## Agenda for Future of Cumulus Parametrization Workshop

Monday 10 July	Setting the Scene	
0830-0900	Registration	
Session 1	Perspectives	
0900-0930	Welcome and Workshop goals	Pier Siebesma and Christian Jakob
0930-1000	What should a cumulus parametrization do?	Cathy Hohenegger
1000-1030	What should a cumulus parametrization do?	Dave Randall
1030-1100	Coffee Break	
1100-1130	Cumulus parametrization: A Global NWP perspective on challenges in the tropical regions	Peter Bechtold
1130-1200	Cumulus Parametrization using higher- order closures	Peter Bogenschutz
1200-1330	Lunch	
Session 2	Supporting Cumulus Parametrization	
1330-1400	Radiative regulation of tropical convection as implied from satellite observations	Hiro Masunaga
1400-1430	What can we learn from ground-based observations?	Louise Nuijens
1430-1500	What can we learn from atmospheric soundings, simple models, and complex models in idealized settings?	Kerry Emanuel
1500-1530	High Cloud Responses to a Warming SST in Radiative Convective Equilibrium Experiments using a Global Non- hydrostatic Model	Masaki Satoh
1530-1600	Coffee	
Session 3	Where the rubber hits the road!	
1600-1715	Practioners' perspectives on cumulus parametrization	Alison Stirling Masahiro Watanabe Catherine Rio Guang Zhang

10-14 July 2017, Delft University of Technology, The Netherlands

		Parthasarathi Mukhopadhyay
1715-1745	Convective Parameterization — Full Steam in the Wrong Direction.	Bjorn Stevens
1800	Ice Breaker	
Tuesday 11 July	Organized convection	
0900-0930	Organized convectionwhat is it and what needs parameterizing?	Robert Houze
0930-0945	Conceptual model of a shallow circulation induced by low-level radiative cooling	Ann-Kristin Naumann
0945-1000	When Good Connections Matter: Updraft Merging in Organized Tropical Deep Convection	lan B. Glenn
1000-1015	The role of 3D radiative transfer in the formation of cloud streets	Fabian Jakub
1015-1030	Interaction of radiation, clouds and dynamics in midlatitude cyclones	Sophia Schäfer
1030-1100	Coffee	
1100-1300	Poster Session 1	
1300-1400	Lunch	
1400-1415	Land/Ocean Contrasts in Precipitation Characteristics Observed with the GPM DPR and Their Relationship to Column Relative Humidity	Yukari N. Takayabu
1415-1430	Radiative-convective equilibrium and the organisation of convection - An observational perspective	Christian Jakob
1430-1445	Effects of the changing heating profile associated with melting layers in a climate model	Hongyan Zhu
1445-1500	Effects of parameterised convection on large-scale flow in comprehensive and idealised models	Penelope Maher
1500-1515	Impacts of modifying the convection scheme in ECHAM6.3 on simulated daily to intra-seasonal tropical precipitation variability	Karsten Peters
1515-1530	Object tracking in LES for parameterization development	Fleur Couvreux

	Coffee	
1530-1600		
1600-1730	Breakout groups 1	
Wednesday 12	Transitions	
July		
0900-0930	Diurnal cycles and convection	Pierre Gentine
0000 00 45	Challess and an acceptus medae in	
0930-0945	Shallow cumulus and congestus modes in	Louise Nuijens
	circulating equilibria of the tropical	
	atmosphere in a two-column RCE model	
0945-1000	Local factors governing the stratocumulus	Xabier Pedruzo-
	break-up and evolution in Southern West	Bagazgoitia
	Africa	
1000-1015	Fine Simulations for Parameterization of	Jan Chylik
	Mixed-phase Arctic Cumulus	
1015-1030	Unscrambling anvil development – from	Harald Rybka
	low to very high resolution modelling of	
	deep convection	
1030-1100	Coffee	
1100-1300	Poster Session 2	
1300-1400	Lunch	
1400-1415	Coastal Tropical Convection in a Stochastic	Martin Bergemann
	Modeling Framework	
1415-1430	Low-level thermodynamics as the	Maxime Colin
	dominant source for convective memory	
1430-1445	A new multi-plume stochastic Eddy-	Kay Sušelj
	Diffusivity/Mass-Flux model:	
	A step towards unified turbulence and	
	convection parameterization	
1445-1500	The new CNRM convection	Romain Roehrig
	parameterization: current	Ū
	status and ongoing developments	
1500-1515	Developments and applications using the	Georg A. Grell
	scale and aerosol aware Grell-Freitas	
	convection parameterization	
1515-1530	A scale-adaptive turbulence scheme in the	Rachel Honnert
	grey zone of turbulence	
1530-1600	Coffee Break	
1000		

1600-1730	Breakout groups 2	
1900-late	Dinner	
Thursday 13 July	Stochastic parametrizations and the Grey Zone	
0900-0930	Stochastic parametrization	Robert Plant
0930-0945	A new stochastic, scale-aware grey-zone convection scheme based on boundary- layer turbulence statistics	Mike Whitall
0945-1000	Testing the super-parameterization of deep convection in the grey-zone	Stefan Tulich
1000-1015	Examining Chaotic Convection with Super- Parameterization Ensembles	Todd R. Jones
1015-1030	An Estimate of intrinsic limits of predictability using a stochastic convection scheme	Tobias Selz
1030-1100	Coffee	
1100-1300	Poster Session 3	
1300-1400	Lunch	
1400-1415	The impact of a simple, physically-based stochastic boundary-layer parametrization on the development of deep convection in a convection-permitting model	Peter Clark
1415-1430	Convective Updraft Velocities in Parameterizations and the Gray Zone	Leo Donner
1430-1445	Development of stochastics models of convective cloud populations	Samson Hagos
1445-1500	Sensitivity of ECMWF ensemble forecasts to different stochastic representations of model uncertainty associated with convection	Sarah-Jane Lock
1500-1515	Comparison of parameterized/resolved cloud top height with satellite observation	Kengo Matsubayashi
1515-1530	Using LES as a testing ground for developing scale-aware cumulus parameterizations	Roel Neggers
1530-1600	Coffee	
1600-1730	Breakout groups 3	

Friday 14 July	The Future	
0900-1030	Reports from the breakout groups	Chairs and
		Rapporteurs
1030-1100	Coffee	
1100-1130	What we think we heard this week	The Organizing
		Commitee
1130-1230	The great debate	Plenary Discussion
1230	Workshop closes	