

# Timothy M Hall

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

3,434  
citations

201674  
27  
h-index

233421  
45  
g-index

46  
all docs

46  
docs citations

46  
times ranked

3118  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Age of stratospheric air: Theory, observations, and models. <i>Reviews of Geophysics</i> , 2002, 40, 1-1.   | 23.0 | 553       |
| 2  | Age as a diagnostic of stratospheric transport. <i>Journal of Geophysical Research</i> , 1994, 99, 1059.  | 3.3  | 364       |
| 3  | Human influence on tropical cyclone intensity. <i>Science</i> , 2016, 353, 242-246.   | 12.6 | 286       |
| 4  | Transit-Time and Tracer-Age Distributions in Geophysical Flows. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 3539-3558.  | 1.7  | 179       |
| 5  | On the role of charged aerosols in polar mesosphere summer echoes. <i>Journal of Geophysical Research</i> , 1992, 97, 875-886.  | 3.3  | 177       |
| 6  | Evaluation of transport in stratospheric models. <i>Journal of Geophysical Research</i> , 1999, 104, 18815-18839.   | 3.3  | 175       |
| 7  | Relationships among tracer ages. <i>Journal of Geophysical Research</i> , 2003, 108, .  | 3.3  | 168       |
| 8  | Statistical modelling of North Atlantic tropical cyclone tracks. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2007, 59, 486-498.   | 1.7  | 152       |
| 9  | A Generalized Transport Theory: Water-Mass Composition and Age. <i>Journal of Physical Oceanography</i> , 2002, 32, 1932-1946.  | 1.7  | 136       |
| 10 | Transport times and anthropogenic carbon in the subpolar North Atlantic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004, 51, 1475-1491.                              | 1.4  | 131       |
| 11 | Inferring the concentration of anthropogenic carbon in the ocean from tracers. <i>Global Biogeochemical Cycles</i> , 2002, 16, 78-178-15.   | 4.9  | 102       |
| 12 | On the impact angle of Hurricane Sandy's New Jersey landfall. <i>Geophysical Research Letters</i> , 2013, 40, 2312-2315.  | 4.0  | 79        |
| 13 | Hurricane stalling along the North American coast and implications for rainfall. <i>Npj Climate and Atmospheric Science</i> , 2019, 2, .  | 6.8  | 73        |
| 14 | Estimates of anthropogenic carbon in the Indian Ocean with allowance for mixing and time-varying air-sea CO <sub>2</sub> disequilibrium. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a. | 4.9  | 65        |
| 15 | A Statistical Model of Tropical Cyclone Tracks in the Western North Pacific with ENSO-Dependent Cyclogenesis. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 1725-1739.        | 1.5  | 62        |
| 16 | Timescales for the stratospheric circulation derived from tracers. <i>Journal of Geophysical Research</i> , 1997, 102, 8991-9001.   | 3.3  | 57        |
| 17 | Tracer transport in the tropical stratosphere due to vertical diffusion and horizontal mixing. <i>Geophysical Research Letters</i> , 1997, 24, 1383-1386.   | 4.0  | 53        |
| 18 | Simulations of the trend and annual cycle in stratospheric CO <sub>2</sub> . <i>Journal of Geophysical Research</i> , 1993, 98, 10573-10581.  | 3.3  | 49        |

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|----|--|-----|-----------|
| 19 | Seasonality and weather-driven variability of transpacific transport. Journal of Geophysical Research, 2005, 110, .  | 3.3 | 47        |
| 20 | Seasonal evolutions of N2O, O3, and CO2: Three-dimensional simulations of stratospheric correlations. Journal of Geophysical Research, 1995, 100, 16699.                         | 3.3 | 42        |
| 21 | Influence of nonlocal chemistry on tracer distributions: Inferring the mean age of air from SF6. Journal of Geophysical Research, 1998, 103, 13327-13336.                        | 3.3 | 40        |
| 22 | On Ocean Transport Diagnostics: The Idealized Age Tracer and the Age Spectrum. Journal of Physical Oceanography, 2002, 32, 1987-1991.  | 1.7 | 38        |
| 23 | North American Tropical Cyclone Landfall and SST: A Statistical Model Study. Journal of Climate, 2013, 26, 8422-8439.  | 3.2 | 34        |
| 24 | Transit time distributions in Lake Issyk-Kul. Geophysical Research Letters, 2002, 29, 84-1-84-4.   | 4.0 | 33        |
| 25 | Stratospheric residence time and its relationship to mean age. Journal of Geophysical Research, 2000, 105, 6773-6782.  | 3.3 | 30        |
| 26 | Advective-diffusive mass flux and implications for stratosphere-troposphere exchange. Geophysical Research Letters, 2003, 30, n/a-n/a.   | 4.0 | 30        |
| 27 | Comparison of Local and Basinwide Methods for Risk Assessment of Tropical Cyclone Landfall. Journal of Applied Meteorology and Climatology, 2008, 47, 361-367.                   | 1.5 | 28        |
| 28 | ENSO Effect on East Asian Tropical Cyclone Landfall via Changes in Tracks and Genesis in a Statistical Model. Journal of Applied Meteorology and Climatology, 2014, 53, 406-420. | 1.5 | 28        |
| 29 | Ventilation Rates Estimated from Tracers in the Presence of Mixing. Journal of Physical Oceanography, 2007, 37, 2599-2611.   | 1.7 | 26        |
| 30 | The frequency and duration of U.S. hurricane droughts. Geophysical Research Letters, 2015, 42, 3482-3485.  | 4.0 | 25        |
| 31 | Propagation of Tracer Signals in Boundary Currents. Journal of Physical Oceanography, 2005, 35, 1538-1552.   | 1.7 | 23        |
| 32 | Studies of African Wave Disturbances with the GISS GCM. Journal of Climate, 1994, 7, 261-276.  | 3.2 | 21        |
| 33 | The Sensitivity of African Wave Disturbances to Remote Forcing. Journal of Applied Meteorology and Climatology, 1996, 35, 1100-1110.   | 1.7 | 19        |
| 34 | Low-level transpacific transport. Journal of Geophysical Research, 2007, 112, .  | 3.3 | 19        |
| 35 | Path histories and timescales in stratospheric transport: Analysis of an idealized model. Journal of Geophysical Research, 2000, 105, 22811-22823.                               | 3.3 | 18        |
| 36 | A reevaluation of the Stokes drift in the polar summer mesosphere. Journal of Geophysical Research, 1992, 97, 887-897.   | 3.3 | 13        |

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|----|--|-----|-----------|
| 37 | Tropospheric transport climate partitioned by surface origin and transit time. Journal of Geophysical Research, 2008, 113, .   | 3.3 | 10        |
| 38 | SynthETC: A Statistical Model for Severe Winter Storm Hazard on Eastern North America. Journal of Climate, 2017, 30, 5329-5343.  | 3.2 | 10        |
| 39 | Tracer age symmetry in advective“diffusive flows. Journal of Marine Systems, 2004, 48, 51-59.  | 2.1 | 9         |
| 40 | Separating the natural and anthropogenic air-sea flux of CO2: The Indian Ocean. Geophysical Research Letters, 2004, 31, .  | 4.0 | 7         |
| 41 | Temporal variations and trends of CFC11 and CFC12 surface-water saturations in Antarctic marginal seas: Results of a regional ocean circulation model. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 175-198. | 1.4 | 7         |
| 42 | Coastal marshes provide valuable protection for coastal communities from storm-induced wave, flood, and structural loss in a changing climate. Scientific Reports, 2022, 12, 3051.   | 3.3 | 7         |
| 43 | Idealized tracer transport models with time-varying transport: applications to ocean boundary currents. Environmental Fluid Mechanics, 2010, 10, 235-255.  | 1.6 | 3         |
| 44 | Pacific Hurricane Landfalls on Mexico and SST. Journal of Applied Meteorology and Climatology, 2017, 56, 667-676.  | 1.5 | 3         |
| 45 | Statistical modelling of North Atlantic tropical cyclone tracks. Tellus, Series A: Dynamic Meteorology and Oceanography, 2007, , .   | 1.7 | 3         |
| 46 | Extreme Weather and Climate: Workshop Report. Journal of Extreme Events, 2016, 03, 1671001.  | 1.1 | 0         |