

# Eric Wolanski

## List of Publications by Year in descending order

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136  
papers

8,508  
citations

38660

50  
h-index

48187

88  
g-index

138  
all docs

138  
docs citations

138  
times ranked

7901  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dams and climate change accelerate channel avulsion and coastal erosion and threaten Ramsar-listed wetlands in the largest Great Barrier Reef watershed. <i>Ecohydrology and Hydrobiology</i> , 2022, 22, 197-212.	1.0	8
2	Jon Brodie Memorial: The sources, fates and consequences of pollutants in tropical shelf systems. <i>Marine Pollution Bulletin</i> , 2022, 179, 113669.	2.3	0
3	Using Optical Water-Type Classification in Data-Poor Water Quality Assessment: A Case Study in the Torres Strait. <i>Remote Sensing</i> , 2022, 14, 2212.	1.8	1
4	Are Tanzanian National Parks affected by the water crisis? Findings and ecohydrology solutions. <i>Ecohydrology and Hydrobiology</i> , 2021, 21, 425-442.	1.0	6
5	Managing wetlands to solve the water crisis in the Katuma River ecosystem, Tanzania. <i>Ecohydrology and Hydrobiology</i> , 2021, 21, 211-222.	1.0	6
6	The intrusion of polluted Fly River mud into Torres Strait. <i>Marine Pollution Bulletin</i> , 2021, 166, 112243.	2.3	2
7	Behavioural and oceanographic isolation of an island-based jellyfish ( <i>Copula sivickisi</i> , Class Cubozoa) population. <i>Scientific Reports</i> , 2021, 11, 10280.	1.6	3
8	Oceanographic chaos and its role in larval self-recruitment and connectivity among fish populations in Micronesia. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 259, 107461.	0.9	3
9	The net water circulation in the far Northern Great Barrier Reef. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 235, 106569.	0.9	4
10	Island building and overfishing in the Spratly Islands archipelago are predicted to decrease larval flow and impact the whole system. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 233, 106545.	0.9	7
11	Integrating science in the management of enclosed seas – A synthesis. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 234, 106647.	0.9	1
12	Modelling the ingress of a temperate fish larva into a nursery coastal lagoon. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 235, 106601.	0.9	9
13	Behavioural maintenance of highly localised jellyfish ( <i>Copula sivickisi</i> , class Cubozoa) populations. <i>Marine Biology</i> , 2020, 167, 1.	0.7	9
14	Drivers of recovery and reassembly of coral reef communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182908.	1.2	70
15	Swimming Abilities of Temperate Pelagic Fish Larvae Prove that they May Control their Dispersion in Coastal Areas. <i>Diversity</i> , 2019, 11, 185.	0.7	19
16	The application of nutrient budget models to determine the ecosystem health of the Wami Estuary, Tanzania. <i>Ecohydrology and Hydrobiology</i> , 2018, 18, 107-119.	1.0	12
17	Restoring the perennial Great Ruaha River using ecohydrology, engineering and governance methods in Tanzania. <i>Ecohydrology and Hydrobiology</i> , 2018, 18, 120-129.	1.0	15
18	Trapping of plastics in semi-enclosed seas: Insights from the Bohai Sea, China. <i>Marine Pollution Bulletin</i> , 2018, 137, 509-517.	2.3	37

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19	Wind Conditions on the Great Barrier Reef Influenced the Recruitment of Snapper (Lutjanus) Tj ETQq1 1 0.784314 192 / Overlock 10 13	0.784314	192
20	The Serengeti will die if Kenya dams the Mara Riverâ€”CORRIGENDUM. Oryx, 2018, 52, 195-195.	0.5	0
21	Bounded and unbounded boundaries â€” Untangling mechanisms for estuarine-marine ecological connectivity: Scales of m to 10,000Åkm â€” A review. Estuarine, Coastal and Shelf Science, 2017, 198, 378-392.	0.9	29
22	The Gulf of Carpentaria heated Torres Strait and the Northern Great Barrier Reef during the 2016 mass coral bleaching event. Estuarine, Coastal and Shelf Science, 2017, 194, 172-181.	0.9	23
23	Submesoscale tidal eddies in the wake of coral islands and reefs: satellite data and numerical modelling. Ocean Dynamics, 2017, 67, 897-913.	0.9	25
24	The Serengeti will die if Kenya dams the Mara River. Oryx, 2017, 51, 581-583.	0.5	12
25	Does behaviour affect the dispersal of flatback post-hatchlings in the Great Barrier Reef?. Royal Society Open Science, 2017, 4, 170164.	1.1	23
26	Sensitivity analysis of the physical dynamics of the Fly River plume in Torres Strait. Estuarine, Coastal and Shelf Science, 2017, 194, 84-91.	0.9	9
27	Estuarine ecological structure and functioning. , 2016, , 157-193.		4
28	International scientists discuss impact on Chinaâ€™s estuarine and coastal environment by intensive anthropogenic activities â€” The 2nd workshop on sediment dynamics of muddy coasts and estuaries: Physics, biology and their interactions, Zhoushan, China, 23â€”26 October, 2015. Estuarine, Coastal and Shelf Science, 2016, 168, ii-iii.	0.9	2
29	Long-term isolation and local adaptation in Palauâ€™s Nikko Bay help corals thrive in acidic waters. Coral Reefs, 2016, 35, 909-918.	0.9	40
30	Ecoengineering with Ecohydrology: Successes and failures in estuarine restoration. Estuarine, Coastal and Shelf Science, 2016, 176, 12-35.	0.9	132
31	Both riverine detritus and dissolved nutrients drive lagoon fisheries. Estuarine, Coastal and Shelf Science, 2016, 183, 360-369.	0.9	12
32	Biophysical processes leading to the ingress of temperate fish larvae into estuarine nursery areas: A review. Estuarine, Coastal and Shelf Science, 2016, 183, 187-202.	0.9	60
33	Mangrove plantation over a limestone reef â€” Good for the ecology?. Estuarine, Coastal and Shelf Science, 2016, 173, 57-64.	0.9	27
34	The need to enforce minimum environmental flow requirements in Tanzania to preserve estuaries: case study of mangrove-fringed Wami River estuary. Ecohydrology and Hydrobiology, 2015, 15, 171-181.	1.0	20
35	The transport and fate of riverine fine sediment exported to a semi-open system. Estuarine, Coastal and Shelf Science, 2015, 167, 336-346.	0.9	32
36	The fate of phosphorus in the Yangtze (Changjiang) Estuary, China, under multi-stressors: Hindsight and forecast. Estuarine, Coastal and Shelf Science, 2015, 163, 1-6.	0.9	25

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37	What processes control the net currents through shallow straits? A review with application to the Bohai Strait, China. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 158, 1-11.	0.9	60
38	Oceanographic Currents and Local Ecological Knowledge Indicate, and Genetics Does Not Refute, a Contemporary Pattern of Larval Dispersal for The Ornate Spiny Lobster, <i>Panulirus ornatus</i> in the South-East Asian Archipelago. <i>PLoS ONE</i> , 2015, 10, e0124568.	1.1	25
39	Oceanographic and behavioural assumptions in models of the fate of coral and coral reef fish larvae. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140209.	1.5	70
40	Numerical modelling and graph theory tools to study ecological connectivity in the Great Barrier Reef. <i>Ecological Modelling</i> , 2014, 272, 160-174.	1.2	87
41	Coastal Ecosystems: A Critical Element of Risk Reduction. <i>Conservation Letters</i> , 2014, 7, 293-301.	2.8	157
42	Suspended particulate matter affects the nutrient budget of turbid estuaries: Modification of the LOICZ model and application to the Yangtze Estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2013, 127, 59-62.	0.9	37
43	The net water circulation through Torres strait. <i>Continental Shelf Research</i> , 2013, 64, 66-74.	0.9	35
44	An assessment of residence times of land-sourced contaminants in the Great Barrier Reef lagoon and the implications for management and reef recovery. <i>Marine Pollution Bulletin</i> , 2012, 65, 267-279.	2.3	51
45	Fine sediment and nutrient dynamics related to particle size and floc formation in a Burdekin River flood plume, Australia. <i>Marine Pollution Bulletin</i> , 2012, 65, 236-248.	2.3	171
46	“Sticky water”™ enables the retention of larvae in a reef mosaic. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 101, 54-63.	0.9	64
47	The way forward with ecosystem-based management in tropical contexts: Reconciling with existing management systems. <i>Marine Policy</i> , 2012, 36, 1-10.	1.5	86
48	Predicting Coral Recruitment in Palau’s Complex Reef Archipelago. <i>PLoS ONE</i> , 2012, 7, e50998.	1.1	34
49	Future makers or future takers? A scenario analysis of climate change and the Great Barrier Reef. <i>Global Environmental Change</i> , 2011, 21, 876-893.	3.6	102
50	Modelling the fate of marine turtle hatchlings. <i>Ecological Modelling</i> , 2011, 222, 1515-1521.	1.2	51
51	Dynamics of hypersaline coastal waters in the Great Barrier Reef. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 94, 299-305.	0.9	50
52	The present and future role of coastal wetland vegetation in protecting shorelines: answering recent challenges to the paradigm. <i>Climatic Change</i> , 2011, 106, 7-29.	1.7	740
53	Ecosystem Services as a Common Language for Coastal Ecosystem-Based Management. <i>Conservation Biology</i> , 2010, 24, 207-216.	2.4	246
54	Road will ruin Serengeti. <i>Nature</i> , 2010, 467, 272-273.	13.7	86

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55	A review of the water crisis in Tanzania's protected areas, with emphasis on the Katuma River–Lake Rukwa ecosystem. <i>Ecohydrology and Hydrobiology</i> , 2010, 10, 153-165.	1.0	27
56	Quantifying the impact of watershed urbanization on a coral reef: Maunalua Bay, Hawaii. <i>Estuarine, Coastal and Shelf Science</i> , 2009, 84, 259-268.	0.9	65
57	Nonlinearity in ecosystem services: temporal and spatial variability in coastal protection. <i>Frontiers in Ecology and the Environment</i> , 2009, 7, 29-37.	1.9	622
58	Ecohydrology as a tool for the survival of the threatened Serengeti ecosystem. <i>Ecohydrology and Hydrobiology</i> , 2009, 9, 115-124.	1.0	26
59	Papyrus wetlands, nutrients balance, fisheries collapse, food security, and Lake Victoria level decline in 2000–2006. <i>Wetlands Ecology and Management</i> , 2008, 16, 89-96.	0.7	46
60	Flow separation and vertical motions in a tidal flow interacting with a shallow-water island. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 77, 457-466.	0.9	28
61	Wet season fine sediment dynamics on the inner shelf of the Great Barrier Reef. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 77, 755-762.	0.9	67
62	A multi-scale model of the hydrodynamics of the whole Great Barrier Reef. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 79, 143-151.	0.9	102
63	Coastal Ecosystem-Based Management with Nonlinear Ecological Functions and Values. <i>Science</i> , 2008, 319, 321-323.	6.0	834
64	Watersheds and Coral Reefs: Conservation Science, Policy, and Implementation. <i>BioScience</i> , 2007, 57, 598-607.	2.2	102
65	Study of the nutrient and plankton dynamics in Lake Tanganyika using a reduced-gravity model. <i>Ecological Modelling</i> , 2007, 200, 225-233.	1.2	27
66	The combined impact on the flooding in Vietnam's Mekong River delta of local man-made structures, sea level rise, and dams upstream in the river catchment. <i>Estuarine, Coastal and Shelf Science</i> , 2007, 71, 110-116.	0.9	227
67	Papyrus wetlands a lunar-modulated refuge for aquatic fauna. <i>Wetlands Ecology and Management</i> , 2006, 14, 359-363.	0.7	13
68	The influence of wetlands, decaying organic matter, and stirring by wildlife on the dissolved oxygen concentration in eutrophicated water holes in the Seronera River, Serengeti National Park, Tanzania. <i>Wetlands Ecology and Management</i> , 2006, 14, 421-425.	0.7	13
69	Sedimentation in mangroves and coral reefs in a wet tropical island, Pohnpei, Micronesia. <i>Estuarine, Coastal and Shelf Science</i> , 2006, 66, 409-416.	0.9	66
70	High-resolution, unstructured meshes for hydrodynamic models of the Great Barrier Reef, Australia. <i>Estuarine, Coastal and Shelf Science</i> , 2006, 68, 36-46.	0.9	67
71	The evolution time scale of macro-tidal estuaries: Examples from the Pacific Rim. <i>Estuarine, Coastal and Shelf Science</i> , 2006, 66, 544-549.	0.9	20
72	An ecohydrology model of the Guadiana Estuary (South Portugal). <i>Estuarine, Coastal and Shelf Science</i> , 2006, 70, 132-143.	0.9	67

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73	Predicting the impact of present and future human land-use on the Great Barrier Reef. <i>Estuarine, Coastal and Shelf Science</i> , 2005, 64, 504-508.	0.9	52
74	Fine sediment budget on an inner-shelf coral-fringed island, Great Barrier Reef of Australia. <i>Estuarine, Coastal and Shelf Science</i> , 2005, 65, 153-158.	0.9	85
75	A model of the effects of land-based, human activities on the health of coral reefs in the Great Barrier Reef and in Fouha Bay, Guam, Micronesia. <i>Journal of Marine Systems</i> , 2004, 46, 133-144.	0.9	78
76	The influence of wetlands in regulating water quality in the Seronera River, Serengeti National Park, Tanzania. <i>Wetlands Ecology and Management</i> , 2004, 12, 301-307.	0.7	13
77	The role of wetlands in wildlife migration in the Tarangire ecosystem, Tanzania. <i>Wetlands Ecology and Management</i> , 2004, 12, 285-299.	0.7	29
78	Undular tidal bore dynamics in the Daly Estuary, Northern Australia. <i>Estuarine, Coastal and Shelf Science</i> , 2004, 60, 629-629.	0.9	1
79	Water and fine sediment dynamics in transient river plumes in a small, reef-fringed bay, Guam. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 56, 1029-1040.	0.9	58
80	Trapping of fine sediment in a semi-enclosed bay, Palau, Micronesia. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 57, 941-949.	0.9	52
81	Mud, Marine Snow and Coral Reefs. <i>American Scientist</i> , 2003, 91, 44.	0.1	63
82	Chapter Eleven Fine sediment dynamics in the mangrove-fringed, muddy coastal zone. <i>Proceedings in Marine Science</i> , 2002, 4, 279-292.	0.1	5
83	Chapter Twenty-One Mud threat to the Great Barrier Reef of Australia. <i>Proceedings in Marine Science</i> , 2002, 4, 533-542.	0.1	6
84	Computer Visualization in Marine Science and Technology. <i>Marine Technology Society Journal</i> , 2002, 36, 86-87.	0.3	0
85	Water circulation and fish larvae recruitment in papyrus wetlands, Rubondo Island, Lake Victoria. <i>Wetlands Ecology and Management</i> , 2002, 10, 131-141.	0.7	22
86	Settling of muddy marine snow. <i>Wetlands Ecology and Management</i> , 2002, 10, 283-287.	0.7	9
87	Salinity intrusion and rice farming in the mangrove-fringed Konkoure River delta, Guinea. <i>Wetlands Ecology and Management</i> , 2000, 8, 29-36.	0.7	15
88	Visualization in Marine Science. <i>Estuarine, Coastal and Shelf Science</i> , 2000, 50, 7-9.	0.9	3
89	Environmental degradation by mud in tropical estuaries. <i>Regional Environmental Change</i> , 2000, 1, 152-162.	1.4	49
90	Oxygen cycle in a hippo pool, Serengeti National Park, Tanzania. <i>African Journal of Ecology</i> , 1999, 37, 419-423.	0.4	34

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91	Patchiness in the Fly River plume in Torres Strait. <i>Journal of Marine Systems</i> , 1999, 18, 369-381.	0.9	18
92	Water, Migration and the Serengeti Ecosystem. <i>American Scientist</i> , 1999, 87, 526.	0.1	27
93	Title is missing!. <i>Mangroves and Salt Marshes</i> , 1998, 2, 223-230.	0.6	57
94	Title is missing!. <i>Mangroves and Salt Marshes</i> , 1998, 2, 237-242.	0.6	48
95	Title is missing!. <i>Mangroves and Salt Marshes</i> , 1998, 2, 205-221.	0.6	32
96	Wildlife-water quality interactions in the Serengeti National Park, Tanzania. <i>African Journal of Ecology</i> , 1998, 36, 1-14.	0.4	52
97	Seasonal dispersion of petroleum contaminants in the Gulf of Thailand. <i>Continental Shelf Research</i> , 1998, 18, 641-659.	0.9	29
98	Island-generated internal waves at Scott Reef, Western Australia. <i>Continental Shelf Research</i> , 1998, 18, 1649-1666.	0.9	24
99	Drag force due to vegetation in mangrove swamps. <i>Mangroves and Salt Marshes</i> , 1997, 1, 193-199.	0.6	277
100	Directional Swimming of Fish Larvae Determines Connectivity of Fish Populations on the Great Barrier Reef. <i>Die Naturwissenschaften</i> , 1997, 84, 262-268.	0.6	82
101	Three-dimensional island wakes in the field, laboratory experiments and numerical models. <i>Continental Shelf Research</i> , 1996, 16, 1437-1452.	0.9	90
102	Sedimentation in Mangrove Forests. <i>Mangroves and Salt Marshes</i> , 1996, 1, 3-10.	0.6	210
103	Fine-sediment Dynamics in the Mekong River Estuary, Vietnam. <i>Estuarine, Coastal and Shelf Science</i> , 1996, 43, 565-582.	0.9	169
104	Tidal current variability in the Central Great Barrier Reef. <i>Journal of Marine Systems</i> , 1996, 9, 187-202.	0.9	29
105	Kinematics of phalarope spinning. <i>Nature</i> , 1996, 384, 121-121.	13.7	23
106	Dynamics of the turbidity maximum in the Fly River estuary, Papua New Guinea. <i>Estuarine, Coastal and Shelf Science</i> , 1995, 40, 321-337.	0.9	124
107	Wind-driven upwelling in Opunohu Bay, Moorea, French Polynesia. <i>Estuarine, Coastal and Shelf Science</i> , 1995, 40, 57-66.	0.9	11
108	Upwelling by internal waves, Tahiti, French Polynesia. <i>Continental Shelf Research</i> , 1995, 15, 357-368.	0.9	67

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109	Water circulation in the Gulf of Papua. <i>Continental Shelf Research</i> , 1995, 15, 185-212.	0.9	69
110	Carbonate mud in Mataiva Atoll, French Polynesia: Suspension and export. <i>Marine Pollution Bulletin</i> , 1994, 29, 36-41.	2.3	6
111	Water circulation in the Gulf of Carpentaria. <i>Journal of Marine Systems</i> , 1993, 4, 401-420.	0.9	45
112	Resuspension and clearing of dredge spoils after dredging, Cleveland Bay, Australia. <i>Water Environment Research</i> , 1992, 64, 910-914.	1.3	17
113	Settling of ocean-dumped dredged material, Townsville, Australia. <i>Estuarine, Coastal and Shelf Science</i> , 1992, 35, 473-489.	0.9	31
114	A three-dimensional model of the water circulation around an island in shallow water. <i>Continental Shelf Research</i> , 1992, 12, 891-906.	0.9	41
115	The effect of flocs on optical backscattering measurements of suspended material concentration. <i>Marine Geology</i> , 1992, 107, 289-291.	0.9	37
116	Longitudinal diffusion in mangrove-fringed tidal creeks. <i>Estuarine, Coastal and Shelf Science</i> , 1990, 31, 541-554.	0.9	36
117	Dynamics, flushing and trapping in Hinchinbrook channel, a giant mangrove swamp, Australia. <i>Estuarine, Coastal and Shelf Science</i> , 1990, 31, 555-579.	0.9	85
118	Mixing, trapping and outwelling in the Klong Ngao mangrove swamp, Thailand. <i>Estuarine, Coastal and Shelf Science</i> , 1990, 31, 667-688.	0.9	80
119	Flushing of Bowden Reef lagoon, Great Barrier Reef. <i>Estuarine, Coastal and Shelf Science</i> , 1990, 31, 789-804.	0.9	34
120	Links between physical, chemical and biological processes in Bashita-minato, a mangrove swamp in Japan. <i>Estuarine, Coastal and Shelf Science</i> , 1990, 31, 817-833.	0.9	34
121	Mixing across a lutocline. <i>Limnology and Oceanography</i> , 1989, 34, 931-938.	1.6	50
122	Trapping and dispersion of coral eggs around Bowden Reef, Great Barrier Reef, following mass coral spawning. <i>Continental Shelf Research</i> , 1989, 9, 479-496.	0.9	77
123	Tidal jets, nutrient upwelling and their influence on the productivity of the alga <i>Halimeda</i> in the Ribbon Reefs, Great Barrier Reef. <i>Estuarine, Coastal and Shelf Science</i> , 1988, 26, 169-201.	0.9	130
124	Outwelling from tropical tidal salt flats. <i>Estuarine, Coastal and Shelf Science</i> , 1988, 26, 243-253.	0.9	52
125	Closure to "Modeling Tidal Circulation in an Island's Wake" by Robert A. Falconer, Eric Wolanski, and Lida Mardapitta-Hadjipandeli (March, 1986, Vol. 112, No. 2). <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1988, 114, 106-110.	0.5	0
126	Currents through Torres Strait. <i>Journal of Physical Oceanography</i> , 1988, 18, 1535-1545.	0.7	72



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127	Some evidence for boundary mixing near coral reefs. <i>Limnology and Oceanography</i> , 1987, 32, 735-739.	1.6	13
128	Friction-controlled selective withdrawal near inlets. <i>Estuarine, Coastal and Shelf Science</i> , 1987, 24, 327-333.	0.9	11
129	An evaporation-driven salinity maximum zone in Australian tropical estuaries. <i>Estuarine, Coastal and Shelf Science</i> , 1986, 22, 415-424.	0.9	126
130	Tidal mixing and trapping in mangrove swamps. <i>Estuarine, Coastal and Shelf Science</i> , 1986, 23, 759-771.	0.9	101
131	A Simple Analytical Model of Low-Frequency Wind-Driven Upwelling on a Continental Slope. <i>Journal of Physical Oceanography</i> , 1986, 16, 1694-1702.	0.7	3
132	Observations of wind-driven surface gravity waves offshore from the Great Barrier Reef. <i>Coral Reefs</i> , 1986, 4, 213-219.	0.9	11
133	Modeling Tidal Circulation in an Island's Wake. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1986, 112, 234-254.	0.5	60
134	Currents and flushing of Britomart reef lagoon, Great Barrier Reef. <i>Coral Reefs</i> , 1983, 2, 1-8.	0.9	17
135	Tides on the Northern Great Barrier Reef Continental Shelf. <i>Journal of Geophysical Research</i> , 1983, 88, 5953-5959.	3.3	16
136	Low-Level Trade Winds Over the Western Coral Sea. <i>Journal of Applied Meteorology</i> , 1982, 21, 881-882.	1.1	21