

Stormtracks 2025 Workshop

15-20 June 2025, Rosendal, Norway

Program

15 June, Sunday	
	Individual arrival at hotel
18:00	Dinner

16 June, Monday		
09:00-10:30	Cyclone dynamics and lifecycles I	
09:00-09:30	Suzanne Gray *	A global climatology of sting-jet extratropical cyclones
09:30-09:45	Helen Dacre	Midlatitude Cyclone Intensity Biases in Machine Learning Weather Prediction Models
09:45-10:00	Johannes Lutzmann	Tracking frontal lifecycles and identifying their role in cyclone clustering
10:00-10:15	Lynn McMurdie	The Effects of Environmental Conditions in Storm Tracks on Precipitation Processes in Winter Storms: Results from Recent Field Campaigns
10:15-10:30	Myriam Besson	Cyclone phase space diagrams dedicated to extratropical cyclones studies
10:30-11:00	Coffee break	
11:00-12:30	Cyclone dynamics and lifecycles II	
11:00-11:30	Emmanouil Flaounas *	An Overview of Recent Advancements in the Dynamics of Mediterranean Cyclones and the Specific Case of Medicanes
11:30-11:45	Thomas Spengler	On the relation between weather and eddy momentum fluxes
11:45-12:00	Thomas Batelaan-Bruggeman	The Role of Latent Heating in North-Atlantic Extratropical Cyclone Clustering
12:00-12:15	Victoria Sinclair	Future changes to extra-tropical cyclones: combining CMIP6 projections and baroclinic wave simulations
12:15-12:30	Yohai Kaspi	How, and to what extent, does the mean flow control the growth extratropical storms?
12:30-13:30	Lunch	
13:30-15:00	Diabatic processes and moist dynamics I	
13:30-13:45	Henrik Auestad	How the latent heating feedback shapes the midlatitude circulation
13:45-14:00	Abel Shibu	Latent heating in a warmer world - a storm centric approach
14:00-14:15	Paul O’Gorman	The transition to Diabatic Rossby Vortex world in a range of models and climates
14:15-14:30	Svenja Christ	Characteristics of diabatically driven cyclones with high impact on Europe
14:30-14:45	Andrea Marcheggiani	Weather features maintain the North Atlantic storm track
14:45-15:00	Felix Vivant	Convection within atmospheric storms organized by oceanic submesoscale fronts
15:00-15:30	Coffee break	

15:30-16:30	Diabatic processes and moist dynamics II	
15:30-15:45	Mona Bukenberger	Diabatic influence on jet streak evolution — Updating the four-quadrant model with Lagrangian PV-gradient analysis
15:45-16:00	Qidi Yu	Influence of Diabatic Heating on Cyclone Forecast Bias
16:00-16:15	Rikke Stoffels	Moisture sources and transport pathways of summertime intense extratropical cyclones in the North-Atlantic
16:15-16:30	Vishnupriya Selvakumar	Dynamics and Predictability of Warm Conveyor Belt Outflow Interactions with the Upper-Level Waveguide
16:30-18:00	Icebreaker	
18:00-	Dinner	

17 June, Tuesday		
09:00-10:30	Stormtrack dynamics and predictability: energetics	
09:00-09:30	Nili Harnik *	Modifications of the jet / storm track regime concept in the presence of moisture, zonal asymmetries, and time varying external forcings
09:30-09:45	Dor Sandler	A Local Wave Activity Interpretation of Interacting Storm Tracks
09:45-10:00	Gang Chen	Mechanisms for the Response of Midlatitude Surface Temperature Variance to Climate Warming
10:00-10:15	Marc Federer	The local contribution of storm tracks to hemispheric collapses of available potential energy
10:15-10:30	Nora Zilibotti	A fresh look at the jet-storm track relationship
10:30-11:00	Coffee break	
11:00-12:30	Stormtrack dynamics and predictability: energetics	
11:00-11:30	Hisashi Nahamura *	Towards deeper understanding of modulated storm-track activity
11:30-11:45	Or Hadas	Pacific and Atlantic winter storms differ due to jet stream orientation
11:45-12:00	Satoru Okajima	Anticyclonic suppression of storm track activity in the midwinter North Pacific
12:00-12:15	Giorgio Sarro	What Controls the Seasonality of Intense Cyclones?
12:15-12:30	Michael Battalio	The Transient Baroclinic Annular Mode Captures The Baroclinic Wave Lifecycle
12:30-13:30	Lunch	
13:30-15:00	Ocean-atmosphere interactions	
13:30-13:45	David Battisti	Revisiting the large-scale atmospheric response to midlatitude SST anomalies in the North Atlantic: the impact of resolving mesoscale motions
13:45-14:00	Joas Müller	Altered NAO - North Atlantic SST Feedback in Mesoscale Resolving Simulations
14:00-14:15	Harikrishnan Ramesh	Simulating the effects of a high-resolution ocean on the midlatitude storm tracks in a standard-resolution climate model
14:15-14:30	Fumiaki Ogawa	Influence of mid-latitude sea surface temperature fronts on the atmospheric water cycle and storm track activity
14:30-14:45	Ying-Ju Chen	Exploring the Influence of the Gulf Stream on the North Atlantic Storm Track
14:45-15:00	Morio Nakayama	Impacts of a Midlatitude Oceanic Frontal Zone on the Baroclinic Annular Mode Signature: Its inter-basin differences in the Southern Hemisphere
15:00-15:30	Coffee break	

15:30-16:00	Ocean-atmosphere interactions	
15:30-15:45	Franziska Schnyder	Linking upstream cold, continental air to the intensity of marine cold air outbreaks along the western boundary currents of the North Pacific and North Atlantic: A Lagrangian Analysis
15:45-16:00	David Thompson	Understanding two-way interactions between the Southern Hemisphere stormtracks and Antarctic sea-ice
16:00-17:30	Poster session 1	
17:30-18:00	Social time	
18:00	Dinner	

18 June, Wednesday		
09:00-10:30	Rossby waves	
09:00-09:30	Jianhua Lu *	The Changes and Constancies in Planetary- and Synoptic-scale Rossby Wave Propagation: Metrics, Trends, and Mechanisms
09:30-09:45	Volkmar Wirth	Diagnosing and analysing Rossby wave resonance along a circumglobal jetstream
09:45-10:00	John Methven	Relating the properties of quasi-stationary Rossby waves to jet latitude and strength
10:00-10:15	Michael Riemer	Dynamics of Rossby wave packets and blocked weather regimes in the North Atlantic-European region
10:15-10:30	Zhaoyu Liu	Future response of extratropical Rossby wave extreme
10:30-11:00	Coffee break	
11:00-12:30	Jet streams, blocking and weather regimes	
11:00-11:30	Talia Tamarin-Brodsky *	On storm tracks, weather regimes, and a wave breaking recipe
11:30-11:45	Xingjian Yan	Mechanisms Controlling Wave Breaking Orientations during Blocking Events
11:45-12:00	Yanju Hu	Contributions of Synoptic Eddies to Atmospheric Blocking
12:00-12:15	Akira Yamazaki	Simulated climatologies of Northern Hemisphere blocking and storm tracks in an AGCM
12:15-12:30	Edgar Dolores-Tesillos	Storm-Resolving Global Circulation Models Mitigate Euro-Atlantic Blocking Biases
12:30-16:00	Extended lunch break with social time	
16:00-16:30	Coffee break	
16:30-18:00	Jet streams, blocking and weather regimes	
16:30-16:45	Andrea Vito Vacca	Consistent decrease in winter North Atlantic eddy-driven jet variability under strong greenhouse gas forcing
16:45-17:00	Clemens Spensberger	Tracking jet lifecycles
17:00-17:15	Julia Lockwood	The effect of increasing model resolution on the Northern Hemisphere winter mid-latitude storm track: An equatorward shift due to contraction of the Hadley cell
17:15-17:30	Orli Lachmy	Driving of the subtropical jet by tropical convection
17:30-17:45	Hagar Bartana	Impact of Parameterized Convection on the Storm Track and Jet Response to Global Warming: isolating tropical vs. midlatitude vs. polar convective heating
17:45-18:00	Eswyn Chen	The effect of atmospheric resolution on North Atlantic extratropical storm track and cyclone characteristics in HighResMIP HadGEM3
18:00	Dinner	

19 June, Thursday		
09:00-10:30	Stormtrack dynamics and predictability: sub-seasonal timescale	
09:00-09:30	Thomas Birner *	Stratospheric impact on sub-seasonal forecast uncertainty via modulations of the storm track
09:30-09:45	Amanda Maycock	Strong polar vortex favoured intense Northern European storminess in February 2022
09:45-10:00	Hilla Afargan Gerstman	Sub-seasonal predictability of storm tracks: insights from jet variability in the North Atlantic and North Pacific
10:00-10:15	Philipp Rupp	Do we need 100+ member ensembles to estimate subseasonal variability?
10:15-10:30	Coleman Gliddon	Atmospheric Predictability in an Idealized GCM: Insights from a Lagrangian Perspective
10:30-11:00	Coffee break	
11:00-12:30	Stormtrack dynamics and predictability: sub-seasonal timescale & Extremes	
11:00-11:15	Paul Loikith	Towards Bridging the Weather/Climate Gap in Midlatitude Dynamics Using the Pacific North America Sector as an Example
11:15-11:30	Olivia Martius	Sub-seasonal weather persistence – a methodological review and application examples
11:30-12:00	Kai Kornhuber *	Regional heatwave acceleration from changes in the large-scale circulation and non-linear land-atmosphere feedbacks
12:00-12:15	Shira Raveh-Rubin	Why do descending airstreams often induce cold temperature anomalies and extremes?
12:15-12:30	Jennifer Catto	Compound precipitation and wind extremes associated with extratropical storms in present and future climate
12:30-13:30	Lunch	
13:30-15:00	Extremes	
13:30-13:45	Joshua Dorrington	Using synoptic precursors of European rainfall to understand (and improve) future projections
13:45-14:00	Kjersti Konstali	Atmospheric fronts drive future changes in extreme precipitation in the extratropics
14:00-14:15	Onno Doensen	Extreme Mediterranean cyclones in a regional climate model simulation from 1820 to 2100 CE under RCP8.5 conditions
14:15-14:30	Stella Bourdin	Under which conditions can cyclones of tropical origin reach Europe?
14:30-15:00	Tiffany Shaw *	Moving beyond the mean to understand circulation extremes under climate change
15:00-15:30	Coffee break	
15:30-16:30	Stormtrack dynamics and predictability: climate change	
15:30-15:45	Sebastian Schemm	On the mean state bias in climate models and recent trends of the North Atlantic jet and storm track
15:45-16:00	Juho Koskentausta	The effect of model biases on the simulated future changes of the North Atlantic jet stream
16:00-16:15	Lise Seland Graf	The influence of Arctic regional refinement on the Northern Hemisphere extratropical storm tracks in three global models
16:15-16:30	Angel Peinado Bravo	Storm Tracks in ICON: Unravelling Climate Change Responses through Aquaplanet Horizontal Grid Spacing Sensitivity Experiments
16:30-18:00	Poster session 2	
18:00	Dinner	

20 June, Friday		
09:00-10:30	Stormtrack dynamics and predictability: climate change	
09:00-09:30	Gwendal Riviere *	The future evolution of storm-tracks and jet streams: what can we still learn from idealized warming numerical experiments?
09:30-09:45	Julia Mindlin	Explaining and predicting trends in the Southern Hemisphere Eddy Driven Jet
09:45-10:00	Joonsuk Kang	Revisiting the reanalysis-model discrepancy in Southern Hemisphere winter storm track trends
10:00-10:15	Or Hess	The Intensification of the North Atlantic Summer Storm Track Over the Last Millennium
10:15-10:30	Itamar Kabi	Emergence of the Boreal Winter Storm Tracks
10:30-11:30	Coffee break and check out	
11:30-12:30	Discussion and Farewell	
12:30-13:30	Lunch	
	Individual departure (Ferry leaves 14:25)	

Poster session 1	
Aleksa Stankovic	Winter cyclones drive stronger surface wind extremes in the North Atlantic than in the Southern Ocean
Amelie Mayer	A Lagrangian analysis of near-surface warm and cold temperature extremes
Andrea Rosendahl	Nordic precipitation trends and North Atlantic circulation patterns in CMIP6 models
Andressa Andrade Cardoso	Diabatic influences on hazardous Mediterranean cyclones
Camille Li	The role of cyclones in the atmospheric general circulation viewed on moist isentropes
Chaim Garfinkel	Building blocks of storm tracks: revisiting asymmetries between the NH and SH in storm track strength
Chiabrandio Nicolas	Role of diabatic and frictional processes in low-level jets of Arctic Cyclones
Enora Le Gall	A remote controle of the tropics on extra-tropical precipitation within Atmospheric rivers
Gilad Shreibshstein	An AI Model for Predicting Midlatitude Cyclone Intensification Using Cyclone-Centered fields
Hugo Banderier	Aspects of North Atlantic jet stream persistence and impacts on the surface weather in Europe
Jacob Maddison	Extratropical cyclone classification using piecewise potential vorticity inversion
Jacopo Riboldi	Boreal cold air reservoirs: the modulators of land-sea contrast at the entrance of northern hemispheric storm tracks
Julian Krüger	On the Role of Warm Conveyor Belt Activity for the European Summer Climate in Eddy-resolving ICON Simulations
Julian Quinting	The North Atlantic Waveguide, Dry Intrusion, and Downstream Impact Campaign (NAWDIC)
Leo Saffin	Tropical Cyclones in the Extratropics MarceloSouzaAssessing the relative contributions of forcing mechanisms to extratropical cyclone intensification in current and future climate
Michael Thomas	Exploring and characterizing the life cycles of tracked anticyclones on the northern hemisphere
Rhiannon Biddiscombe	Dry entropy as a simplified measure of baroclinicity
Robin Guillaume-Castel	Predicting extreme rainfall: dynamical Insights from Explainable AI

Poster session 2	
Stephan Pfahl	Enhanced Blocking Frequencies in Very-High Resolution Idealized Climate Model Simulations
Tali Sarit Gens	Predictability of Mediterranean Cyclones: Feature-Based Analysis of Upper-Level Potential Vorticity and Precipitation Using the March 2020 Cyclone as a Case Study
Tim Woollings	Blocking in a perturbed physics ensemble of HadGEM3
Tsruya Yaari-Sadeh	Dry intrusions from the wake of extratropical cyclones govern extreme evaporation and downstream impact in the tropics
Valeria Mascolo	Rare event algorithm study of extreme double jet summers and their connection to heatwaves over Eurasia
Victorien De Meyer	Assessment of Extreme Extratropical Cyclones in Northeastern North America: Present-Day Characteristics and Future Evolution
Vinita Deshmukh	Representation of atmospheric blocking in a dry model with wave energy close to observation
Yangfan Zhou	Enhancing the Representation of Extreme Precipitation in Norway Using Generative Deep Learning Models
Yvonne Anderson	Can climate models represent ocean-atmosphere feedbacks on the winter North Atlantic Oscillation?
Zhenghe Xuan	Wavenumber dependent response of Rossby waves to climate change explained by changes in zonal background flow
Zhixiang Li	A New Method for Computing Zonal Group Velocity of Synoptic-scale Rossby waves
Itamar Karbi	Elucidating the Seasonal Asymmetry in Future Southern Hemisphere Storm Track Changes
Chaim Garfinkel	Understanding historical changes in jets and the storm tracks: insights from the Large Ensemble Single Forcing Model Intercomparison Project
Joonsuk Kang	Anthropogenic Aerosols Have Significantly Weakened the Regional Summertime Circulation in the Northern Hemisphere During the Satellite Era
Kjersti Konstali	Mechanisms for jet-strengthening during cyclone clustering events
Henrik Auestad	Spatio-temporal averaging obscures the reinforcement of baroclinicity by latent heating
Giorgio Sarro	The effects of transitioning tropical cyclones on the midlatitude waveguide in the present and future climate
Thomas J. Batelaan	The Influence of Large-Scale Spatial Warming on Jet Stream Extreme Waviness on an Aquaplanet

Participants

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