Program 2022 storm track workshop final draft			Affiliation	Presentation
Sun 29 May				
17:00-18:30		**Picking up bikes at "Local à vélo" (see map)**		
18:30-19:30		**Welcome/aperitif at the bar**		
19:30		**Dinner**		
Mon 30 May				
8:00-8:45		**Picking up bikes at "Local à vélo" (see map)**		
8:45-9:00		**Introduction**		
		Session 1: overview talks / part 1 (Chair: Gwendal Rivière)		
9:00-9:45	Rachel White	Large-scale controls on the climatological midlatitude storm-tracks	**U British Columbia**	1
9:45-10:30	Volkmar Wirth	Rossby Waves on the Midlatitude Jet	**Mainz**	1
10:30-11:00		**Coffee Break**		
		Session 1: overview talks / part 2 (Chair: David Thompson)		
11:00-11:45	Camille Li	Jet streams and storm tracks in global climate models	**Bergen**	1
11:45-12:30	Hanna Joos	Diabatic processes in the extratropical stormtracks	**ETH**	1
12:30-14:00		**Lunch**		
		Session 2: Internal storm-track processes		
		Part 1: Idealized modelling / mechanisms (Chair: Lenka Novak)		
14:00-14:15	Thomas Birner	Having fun with idealized baroclinic-wave life-cycle experiments	**Munich**	1
14:15-14:30	Maarten Ambaum	Eddy saturation in storm tracks	**Reading**	1
14:30-14:45	Nili Harnik	Quasi resonance in a leaky waveguide?	**Tel Aviv**	1
14:45-15:00	Pragallva Barpanda	What causes atmospheric blocks? - A new perspective using the finite amplitude wave activity theory	**Chicago**	1
15:00-15:15	Gabriele Messori	Characterizing Atmospheric Jet Regimes Across Different Datasets and Climates	**Uppsala**	1
15:15-15:30	Andrea Marcheggiani	Heat flux peaks in the evolution of weather systems	**Reading**	1

15:30-16:00		**Coffee Break**		
16:00-18:00		**Poster session**		
19:00		**Dinner**		
Tue 31 May				
		Session 2 / part 2 : Extreme and impact (Chair: Kai Kornhuber)		
9:00-9:15	Michael Riemer	Rossby wave packets and blocked weather regimes: a quantitative potential-vorticity perspective	**Mainz**	1
9:15-9:30	Ruud Sperna Weiland	Intransitive Atmosphere Dynamics Leading to Persistent Hot–Dry or Cold–Wet European Summers	**KNMI, Netherlands**	1
9:30-9:45	Alexandre Tuel	Large-scale precursors to the summer 2021 European weather extremes	**Bern**	1
9:45-10:00	Fabio D'Andrea	Linking Warm Arctic Winters, Rossby Waves, and Cold Spells: An Idealized Numerical Study	**LMD**	1
10:00-10:15	Jacopo Riboldi	Revisiting the connection between cold spells over North America and wet/windy extremes over Europe	**Uppsala**	1
10:15-10:30	Francis Codron	Atmospheric Rivers in Antarctica : characteristics and impacts	**LOCEAN, Paris**	1
10:30-11:00		**Coffee break**		
		Session 2 / part 3: Diabatic processes (Chair: Marta Wenta)		
11:00-11:15	Heini Wernli	The importance of diabatic processes for cyclone and stormtrack dynamics – a review with an emphasis on research in the 20th century	**ETH**	1
11:15-11:30	Matthieu Kohl	Diabatic Rossby Vortices - Extratropical cyclones in which latent heating is dominant	**MIT**	1
11:30-11:45	Rodrigo Caballero	Atlantic cyclones drive warm extremes in the high Arctic via diabatically-mediated high latitude blocking	**Stockholm U.**	1
11:45-12:00	Chris Weijenborg	Global climatology of Cyclone Clustering	**WUR, Netherlands**	1
12:00-12:15	Behrooz Keshtgar	Cloud radiative impact on the dynamics and predictability of an idealized extratropical cyclone	**KIT**	1
		Energetics		
12:15-12:30	Satoru Okajima	A new look at atmospheric energetics: cyclonic and anticyclonic contributions and their interactions with the jet stream	**Tokyo U**.	1

12:30-14:00		**Lunch**		
14:00-17:00		**Recreation time** (hiking, biking, kayaking, tennis, visit of oyster farm, visit of birds reserve, etc.)		
		Session 2 / part 4 (Chair: Hanin Binder)		
17:00-17:15	Hisashi Nakamura	An energetic perspective on the midwinter minimum of the North Pacific storm track activity	**Tokyo U.**	1
		Midwinter suppression / detection / Mediterranean		
17:15-17:30	Yohai Kaspi	Suppression of Baroclinic Eddies by Strong Jets: a Mechanism for the Midwinter Minimum	**Weizmann**	1
17:30-17:45	Clemens Spensberger	Separating eddy driven and subtropical jets in reanalyses	**Bergen**	1
17:45-18:00	Leonardo Aragao	North Atlantic storms contribution to cyclogenesis into the Mediterranean Sea	**U. Bologna**	1
18:00-18:15	Dor Sandler	Linking Eastern Mediterranean Cyclones to the Variability of the North Atlantic Storm Track	**Tel Aviv**	1
18:15-18:30	Shira Raveh-Rubin	The link between Rossby-wave breaking, cyclones, severe winds and air-sea interaction: the case of the Mistral wind	**Weizmann**	1
19:00	**Dinner**			
Wed 1 June				
		Session 3: interactions with other components of the Earth climate		
		Part 1: Ocean (Chair: Natalia Tilinina)		
9:00-9:30	Thomas Spengler	On the influence of sea surface temperature fronts on cyclone development	**Bergen**	1
9:30-9:45	Simchan Yook	The simulated atmospheric response to western North Pacific sea-surface temperature anomalies	**Colorado S U.**	1
9:45-10:00	Helen Dacre	Coupling between cyclone tracks and North Atlantic sea surface temperatures	**Reading**	1
10:00-10:15	Tiffany Shaw	Stormier Southern Hemisphere induced by topography and ocean circulation	**Chicago**	1
10:15-10:30	Ryss Parfitt	Western boundary current influence on storm-tracks - pre-conditioning, direct effect, both or neither?	**Florida S U.**	1
10:30-11:00		**Coffee Break**		

		Session 3 / part 2 (Chair: Jacopo Riboldi)		
11:00-11:15	Natalia Tilinina	Explosive extratropical cyclones impact onto the ocean mixed layer properties in high resolution coupled model experiments	**LGE, Grenoble**.	1
11:15-11:45	Dim Coumou	Drivers of summertime quasi-stationary waves: Insights from causal discovery algorithms and climate modeling experiments	**VU, Netherlands**	1
		Tropics/extratropics interactions		
11:45-12:00	Reinhard Schiemann	The role of post-tropical cyclones for European extreme weather	**Reading**	1
12:00-12:15	Lenka Novak	The seasonal march of the subtropical jet	**Caltech**	1
12:15-12:30	Pablo Zurita-Gotor	The role of baroclinic eddies in preventing terrestrial superrotation	**Madrid**	1
12:30-14:00		**Lunch**		
		Session 3 / part 3 (Chair: Lukas Papritz)		
		Polar/extratropics interactions		
14:00-14:30	Nicole Feldl	Idealized perspectives on polar-midlatitude linkages	**U. California, Santa Cruz**	1
14:30-14:45	Joonsuk M. Kang	Sea Ice Loss Weakens Storminess During Northern Hemisphere Summertime	**Chicago**	1
		Stratosphere-troposphere interactions		
14:45-15:15	Daniela Domeisen	Stratospheric influence on the North Atlantic storm track	**Lausanne U., ETH**	1
15:15-15:30	Chaim Garfinkel	Differences and similarities in the storm track response to stratospheric sudden warmings vs. ozone depletion	**Hebrew U.**	1
15:30-16:00		**Coffee Break**		
16:00-18:00		**Poster session 2**		
19:00		**Dinner**		
Thu 2 June				
		Session 4: representation of storm tracks in models (Chair: Dominik Büeler)		
9:00-9:30	Mark Rodwell	The Cyclogenesis Butterfly: Uncertainty growth and forecast reliability during extratropical cyclogenesis	**ECMWF**	1
9:30-10:00	Christian Grams	The impact of multi-scale interactions related to cyclone dynamics on sub-seasonal predictability of the extratropical large-scale circulation	**KIT**	1

10:00-10:15	Meryl Wimmer	Impact of deep convection parameterization of a global atmospheric model on the warm conveyor belts and the jet stream	**LMD**	1
10:15-10:30	Lina Boljka	What causes boreal summer blocking bias in climate models?	**Bergen**	1
10:30-11:00		**Coffee Break**		
		Session 5: Storm tracks in past and future climates		
		Session 5 / part 1 (chair: Matthew Priestley)		
11:00-11:30	Jennifer Catto	Storm tracks and their impacts in present and future climate	**Exeter**	1
11:30-11:45	Thomas Batelaan	The Atmospheric General Circulation Response to Polar Amplification on an Aquaplanet	**WUR, Netherlands**	1
11:45-12:00	Edgar Dolores Tesillos	Future changes in North Atlantic winter cyclone dynamics in CESM-LENS	**Berlin**	1
12:00-12:15	Julia Mindlin	Using storylines to reconcile Southern Hemisphere storm-track changes in CMIP5 and CMIP6 model projections	**Buenos Aires**	1
12:15-12:30	Orly Lachmy	The relation between the poleward shifts of midlatitude diabatic heating, eddy heat flux and the eddy-driven jet in CMIP6 models	**Open U., Israel**	1
12:30-14:00		**Lunch**		
14:00-17:00		**Recreation time** (hiking, biking, kayaking, tennis, visit of oyster farm, visit of birds reserve, etc.)		
		Session 5 / part 2 (chair: Lina Boljka)		
17:00-17:15	Kai Kornhuber	Mid-latitude dynamical perspectives on recent record-breaking extreme weather events and representation and future changes of associated dynamical drivers in CMIP6 models.	**Berlin & Columbia**	1
17:15-17:30	Hanin Binder	Warm conveyor belts and their role for cyclone intensification in present-day and future climate simulations	**ETH**	1
17:30-17:45	Or Hadas	The Role of Baroclinic Activity in Controlling Earth's Albedo in the Present and Future Climates	**Weizmann**	1
17:45-18:00	Sebastian Schemm	Storm track response to uniform global warming downstream of an idealized sea surface temperature front	**ETH**	1
18:00-18:15	Alice Portal	The Northern-Hemisphere jets and storm tracks in a reduced land-sea-thermal-contrast climate	**LMD**	1
18:15-18:30	Pedram Hassanzadeh	Lack of change in average duration of blocking events in a warming climate	**Rice U.**	1

19:00		**Fancy dinner**		
20:00		**Musical evening at the bar**		
Fri 3 June				
		Session 5 / part 3 (chair: Alice Portal)		
9:00-9:30	Rei Chemke	The central role of ocean processes in the response of the storm tracks to anthropogenic emissions over the 21st century	**Weizmann**	1
9:30-10:00	Paulo Ceppi	Roles of the stratosphere and horizontal grid resolution for the austral jet stream response to CO2 forcing	**Imperial College**	1
		number of oral presentations		59
10:00-10:30		**Coffee Break**		
10:30-11:30		**Final discussion**		
11:45		picnic bag for those leaving right away		
11:45		1st coach to take the 1:47 train at La Rochelle		
12:00		**Lunch**		
13:45		2nd coach to take the 3:41 pm train at La Rochelle		
		List of posters		
	Christopher Polster	Evidence for a "Traffic Jam" Onset of Blocked Flow from Ensemble Sensitivity Analysis	**Mainz**	1
	Sophie Cuckow	Moisture transport relating to extratropical cyclone precipitation in a climatology of 1000 storms	**Reading**	1
	Jacob Perez	Feature Based analysis of the North Atlantic Eddy Driven Jet Stream	**Leeds**	1
	Vinita Deshmukh	How does a dry model with a climatology close to the observations represent atmospheric blocking ?	**LMD**	1
	Mingiu Park	The North Atlantic Storm Track Shifts Induced by Regional Stationary-Transient Wave Interference and Upstream Diabatic Heating	**Princeton U.**	1
	Sydney Sroka (speaker: A. Czaja)	Does the oceanic eddy field contribute to surface heating of the North Pacific storm track?	**Imperial College**	1
	Morio Nakayama	Impacts of a Midlatitude Oceanic Frontal Zone on the Southern Baroclinic Annular Mode	**U. Tokyo**	1
	Marion Saint-Lu	Influence of the tropical atmospheric variability on the North Atlantic atmospheric circulation	**LMD**	1

	Joaquin Blanco	Storm tracks and cloud albedo: why is the Southern Ocean cloudier?	**MISU, Stockholm**	1
	Chaim Garfinkel	The building blocks of Northern Hemisphere wintertime storm tracks	**Hebrew U.**	1
	Jamie Mathews	The Diabatic Influence of Western Boundary Currents on Atmospheric Blocking	**Imperial college**	1
	Eswyn Chen	Extratropical cyclone characteristics and the signal-to-noise paradox	**Leeds**	1
	Julia Lockwood	Simulation of the winter North Atlantic storm track in PRIMAVERA high-resolution global climate models	**Met Office**	1
	Harikrishnan Ramesh	The effect of mesoscale ocean variability on the extratropical atmospheric circulation in coupled climate models	**Bergen**	1
	Jaeyoung Hwang	Non-monotonic storm track change to carbon dioxide removal	**Seoul U.**	1
	Fumi Hayashi	A novel masking technique to investigate atmosphere-ocean interaction over Western Boundary Currents	**Imperial College**	1
	Mireia Ginesta	A framework for attributing explosive cyclones to climate change: the case study of storm Alex 2020	**LSCE, Paris**	1
	Itamar Karbi	Larger and less persistent summer temperature anomalies in the Southern Hemisphere mid-latitudes by the end of the 21st century	**Weizmann**	1
	Chloe Boehm	The Contribution of Clouds to Northern Hemisphere Surface Temperature Variability on Monthly to Decadal Timescales	**Colorado S U.**	1
	Philipp Breul	Relationship between Southern Hemispheric jet variability and forced response: the role of the stratosphere	**Imperial College**	1
	Gwendal Rivière	Links between mid-latitude Rossby wave phase speed and polar stratospheric and tropospheric temperatures in the Northern Hemisphere	**LMD**	1
	David Thompson	Changes in extratropical persistence under climate change	**Colorado S U.**	1
	Lukas Papritz	Sources and Transport Pathways of Precipitating Waters in Cold-Season Deep North Atlantic Cyclones	**ETH**	1
	Matthew Priestley	Future changes in extratropical cyclones in the CMIP6 ensemble from a composite cyclone perspective	**Exeter**	1
	Dominik Büeler	Validation of extratropical cyclone characteristics in sub-seasonal ECMWF forecasts	**ETH**	1
	Marta Wenta	Air-sea interactions and diabatic processes in the Gulf Stream region and their role in the life-cycle of a blocking anticyclone: a case study of European Blocking in Feb 2019.	**KIT**	1
	Nimrod Gavriel	Jupiter's polar cyclones as prototypes for vortex dynamics	**Weizmann**	1
		Total number of posters		27