

Frederic Vitart

List of Publications by Year in descending order

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97
papers

28,926
citations

41323

49
h-index

38368

95
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97
all docs

97
docs citations

97
times ranked

23742
citing authors

#	ARTICLE	IF	CITATIONS
1	Tropospheric Role in the Predictability of the Surface Impact of the 2018 Sudden Stratospheric Warming Event. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	6
2	Advances in the Prediction of MJO Teleconnections in the S2S Forecast Systems. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E1426-E1447.	1.7	17
3	Advances in the Subseasonal Prediction of Extreme Events: Relevant Case Studies across the Globe. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E1473-E1501.	1.7	29
4	The 2021 Western North American Heatwave and Its Subseasonal Predictions. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	36
5	An anomalous warm-season trans-Pacific atmospheric river linked to the 2021 western North America heatwave. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	23
6	Hemispheric Impact of North Atlantic SSTs in Subseasonal Forecasts. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL0911446.	1.5	5
7	Impact of the Boreal Summer Intraseasonal Oscillation on Typhoon Tracks in the Western North Pacific and the Prediction Skill of the ECMWF Model. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091505.	1.5	10
8	Lagged ensembles in subseasonal predictions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 3227-3242.	1.0	5
9	Skill, Predictability, and Cluster Analysis of Atlantic Tropical Storms and Hurricanes in the ECMWF Monthly Forecasts. <i>Monthly Weather Review</i> , 2021, , .	0.5	7
10	Multimodel Subseasonal Forecasts of Spring Cold Spells: Potential Value for the Hazelnut Agribusiness. <i>Weather and Forecasting</i> , 2020, 35, 237-254.	0.5	12
11	Subseasonal to Seasonal Prediction of Weather to Climate with Application to Tropical Cyclones. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2018JD029375.	1.2	31
12	The Impact of the Stratosphere on the MJO in a Forecast Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032106.	1.2	13
13	Current and Emerging Developments in Subseasonal to Decadal Prediction. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E869-E896.	1.7	116
14	The Time-Scale-Dependent Response of the Wintertime North Atlantic to Increased Ocean Model Resolution in a Coupled Forecast Model. <i>Journal of Climate</i> , 2020, 33, 3663-3689.	1.2	15
15	A Baseline for Global Weather and Climate Simulations at 1 km Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002192.	1.3	54
16	Subseasonal Predictions of Tropical Cyclone Occurrence and ACE in the S2S Dataset. <i>Weather and Forecasting</i> , 2020, 35, 921-938.	0.5	22
17	Global evaluation of atmospheric river subseasonal prediction skill. <i>Climate Dynamics</i> , 2019, 52, 3039-3060.	1.7	52
18	ECMWF Activities for Improved Hurricane Forecasts. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 445-458.	1.7	44

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19	Experimental Subseasonal to Seasonal (S2S) Forecasting of Atmospheric Rivers Over the Western United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11242-11265.	1.2	36
20	Eastern Canada Flooding 2017 and its Subseasonal Predictions. <i>Atmosphere - Ocean</i> , 2019, 57, 195-207.	0.6	22
21	Treatment of model uncertainty from radiation by the Stochastically Perturbed Parametrization Tendencies (SPPT) scheme and associated revisions in the ECMWF ensembles. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 75-89.	1.0	22
22	Seasonal Tropical Cyclone Forecasting. <i>Tropical Cyclone Research and Review</i> , 2019, 8, 134-149.	1.0	40
23	Impact of the QBO on Prediction and Predictability of the MJO Convection. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11766-11782.	1.2	25
24	Tropical Cyclone Prediction on Subseasonal Time-Scales. <i>Tropical Cyclone Research and Review</i> , 2019, 8, 150-165.	1.0	26
25	ENSO Modulation of MJO Teleconnections to the North Atlantic and Europe. <i>Geophysical Research Letters</i> , 2019, 46, 13535-13545.	1.5	60
26	Prediction and predictability of tropical intraseasonal convection: seasonal dependence and the Maritime Continent prediction barrier. <i>Climate Dynamics</i> , 2019, 52, 6015-6031.	1.7	54
27	Representation of Synoptic-scale Rossby Wave Packets and Blocking in the S2S Prediction Project Database. <i>Geophysical Research Letters</i> , 2019, 46, 1070-1078.	1.5	39
28	Sub-seasonal to Seasonal Prediction of Weather Extremes. , 2019, , 365-386.		13
29	Global Assessment of Atmospheric River Prediction Skill. <i>Journal of Hydrometeorology</i> , 2018, 19, 409-426.	0.7	69
30	Predicting Sudden Stratospheric Warming 2018 and Its Climate Impacts With a Multimodel Ensemble. <i>Geophysical Research Letters</i> , 2018, 45, 13,538.	1.5	95
31	Prediction of the Madden-Julian Oscillation: A Review. <i>Journal of Climate</i> , 2018, 31, 9425-9443.	1.2	117
32	Can the Direct Effect of Aerosols Improve Subseasonal Predictability?. <i>Monthly Weather Review</i> , 2018, 146, 3481-3498.	0.5	28
33	Subseasonal Tropical Cyclone Genesis Prediction and MJO in the S2S Dataset. <i>Weather and Forecasting</i> , 2018, 33, 967-988.	0.5	62
34	How far in advance can we predict changes in large-scale flow leading to severe cold conditions over Europe?. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 1788-1802.	1.0	60
35	Summary of workshop on sub-seasonal to seasonal predictability of extreme weather and climate. <i>Npj Climate and Atmospheric Science</i> , 2018, 1, .	2.6	12
36	The sub-seasonal to seasonal prediction project (S2S) and the prediction of extreme events. <i>Npj Climate and Atmospheric Science</i> , 2018, 1, .	2.6	194

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37	The Subseasonal to Seasonal (S2S) Prediction Project Database. Bulletin of the American Meteorological Society, 2017, 98, 163-173.	1.7	617
38	Sampling variability and the changing ENSO–monsoon relationship. Climate Dynamics, 2017, 48, 4071-4079.	1.7	37
39	Potential applications of subseasonal-to-seasonal (<sc>S2S</sc>) predictions. Meteorological Applications, 2017, 24, 315-325.	0.9	265
40	Seamless precipitation prediction skill comparison between two global models. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 374-383.	1.0	39
41	Simulations of the Asian summer monsoon in the sub-seasonal to seasonal prediction project (<sc>S2S</sc>) database. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2282-2295.	1.0	67
42	Madden–Julian Oscillation prediction and teleconnections in the S2S database. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2210-2220.	1.0	212
43	Stochastic representations of model uncertainties at ECMWF: state of the art and future vision. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2315-2339.	1.0	170
44	MJO Propagation across the Maritime Continent in the ECMWF Ensemble Prediction System. Journal of Climate, 2016, 29, 3973-3988.	1.2	62
45	Seasonal Forecasts of Tropical Cyclone Activity in a High-Atmospheric-Resolution Coupled Prediction System*. Journal of Climate, 2016, 29, 1179-1200.	1.2	38
46	Influence of the Eurasian snow on the negative North Atlantic Oscillation in subseasonal forecasts of the cold winter 2009/2010. Climate Dynamics, 2016, 47, 1325-1334.	1.7	47
47	Impact of springtime Himalayan–Tibetan Plateau snowpack on the onset of the Indian summer monsoon in coupled seasonal forecasts. Climate Dynamics, 2016, 47, 2709-2725.	1.7	53
48	ERA-20C: An Atmospheric Reanalysis of the Twentieth Century. Journal of Climate, 2016, 29, 4083-4097.	1.2	807
49	Vertical structure and physical processes of the Madden–Julian Oscillation: Biases and uncertainties at short range. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4749-4763.	1.2	26
50	Enhanced long-range forecast skill in boreal winter following stratospheric strong vortex conditions. Environmental Research Letters, 2015, 10, 104007.	2.2	61
51	Atmospheric predictability and Rossby wave packets. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2793-2802.	1.0	62
52	Vertical structure and physical processes of the Madden–Julian oscillation: Linking hindcast fidelity to simulated diabatic heating and moistening. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4690-4717.	1.2	63
53	ERA-Interim/Land: a global land surface reanalysis data set. Hydrology and Earth System Sciences, 2015, 19, 389-407.	1.9	483
54	Global Distribution of the Skill of Tropical Cyclone Activity Forecasts on Short- to Medium-Range Time Scales. Weather and Forecasting, 2015, 30, 1695-1709.	0.5	40

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55	Improving and Promoting Subseasonal to Seasonal Prediction. Bulletin of the American Meteorological Society, 2015, 96, ES49-ES53.	1.7	146
56	Understanding and modelling extra-tropical teleconnections with the Indo-Pacific region during the northern winter. Climate Dynamics, 2015, 45, 3119-3140.	1.7	37
57	ENSO Prediction in Project Minerva: Sensitivity to Atmospheric Horizontal Resolution and Ensemble Size. Journal of Climate, 2015, 28, 2080-2095.	1.2	30
58	Global versus Local MJO Forecast Skill of the ECMWF Model during DYNAMO. Monthly Weather Review, 2014, 142, 2228-2247.	0.5	56
59	Evolution of ECMWF sub-seasonal forecast skill scores. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 1889-1899.	1.0	276
60	Impact of snow initialization on sub-seasonal forecasts. Climate Dynamics, 2013, 41, 1969-1982.	1.7	77
61	Understanding advances in the simulation of intraseasonal variability in the ECMWF model. Part I: The representation of the MJO. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 1417-1426.	1.0	49
62	Understanding advances in the simulation of intraseasonal variability in the ECMWF model. Part II: The application of process-based diagnostics. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 1427-1444.	1.0	51
63	Objective verifications and false alarm analyses of western North Pacific tropical cyclone event forecasts by the ECMWF 32-day ensemble. Asia-Pacific Journal of Atmospheric Sciences, 2013, 49, 409-420.	1.3	22
64	Cracking the MJO nut. Geophysical Research Letters, 2013, 40, 1223-1230.	1.5	154
65	Intraseasonal Forecasting of the Asian Summer Monsoon in Four Operational and Research Models*. Journal of Climate, 2013, 26, 4186-4203.	1.2	46
66	Impact of the sea surface temperature forcing on hindcasts of Madden-Julian Oscillation events using the ECMWF model. Ocean Science, 2012, 8, 1071-1084.	1.3	21
67	ECMWF seasonal forecast system 3 and its prediction of sea surface temperature. Climate Dynamics, 2011, 37, 455-471.	1.7	127
68	Evaluation of the ECMWF 32-day ensemble predictions during 2009 season of western North Pacific tropical cyclone events on intraseasonal timescales. Asia-Pacific Journal of Atmospheric Sciences, 2011, 47, 305-318.	1.3	28
69	The ERA-Interim reanalysis: configuration and performance of the data assimilation system. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 553-597.	1.0	20,227
70	The Second Phase of the Global Land-Atmosphere Coupling Experiment: Soil Moisture Contributions to Subseasonal Forecast Skill. Journal of Hydrometeorology, 2011, 12, 805-822.	0.7	296
71	Predictability of tropical cyclone events on intraseasonal timescales with the ECMWF monthly forecast model. Asia-Pacific Journal of Atmospheric Sciences, 2010, 46, 135-153.	1.3	48
72	Simulation of the Madden-Julian Oscillation and its teleconnections in the ECMWF forecast system. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 842-855.	1.0	209

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73	A Framework for Assessing Operational Madden-Julian Oscillation Forecasts. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 1247-1258.	1.7	202
74	A Comparison of Dynamical and Statistical Predictions of Weekly Tropical Cyclone Activity in the Southern Hemisphere. <i>Monthly Weather Review</i> , 2010, 138, 3671-3682.	0.5	81
75	Dynamical Extended-Range Prediction of Early Monsoon Rainfall over India. <i>Monthly Weather Review</i> , 2009, 137, 1480-1492.	0.5	27
76	Impact of the Madden-Julian Oscillation on tropical storms and risk of landfall in the ECMWF forecast system. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	92
77	Advances in simulating atmospheric variability with the ECMWF model: From synoptic to decadal time-scales. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 1337-1351.	1.0	497
78	The new VarEPS-monthly forecasting system: A first step towards seamless prediction. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 1789-1799.	1.0	129
79	Probabilistic Verification of Monthly Temperature Forecasts. <i>Monthly Weather Review</i> , 2008, 136, 5162-5182.	0.5	42
80	Monthly Forecast of the Madden-Julian Oscillation Using a Coupled GCM. <i>Monthly Weather Review</i> , 2007, 135, 2700-2715.	0.5	107
81	Impact of greenhouse gas concentrations on tropical storms in coupled seasonal forecasts. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2007, 59, 417-427.	0.8	4
82	Dynamically-based seasonal forecasts of Atlantic tropical storm activity issued in June by EUROSIP. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	99
83	The role of the ocean in the Madden-Julian Oscillation: Implications for MJO prediction. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 117-128.	1.0	175
84	The Experimental MJO Prediction Project. <i>Bulletin of the American Meteorological Society</i> , 2006, 87, 425-431.	1.7	50
85	Improving Week-2 Forecasts with Multimodel Reforecast Ensembles. <i>Monthly Weather Review</i> , 2006, 134, 2279-2284.	0.5	32
86	Seasonal forecasting of tropical storm frequency using a multi-model ensemble. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2006, 132, 647-666.	1.0	71
87	An Ensemble Generation Method for Seasonal Forecasting with an Ocean-Atmosphere Coupled Model. <i>Monthly Weather Review</i> , 2005, 133, 441-453.	0.5	69
88	Monthly Forecasting at ECMWF. <i>Monthly Weather Review</i> , 2004, 132, 2761-2779.	0.5	133
89	Westerly Wind Events and the 1997/98 El Niño Event in the ECMWF Seasonal Forecasting System: A Case Study. <i>Journal of Climate</i> , 2003, 16, 3153-3170.	1.2	28
90	Seasonal Forecasting of Tropical Cyclone Landfall over Mozambique. <i>Journal of Climate</i> , 2003, 16, 3932-3945.	1.2	83

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91	Salinity Adjustments in the Presence of Temperature Data Assimilation. Monthly Weather Review, 2002, 130, 89-102.	0.5	67
92	Sensitivity of Atlantic Tropical Storm Frequency to ENSO and Interdecadal Variability of SSTs in an Ensemble of AGCM Integrations. Journal of Climate, 2001, 14, 533-545.	1.2	62
93	Seasonal Forecasting of Tropical Storms Using Coupled GCM Integrations. Monthly Weather Review, 2001, 129, 2521-2537.	0.5	112
94	Sensitivity of tropical storms simulated by a general circulation model to changes in cumulus parametrization. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 25-51.	1.0	34
95	Impact of Large-Scale Circulation on Tropical Storm Frequency, Intensity, and Location, Simulated by an Ensemble of GCM Integrations. Journal of Climate, 1999, 12, 3237-3254.	1.2	41
96	Simulation of Interannual Variability of Tropical Storm Frequency in an Ensemble of GCM Integrations. Journal of Climate, 1997, 10, 745-760.	1.2	166
97	Influence of trends on subseasonal temperature prediction skill. Quarterly Journal of the Royal Meteorological Society, 0, , .	1.0	3