean surface temperature. Nature, 2008, 453, 646-649.	13.7	265
77	Observations of Large-Scale Ocean–Atmosphere Interaction in the Southern Hemisphere. Journal of Climate, 2008, 21, 1244-1259.	1.2	133
78	Contrasts between Antarctic and Arctic ozone depletion. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 445-449.	3.3	51
79	Australian Rainfall and Surface Temperature Variations Associated with the Southern Hemisphere Annular Mode. Journal of Climate, 2007, 20, 2452-2467.	1.2	446
80	Observed relationships between the Southern Annular Mode and atmospheric carbon dioxide. Global Biogeochemical Cycles, 2007, 21, .	1.9	18
81	Is Antarctic climate most sensitive to ozone depletion in the middle or lower stratosphere?. Geophysical Research Letters, 2007, 34, .	1.5	12
82	Effects of ozone cooling in the tropical lower stratosphere and upper troposphere. Geophysical Research Letters, 2007, 34, .	1.5	75
83	On the Tropospheric Response to Anomalous Stratospheric Wave Drag and Radiative Heating. Journals of the Atmospheric Sciences, 2006, 63, 2616-2629.	0.6	86
84	Observed Relationships between the El Niño–Southern Oscillation and the Extratropical Zonal-Mean Circulation. Journal of Climate, 2006, 19, 276-287.	1.2	383
85	Recent Stratospheric Climate Trends as Evidenced in Radiosonde Data: Global Structure and Tropospheric Linkages. Journal of Climate, 2005, 18, 4785-4795.	1.2	112
86	Stratosphere–Troposphere Coupling in the Southern Hemisphere. Journals of the Atmospheric Sciences, 2005, 62, 708-715.	0.6	182
87	The Importance of Atmospheric Dynamics in the Northern Hemisphere Wintertime Climate Response to Changes in the Earth's Orbit. Journal of Climate, 2005, 18, 1315-1325.	1.2	30
88	On the distribution and variability of ozone in the tropical upper troposphere: Implications for tropical deep convection and chemical-dynamical coupling. Geophysical Research Letters, 2005, 32, .	1.5	63
89	Four decades of ozonesonde measurements over Antarctica. Journal of Geophysical Research, 2005, 110, .	3.3	102
90	Stratosphere-troposphere evolution during polar vortex intensification. Journal of Geophysical Research, 2005, 110, .	3.3	156

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91	The Life Cycle of the Northern Hemisphere Sudden Stratospheric Warmings. Journal of Climate, 2004, 17, 2584-2596.	1.2	409
92	The Signature of the Annular Modes in the Tropical Troposphere. Journal of Climate, 2004, 17, 4330-4342.	1.2	52
93	North Atlantic Atmosphere–Ocean Interaction on Intraseasonal Time Scales. Journal of Climate, 2004, 17, 1617-1621.	1.2	22
94	Atmospheric processes governing the Northern Hemisphere annular mode/North Atlantic Oscillation. Geophysical Monograph Series, 2003, , 81-112.	0.1	77
95	ATMOSPHERIC SCIENCE: Weather from the Stratosphere?. Science, 2003, 301, 317-319.	6.0	92
96	Simulation of Recent Southern Hemisphere Climate Change. Science, 2003, 302, 273-275.	6.0	519
97	Stratospheric Memory and Skill of Extended-Range Weather Forecasts. Science, 2003, 301, 636-640.	6.0	455
98	The Pacific Center of Action of the Northern Hemisphere Annular Mode: Real or Artifact?. Journal of Climate, 2002, 15, 1987-1991.	1.2	156
99	Annular Modes and Climate Prediction. Physics Today, 2002, 55, 28-33.	0.3	77
100	Stratospheric Connection to Northern Hemisphere Wintertime Weather: Implications for Prediction. Journal of Climate, 2002, 15, 1421-1428.	1.2	409
101	Interpretation of Recent Southern Hemisphere Climate Change. Science, 2002, 296, 895-899.	6.0	1,594
102	Regional Climate Impacts of the Northern Hemisphere Annular Mode. Science, 2001, 293, 85-89.	6.0	756
103	The Relationship between the Meridional Profile of Zonal-mean Geostrophic Wind and Station Wave at 500 hPa. Advances in Atmospheric Sciences, 2001, 18, 692-700.	1.9	1
104	Comments on "Northern Hemisphere Teleconnection Patterns during Extreme Phases of the Zonal-Mean Circulationâ€: Journal of Climate, 2000, 13, 1037-1039.	1.2	11
105	Can ozone depletion and global warming interact to produce rapid climate change?. Proceedings of the United States of America, 2000, 97, 1412-1417.	3.3	311
106	Annular Modes in the Extratropical Circulation. Part I: Month-to-Month Variability*. Journal of Climate, 2000, 13, 1000-1016.	1.2	2,571
107	Annular Modes in the Extratropical Circulation. Part II: Trends. Journal of Climate, 2000, 13, 1018-1036.	1.2	936
108	The Arctic oscillation signature in the wintertime geopotential height and temperature fields. Geophysical Research Letters, 1998, 25, 1297-1300.	1.5	3,381