

## SCIENTIFIC CURRICULUM VITAE

### 1. Personal details

1	Full name	Roger Keith Smith	Year of birth	22/5/1943	Male <input checked="" type="checkbox"/> ; Female <input type="checkbox"/>
	Academic title	University of Munich	Administrative position	Associate Professor	
2	Institution and address				
	Department	Meteorological Institute, Theresienstr. 37 80333 Munich, GERMANY			
3	Telephone	(08152) 70345	Mobile	Tel: (089) 2394 4383	
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### 2. Qualifications:

Year	Academic Institution	Major	Academic degree
1961	U.K. State	Mathematics	Scholarship
1962	University of Manchester	Dalton Mathematics Prize	Scholarship
1964	University of Manchester.	Mathematics	B.Sc
1968	University of Manchester.	Applied Mathematics/Fluid Mechanics	Ph.D.
1972	Ministry of Education,	Environmental and Land Planning Engineering	Post-doctoral Scholarship

### 3. Personal experience:

Year	Institution	Address	Position
2003-present	Charles Darwin University; Meteorology	Darwin, Australia; University of Munich	Adjunct Professor, Professor
1989-2003	Meteorology (C4)	University of Munich	Professor
1985 - 1988	Applied Mathematics	Monash University; University of Munich (6 months)	Reader; Visiting Professor
1973-1984	Applied Mathematics; Geophysical Fluid Dynamics Laboratory; Department of Meteorology	Monash University; U.K. Meteorological Office (two week periods); University of Helsinki (Apr. - Jul.)	Senior Lecturer; Vacation Consultant; Visiting Scientist.
1971- 1972	Applied Mathematics,	University of Edinburg	Lecturer
1968-1971	Applied mathematics	Monash University	Lecturer

1966-1968	University of Manchester	England (two academic years)	Assistant Lecturer
1964	Deputy Secretary General of the World Meteorological Organization,	Geneva, Switzerland (2 months)	Assistant
1963	Meteorological Research Unit, Royal Radar Establishment	Malvern, England (2 months)	Vacation student

4. Language (Rating: A- Poor; B- Fair; C- Sufficient; D- Fluent)

Language	Reading	Writing	Speaking
Germany	D	D	D
English	D	D	D

5. Expertise and research interests

5.1. Main research orientation (within the last 5 years)

- Tropical cyclones
- Tropical cloud lines: The morning glory and related phenomena
- Subtropical and tropical continental cold fronts
- Heat lows

5.2. List of research projects (within the last 5 years)

No	Project name	Funding institution and funded amount	Duration	Position/role in the project

5.3. Publications and accomplishments (*List all articles in specialized scientific journals, scientific conference proceedings, and scientific awards, in order: author's name; year of publication; name of research results published; journal name / publisher; number, volume release; site of construction; ISSN number*).

5.3.1 Articles in science and technology journal are on the list of SCI, SCIE, SSCI or AHCI of the Institute of Information Science (ISI), USA (including ISSN number)

No	Author	Year	Publications	Publishers/No, vol, page	ISSN/I SBN	Proof (*)	Notes
1	R. K. SMITH	1968	Radiation effects on large fire plumes. Eleventh International Symposium on Combustion,	(Berkeley, 1966) 507-515.			
2	R. K. SMITH	1968	The surface boundary layer of a hurricane.	Tellus, 20, 473-484			
3	R. K. SMITH	1969	The constraints of the airflow above fires. Proc. TCP Mass Fire Symposium	(Canberra), 33pp.			
4	R. K. SMITH	1969	On the effects of vorticity entrainment in zonal jet flows.	J. Atmos. Sci., 26, 1233-1237			
5	A. E. Gill and R. K. SMITH	1970	On similarity solutions of the differential equation .....	Proc. Camb. Phil. Soc., 67, 163-171.			

6	R. K. SMITH	1970	The laminar free-convection boundary layer on a vertical heated plate in the neighbourhood of a discontinuity in plate temperature.	Austr. Math. Soc., 11, 148-168.			
7	L. M. Leslie and R. K. SMITH,	1970	The surface boundary layer of a hurricane - Part II.	Tellus, 22, 288-297.			
8	L. M. Leslie, B. R. Morton and R. K. SMITH	1970	On modelling tornadoes, Quart.	J. Roy. Met. Soc. 96, 544-548.			
9	A. D. McEwan, D. W. Mander and R. K. SMITH,	1972	Forced resonant second-order interaction between damped internal waves.	J. Fluid Mech., 55,589-608			
10	R. K. SMITH	1974	On limit cycles and vacillating baroclinic waves.	J. Atmos. Sci., 31, 2008-2011.			
11	L. M. Leslie and R. K. SMITH	1974	A numerical study of katabatic winds and their effects on pollutant dispersal in urban areas. Proc. Conf. on Hydraul. Fluid Dyn.	Christchurch, New Zealand, 553-560			
12	R. K. SMITH	1975	A note on a theory of vacillating baroclinic waves.	J. Atmos. Sci., 32, 2027			
13	L. Bode and R. K. SMITH	1975	A parameterization of the boundary layer of a tropical cyclone. Bound.	Layer Met., 8, 3-19.			
14	L. Bode, L. M. Leslie and R. K. SMITH	1975	A numerical study of boundary effects on concentrated vortices with application to tornadoes and waterspouts.	Quart. J. Roy. Met. Soc., 101, 313-324.			
15	B. R. Morton, L. M. Leslie and R. K. SMITH	1975	The role of dynamic pressure in generating fire wind.	J. Fluid Mech., 68, 1-19.			
16	B. R. Morton, M. E. McIntyre and R. K. SMITH	1976	Contribution to Tornado Forum.	Nature, 260, 457-458.			
17	R. K. SMITH and L. M. Leslie	1976	Thermally driven vortices: A numerical study with application to dust devil dynamics. Quart.	J. Roy. Met. Soc.,102, 791-804.			

18	R. K. SMITH	1977.	On a theory of amplitude vacillation in baroclinic waves.	J. Fluid Mech., 79, 289-298.			
19	L. M. Leslie, J. V. Mansbridge and R. K. SMITH,	1977	Comments on Effect of a precipitation-driven downdraft on a rotating wind field: a possible trigger mechanism for tornadoes?	J. Atmos. Sci., 34, 548-549.			
20	L. M. Leslie and R. K. SMITH	1977	On the choice of radial boundary conditions for numerical models of sub-synoptic vortex flows in the atmosphere with application to dust devils. Quart.	J. Roy. Met. Soc., 103, 499-510			
21	R. K. SMITH and J. Reilly,	1977	On the theory of amplitude vacillation in baroclinic waves: some solutions.	J. Atmos. Sci., 34, 1256-1260.			
22	R. K. SMITH.	1977.	Theories of Atmospheric Fronts: a review. Royal Meteorological Society (Australian Branch).	Workshop on Fronts Handbook - invited review paper 7.1 - 7.13, Bureau of Meteorology, Melbourne, May 1977			
23	L. M. Leslie and R. K. SMITH,	1978.	Tornadogenesis.	Quart. J. Roy. Met. Soc., 104, 189-198.			
24	R. K. SMITH	1978.	Tornado Dynamics, Proc.	Third U.S.Conference on Wind Engineering, Gainesville, Florida (26 Feb. - 1 March), invited review paper.			
25	L. M. Leslie and R. K. SMITH	1978	The effect of vertical stability on tornadogenesis.	J. Atmos. Sci., 35, 1281-1288.			
26	R. K. SMITH and L. M. Leslie,	1979.	A numerical study of tornadogenesis in a rotating thunderstorm.	Quart. J. Roy. Met. Soc., 105, 107-127			
27	R. K. SMITH	1980.	Tropical cyclone eye dynamics.	J. Atmos. Sci., 37, 1227-1232.			
28	R. K. SMITH	1980.	, (1980): Untwisting the mysteries of tornadoes.	New Scientist, 85, 650-652			
29	R. K. SMITH and J. Goodfield,	1981	The Morning Glory Expedition.	Weather, 36, 130-136.			
30	R. H. Clarke, R. K. SMITH and D. G. Reid	1981	The Morning Glory of the Gulf of Carpentaria: an	Mon. Wea. Rev., 109,1726-1750.			

			atmospheric undular bore.				
31	R. K. SMITH	1981	The cyclostrophic adjustment of vortices with application to tropical cyclone modification.	J. Atmos. Sci., 38, 2020-2030.			
32	B. F. Ryan, R. K. SMITH, J. R. Garrat and M. H. van Dijk	1981	Strategy and Logistics of Phase I of the Cold Fronts Research Programme, Chapter I of Bureau of Meteorology Tech.	Rep. No. 46 on the Cold Fronts Research Programme..			
33	L. M. Leslie and R. K. SMITH.	1982.	Numerical studies of tornado structure and genesis.	Invited Paper, Proc. Intern. Symp. on Intense Atmospheric Vortices (Reading, U.K., 1981), Springer-Verlag, 205-213.			
34	R. K. SMITH, N. Crook and G. Roff	1982	Morning Glory: an extraordinary atmospheric undular bore.	Quart. J. Roy. Met. Soc., 198, 937-956.			
35	R. K. SMITH, B. F. Ryan, A. J. Troup and K. H. Wilson	1982	: Cold Fronts Research: The Australian summertime cool change.	Bull. Amer. Met. Soc., 63, 1028-1934.			
36	J. V. Mansbridge and R. K. SMITH	1983	Resonant interaction between baroclinic waves.	J. Atmos. Sci., 40, 378-395.			
37	P. Howells and R. K. SMITH	1983	Numerical simulations of tornado-like vortices: Part I, vortex evolution.	Geo. Astro. Fluid Dyn., 27, 284-298.			
38	R. K. SMITH and P. Howells	1983	Numerical simulations of tornado-like vortices: Part II, two-cell vortices.	Geo. Astro. Fluid Dyn., 27, 284-298..			
39	R. K. SMITH and B. R. Morton	1984.	An observational study of northeasterly 'Morning glory' wind surges.	Aust. Met. Mag., 32, 155-175.			
40	S. Haase and R. K. SMITH	1984	'Morning glory' wave clouds in Oklahoma: a case study. .	Mon. Wea. Rev., 112, 2078-2089			
41	J. R. Garratt, W. L. Physick, R. K. SMITH and A. J. Troup,	1985	The Australian summertime cool change: Part II, mesoscale aspects.	Mon. Wea. Rev., 113,202-223.			
42	J. A. Noonan and R. K. SMITH.	1985	Linear and weakly nonlinear internal wave theories applied to 'morning glory' waves.	Geo. Astro. Fluid Dyn., 29, 123-143			

43	A. ComC. E. Coulman, J. R. Colquhoun, R. K. SMITH and K. McInnes	1985	Orographically forced cold fronts - mean structure and motion.	Bound. Layer Met., 32, 57-83.			
44	B. F. Ryan, K. J. Wilson, J. R. Garratt and R. K. SMITH	1985	Cold Fronts Research Programme: Progress, Future and Plans and Research Directions.	Bull. Amer. Met. Soc., 66, 1118-1122..			
45	J. R. Colquhoun, D. J. Shepherd, C. E. Coulman, R. K. SMITH and K. McInnes	1985	The southerly buster of southeastern Australia: An orographically forced cold front.	Mon. Wea. Rev., 113, 2090-2107.			
46	W. L. Physick and R. K. SMITH	1985	Observations and dynamics of sea breezes in northern Australia.	Aust. Met. Mag., 33, 51-63.			
47	R. K. SMITH and M. A. Page	1985	'Morning glory' wind surges and the Gulf of Carpentaria cloud line of 25-26 October 1984.	Aust. Met. Mag., 33, 185-194			
48	M. J. Reeder and R. K. SMITH,	1986.	A comparison between frontogenesis in the two-dimensional Eady model of baroclinic instability and summertime cold fronts in the Australian region.	Quart. J. Roy. Met. Soc., 112, 293-313.			
49	R. K. SMITH, M. J. Coughlan and J. Evans-Lopez	1986	Southerly nocturnal wind surges and bores in northeastern Australia.	Mon. Wea. Rev., 114, 1501-1518.			
50	R. K. SMITH	1986	Evening Glory' wave-cloud lines in northwestern Australia.	Aust. Met. Mag., 34, 27-33.			
51	J. A. Noonan and R. K. SMITH	1986	Sea breeze circulations over Cape York Peninsula and the generation of Gulf of Carpentaria cloud line disturbances.	J. Atmos. Sci., 43, 1679-1693			
52	K. P. Hoinka and R. K. SMITH	1986	A questionnaire on Cold Fronts in Alpine Regions,	Hydrology and Earth System Science, 17, 1-16,			
53	G.J. Holland, J.L. McBride, R.K. SMITH, D. Jasper and T. Keenan	1986	The BMRC Australian Monsoon Experiment: AMEX.	Bull. Amer. Met. Soc., 67, 1466-1472			
54	M. J. Reeder and R. K. SMITH,	1987.	A study of frontal dynamics with application to the Australian summertime 'cool change'.	J. Atmos. Sci., 44, 687-705.			

55	J. A, Noonan and R. K. SMITH	1987	The Generation of the North Australian Cloud Line and the 'Morning Glory'.	Aust. Met. Mag., 35, 31-45.,			
56	J. T, Steiner, C. G. Revell, R. N. Ridley, R. K. SMITH, M. A. Page K. McInnes and A. P. Sturman	1987	The New Zealand Southerly Change Experiment.	Bull. Amer. Met. Soc., 68, 1226-1229.			
57	P. Howells, R. Rotunno and R. K. SMITH,	1988	Numerical studies on the evolution of vortex breakdown in tornado-like vortices.	Quart. J. Roy. Met. Soc., 114, 801-822.			
58	R. K. SMITH and M. J. Reeder	1988	On the movement and low-level structure of cold fronts.	Mon. Wea. Rev., 116, 1927-1944.			
59	K. P. Hoinka and R. K. SMITH	1988	A dry cold front in southern Bavaria.	Weather, 43, 255-260.			
60	R. K. SMITH	1988	Waves and bores in the lower atmosphere: the 'morning glory' and related phenomena. Invited review paper.	Earth Sci. Rev., 25, 267-290.			
61	M. J. Reeder and R. K. SMITH	1988	On the horizontal resolution of fronts in numerical weather prediction models.	Aus. Met. Mag., 36, 11-16.			
62	M. J. Reeder and R. K. SMITH	1988	On air motion trajectories in cold fronts.	J. Atmos. Sci., 45, 4005-4007			
63	S. P. Haase and R. K. SMITH	1989	The numerical simulation of atmospheric gravity currents. Part I. Neutrally-stable environments.	Geo. Astro. Fluid Dyn., 46, 1-33			
64	S. P. Haase and R. K. SMITH	1989	The numerical simulation of atmospheric gravity currents. Part II. Environments with stable layers.	Geo. Astro. Fluid Dyn., 46, 35-51.			
65	W. Drosowsky, G. J. Holland and R. K. SMITH	1989	Structure and evolution of North Australian cloud lines during AMEX Phase I.	Mon. Wea. Rev., 117, 1181-1192			
66	R. K. SMITH, W. Ulrich and G. Dietachmayer	1990	A numerical study of tropical cyclone motion using a barotropic model. Part I. The role of vortex asymmetries.	Quart. J. Roy. Met. Soc., 116, 337-362.			

67	R. K. SMITH and W. Ulrich	1990	An analytical study of tropical cyclone motion using a barotropic model.	J. Atmos. Sci., 47, 1973-1986			
68	R. K. SMITH and R. N. Ridley	1990	Subtropical continental cold fronts.	Aust. Met. Mag., 38, 91-200.			
69	R. K. SMITH	1990	Surface pressure fields in balanced air mass models of fronts.	Mon. Wea. Rev., 118, 1922-1926.			
70	A. P. Sturman, R. K. SMITH, M. A. Page, R. N. Ridley and J. T. Steiner	1990	Meso-scale surface wind changes associated with the passage of cold fronts along the eastern side of the Southern Alps, New Zealand.	Meteorol. Atmos. Phys., 42, 133- 143.			
71	W. Ulrich and R. K. SMITH	1991	A numerical study of tropical cyclone motion using a barotropic model. Part II. Spatially-varying large-scale flows.	Quart. J. Roy. Met. Soc., 117, 107-124.			
72	R. K. SMITH, R. N. Ridley, M. A. Page, J. T. Steiner and A. P. Sturman	1991	Southerly changes on the East Coast of New Zealand.	Mon. Wea. Rev., 119, 1259-1282.			
73	M. J. Reeder, R. K. SMITH and S. J. Lord	1991	The detection of large scale asymmetries in the tropical cyclone environment.	Mon. Wea. Rev., 119, 848-854.			
74	R. K. SMITH	1991	An analytic theory of tropical cyclone motion in a barotropic shear flow.	Quart. J. Roy. Met. Soc., 117, 685-714.			
75	H. Weber and R. K. SMITH	1991	The stability of barotropic vortices: implications for tropical cyclone motion. In Contributions to Atmospheric Physics	DLR Research Report - DLR-FB 91-30, (Eds. Schumann and Hoinka), 51-63			
76	J. Kepert and R. K. SMITH,	1992	A simple model for the West Australian Heat Trough.	Mon. Wea. Rev., 120, 2042-2055			
77	M. J. Reeder, R. K. SMITH and S. J. Lord, 1992:	1992	Reply to comments by Holland et al.	Mon. Wea. Rev., 120, 2398-2400.			
78	M. J. Reeder, R. K. SMITH	1992	Australian spring and summer cold fronts.	Aust. Met. Mag., 41, 101-124.			
79	H. C. Weber and R. K. SMITH,	1993	The stability of barotropic vortices: implications for tropical cyclone motion.	Geo. Astro. Fluid Dyn., 70, 1-30			
80	R. K. SMITH and W. Ulrich	1993	Vortex motion in relation to the absolute vorticity gradient of the environment.	Quart. J. Roy. Met. Soc., 119, 207-215			



81	R. K. SMITH	1993	On the theory of tropical cyclone motion. In Tropical Cyclone Disasters.	Ed. Lighthill et al., Peking University Press, Beijing, 264-279.			
82	R. K. SMITH and H. C. Weber	1993	An extended analytic theory of tropical cyclone motion.	Quart. J. Roy. Met. Soc., 119, 1149-1166.			
83	J. D. Möller and R. K. SMITH,	1994	The development of potential vorticity in a hurricane-like vortex.	Quart. J. Roy. Met. Soc., 120, 1255-1265.			
84	R. K. SMITH, M. J. Reeder, N. J. Tapper and D. R. Christie	1995	Central Australian cold fronts.	Mon. Wea. Rev., 123, 16-38.			
85	R. K. SMITH, H. C. Weber and A. Kraus	1995	On the symmetric circulation of a moving hurricane.	Quart. J. Roy. Met. Soc., 121, 945-952.			
86	H. C. Weber and R. K. SMITH	1995	Data sparsity and the tropical cyclone analysis and prediction problem: some simulation experiments with a barotropic model.	Quart. J. Roy. Met. Soc., 121, 631-654.			
87	A. Kraus, R. K. SMITH and W. Ulrich	1995	The barotropic dynamics of tropical cyclone motion in a large-scale deformation field.	Beitr. Phys.Atmos., 68, 249-261.			
88	M. J. Reeder, D. R. Christie, R. K. SMITH and R. Grimshaw	1995	Nonlinear waves and bores over northern Australia.	Bull. Amer. Meteor. Soc., 123, 1165-1171.			
89	A. Glatz and R. K. SMITH,	1996	Vorticity asymmetries in Hurricane Josephine (1984).	Quart. J. Roy. Met. Soc., 122, 391-413.			
90	R. K. SMITH,	1997	On the theory of CISK.	Quart. J. Roy. Met. Soc., 123, 407-418.			
91	A. Menhofer, R. K. SMITH, M. J. Reeder and D. R. Christie	1997	"Morning Glory" disturbances and the environment in which they propagate.	J. Atmos. Sci., 54, 1712-1725			
92	A. Menhofer, R. K. SMITH, M. J. Reeder and D. R. Christie	1997	The bore-like character of three morning glories observed during the Central Australian Fronts Experiment.	Aust. Met. Mag., 46, 277-285.			
93	S. P. Haase-Straub, M. Hagen, T. Hauf, D. Heimann, M.	1997	The squall line of 21 July 1992 in southern Germany: an observational case study.	Contr. Atmos. Phys., 70: 147-165.			

	Peristeri, and R. K. SMITH						
94	R. K. SMITH (Ed.)	1997	<i>The physics and parameterization of moist atmospheric convection.</i>	NATO Series. Kluwer, Dortrecht, 498pp			
95	R. M Hell and R. K. SMITH	1998	A monsoon depression over northwestern Australia. Part I: A case study.	Aust. Met. Mag., 47, 21-40.			
96	K. Dengler and R. K. SMITH	1998	A monsoon depression over northwestern Australia. Part II: A numerical model study.	Aust. Met. Mag., 47, 135-144			
97	R. K. SMITH and J. A. Noonan	1998	On the generation of low-level mesoscale convergence lines over northeastern Australia.	Mon. Wea. Rev. 126, 167-185			
98	J. Callaghan and R. K. SMITH	1998	The relationship between maximum surface wind speeds and central pressure in tropical cyclones.	Aust. Met. Mag. 47, 191-202.			
99	M. J. Reeder and R. K. SMITH	1998	Mesoscale meteorology in the Southern Hemisphere. Chapter 5 of Meteorology of the Southern Hemisphere. Ed. D. J. Karoly and D. Vincent.	American Meteorological Society Monograph, No. 49, 201-241.			
100	R. K. SMITH and A. Glatz	1998	The detection of hurricane asymmetries from aircraft reconnaissance flight data: some simulation experiments.	Quart. J. Roy. Met. Soc., 124, 2715-2728			
101	Zs. RÁCZ and R. K. SMITH,	1999	The dynamics of heat lows.	Quart. J. Roy. Met. Soc., 125, 225-252.			
102	M. Juckes and R. K. SMITH,	2000	Convective destabilization by tropical upper-level troughs.	Quart. J. Roy. Met. Soc., 126, 111-123.			
103	M. Peristeri, W. Ulrich and R. K. SMITH	2000	Genesis conditions for thunderstorm growth and the development of a squall line in the northern alpine foreland.	Meteor. Atmos. Phys., 72, 251- 260.			
104	H. Weber and R. K. SMITH	2000	A monsoon depression over northwestern Australia. Part III: Motion. Aust.	Meteor. Mag., 49, 1-21			
105	R. K. SMITH, W. Ulrich and G. Sneddon	2000	The dynamics of vortices in vertical shear flows.	Quart. J. Roy. Met. Soc., 126, 2653-2670.			
106	R. K. SMITH	2000	The role of cumulus convection in hurricanes	Rev. Geophys., 38, 465-489			

			and its representation in hurricane models.			
107	M. J. Reeder, R. K. SMITH, R. Deslandes, N. J. Tapper and G. A. Mills	2000	Subtropical fronts observed during the 1996 Central Australian Fronts Experiment.	Aust. Meteor. Mag., 49, 181-200.		
108	H. Zhu, R. K. SMITH and W. Ulrich,	2001	A minimal three-dimensional tropical cyclone model.	J. Atmos. Sci., 58, 1924-1944.		
109	R. K. SMITH, G. Garden, J. Molinari and B. R. Morton,	2002	, Proceedings of an International Workshop on the Dynamics and Forecasting of Tropical Weather Systems.	Bull. Amer. Meteor. Soc., 82, 2825-2829		
110	H. Zhu and R. K. SMITH,	2003	Effects of vertical differencing in a minimal hurricane model.	Quart. J. Roy. Met. Soc., 129, 1051-1069		
111	H. Zhu, W. Ulrich, and R. K. SMITH,	2004	Ocean effects on tropical cyclone intensification and inner-core asymmetries.	J. Atmos. Sci., 61, 1245-1258.		
112	R. K. SMITH, M. T. Montgomery, and H. Zhu,	2005	Buoyancy in tropical cyclones and other rapidly rotating atmospheric vortices.	Dyn. Ocean Atmos. Ocean, 40, 189-208.		
113	R. K. SMITH	2006	Accurate determination of a balanced axisymmetric vortex in a compressible atmosphere.	Tellus, 58A, 98-103		
114	B. Weinzierl, R. K. SMITH, M. J. Reeder, and G. Jackson,	2007	MesoLAPS predictions of low-level convergence lines over northeastern Australia.	Wea. Forecasting, 22, 910-927.		
115	G. L. Thomsen and R. K. SMITH,	2008	The importance of the boundary layer parameterization in the prediction of low-level convergence lines.	Mon. Wea. Rev. 136, 2173-2185.		
116	G. L. Thomsen, M. J. Reeder, and R. K. SMITH,	2009	The diurnal evolution of cold fronts in the Australian subtropics .	Quart. J. Roy Met. Soc., 135, 395-411		
117	Nudelman, R. K. SMITH, and M. J. Reeder,	2010	A climatology of pressure jumps around the Gulf of Carpentaria.	Aust. Meteor. and Ocean. Journl., 60, 91-101		
118	U. Wissmeier, and R. K. SMITH,	2011	Tropical-cyclone convection: the effects of ambient vertical vorticity.	Quart. J. Roy Met. Soc., 137, 845-857.		

119	R. K. SMITH, and M. T. Montgomery,	2012	Observations of the convective environment in developing and non-developing tropical disturbances	. Quart. J. Roy Met. Soc., 138, 1721-1739			
120	R. K. SMITH and M. T. Montgomery	2013	How important is the isothermal expansion effect to elevating equivalent potential temperature in the hurricane inner-core?	Quart. J. Roy Met. Soc.,			
121	G. L. Thosmen, M. T. Montgomery, and R. K. SMITH,	2014	Sensitivity of tropical cyclone intensification to perturbations in the surface drag coefficient .	Quart. J. Roy Met. Soc., 140, 407-415.			
122	R. K. SMITH and M. T. Montgomery	2014	On the existence of the logarithmic surface layer in hurricanes .	Quart. J. Roy. Met. Soc., 140, 72-81			
123	G. Kilroy, R. K. SMITH and U. Wissmeier	2014	Tropical cyclone convection: the effects of ambient vertical and horizontal vorticity .	Quart. J. Roy Meteor. Soc., 140, 1756-1770			
124	M. T. Montgomery, J. A. Zhang, and R. K. SMITH	2014	The low-level structure of rapidly intensifying and mature Hurricane Earl (2010).	Quart. J. Roy. Meteor. Soc., 140, 2132-2146.			
125	N. T. Sanger, M. T. Montgomery, R. K. SMITH, and M. M. Bell	2014	An observational study of tropical cyclone spin-up in Supertyphoon Jangmi (2008) from 24 - 27 September.	Mon. Wea. Rev., 142, 3-28.			
126	G. Kilroy, and R. K. SMITH,	2015	Tropical-cyclone convection: the effects of a vortex boundary layer wind profile on deep convection.	Quart. J. Roy. Meteor. Soc. 141, 714-726			
127	R. K. SMITH, G. Kilroy, and M. T. Montgomery	2015	Why do model tropical cyclones intensify more rapidly at low latitudes?	J. Atmos. Sci., 72, 1783-1804			
128	G. Thomsen, R. K. SMITH, and M. T. Montgomery,	2015	Tropical-cyclone flow asymmetries induced by a uniform flow revisited.	J. Adv. Model. Earth Syst., 07, doi:10.1002/.			
129	R. K. SMITH, M. T. Montgomery, G. Kilroy, S. Tang, and S. Müller,	2015	Tropical low formation during the Australian monsoon: the events of January 2013.	Aust. Meteor. Ocean. Journl., 65, 318-341.			
130	G. Kilroy, R. K. SMITH, M.	2016	Why do model tropical cyclones grow	J. Atmos. Sci., 73, 487-503.			

	T. Montgomery,		progressively in size and decay in intensity after reaching maturity?				
131	N. Črnivec, R. K. SMITH, and G. Kilroy,	2016	Dependence of tropical cyclone intensification rate on sea surface temperature.	Quart. J. Roy. Meteor. Soc., 142, 1618-1627			
132	C. W. Schmidt and R. K. SMITH,	2016	Tropical cyclone evolution in a minimal axisymmetric model revisited.	Quart. J. Roy. Meteor. Soc., 142, 1505-1516.			
133	N. Črnivec and R. K. SMITH,	2016	Mean radiosonde soundings for the Australian monsoon/cyclone season	Intern. J. Clim., 37, 66-78.			
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150	M. T. Montgomery and R. K. SMITH	2019	Towards understanding the dynamics of spin up in Emanuel's tropical cyclone model.	J. Atmos. Sci. (in press)			

5.3.2 Other published or registered research results (international, domestic, reports, scientific awards, ...)

No	Author	Year	Publications	Publishers/No, vol, page	ISSN/ISBN	Proof (*)	Notes

5.3.3 Published books/textbooks

No	Author	Year	Publications	Publishers/No, vol, page	ISSN/ISB N	Proof (*)	Notes

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