

EXOCLIMES PROGRAM - July 7-11, 2025 [200 ppl]

	Location for all sessions: Pavillon Jean-Coutu S-151 (next to the Agora)											
Start	Sunday	7/6/2025	Monday	7/7/2025	Tuesday	7/8/2025	Wednesday	7/9/2025	Thursday	7/10/2025	Friday	7/11/2025
8:00	Arrival		Breakfast Pavillon Jean-Coutu Agora		Breakfast Pavillon Jean-Coutu Agora		Breakfast Pavillon Jean-Coutu Agora		Breakfast Pavillon Jean-Coutu Agora		Breakfast Pavillon Jean-Coutu Agora	
			Opening Words									
9:00												
Chair			Session 1 - Chair: Clémence Fontani	Session 4 - Chair: Shami Tsai	Session 7 - Chair: Caroline Morley		Session 9 - Chair: Yamila Miguel		Session 12 - Chair: Lisa Dang			
9:30												
			Nicolas Cowan: Observing Atmospheric Dynamics on Exoplanets <i>Review Talk</i>	Maria Zamyatina: Atmospheric Chemistry of Solar and Extrasolar Gas Giants <i>Review Talk</i>		Elsbeth Lee: Modelling Clouds in 3D <i>Review Talk</i>		Anjali Piette: Deciphering the Compositions of Super-Earths and Sub- Neptunes with JWST <i>Review Talk</i>		David Brain: Atmospheric Escape on Solar System Planets and Moons <i>Review Talk</i>		
9:45												
10:00												
			Natalia Lucia Oliveris Gomez: Mapping the atmosphere of the BD binary system WISE 1049AB	Robin Baeyens: One, two, three! A multi- dimensional look at the chemistry of WASP-43 b		Nishil Mehta: Combining JWST data and General Circulation Models for a 3D view of the warm Jupiter WASP-80b		Matthew Nixon: Observable signatures of magma-atmosphere interactions in sub-Neptunes		Aaron Bello-Arufe: Evidence for an atmosphere on the sub-Earth L98-59b		
10:15												
			Amelie Gressier: JWST near-infrared phase curve analysis of the ultra-short- period Lava planet K2-141b	Brianna Lacy: Mapping Nonequilibrium Chemistry Trends in Cold Rogue Worlds		Diana Powell: Spatially varying weather forecasts on hot Jupiters		Cara Pesciotta: Hazes and Habitability: The Interaction Between Atmospheric Haze and Liquid Surface Water		Collin Cherubim: An Oxidation Gradient Spanning the Small Planet Radius Valley		
10:30												
			Fei Wang: Towards Time-Resolved Atmospheric Retrievals: Eigen-Spectra Inversion Techniques for Variable Brown Dwarfs and Exoplanet	Nathalie Grasser: Chemical fingerprints of young L dwarf twins as proxies of gas giant atmospheres		Sophia Vaughan: Understanding the survival of desert wanderer: Characterizing LTT-9779 b in reflected light		Harrison Nicholls: Exploring the diversity of lava planet atmospheres through coupled interior-atmosphere modelling.		Mark Fortune: Constraining the atmosphere of the rocky exoplanet LHS- 1140c and lessons for the Rocky Worlds DDT from analysing JWST/MIRI data at		
10:45												
11:00			Coffee break Pavillon Jean-Coutu Agora	Coffee break Pavillon Jean-Coutu Agora		Coffee break Pavillon Jean-Coutu Agora		Coffee break Pavillon Jean-Coutu Agora		Coffee break Pavillon Jean-Coutu Agora		
11:15												
Chair			Session 2 - Chair: Denis Sergeev	Session 5 - Chair: Julia Seidel	Session 8 - Chair: Sarah Moran		Session 10 - Chair: Tim Lichtenberg		Session 13 - Chair: Romain Allart			
11:30			Keren Duer-Milner: Atmospheric Dynamics of Solar System Giants <i>Review Talk</i>	Emily Deibert: Probing Atmospheric Chemistry from High Resolution Spectroscopy <i>Review Talk</i>		Xinting Yu: Bridging Laboratory Aerosols Studies and Atmospheric Modeling: Lessons from Titan <i>Review Talk</i>		Oliver Shorttle: The Search for Life at Planetary Interfaces <i>Review Talk</i>		Leonardo Dos Santos: A Tale of Assymetric Transits, Missing Planets, and Finally Including Magnetic Fields <i>Review Talk</i>		
11:45												
12:00												
			Edouard Barrier: GCM simulations of temperature sub-Neptunes using a new convection scheme	Krishna Kanumalla: A song of ice and fire...and rocks!: Probing the rock-to-ice content of ultrahot Jupiters using IGRINS		Ryan Challenger: JWST-TST DREAMS: The Complete JWST Emission and Transmission Spectra of a Hot Jupiter		Esther van Dijk: Retrieving interior properties of hot Jupiters with Love numbers and atmospheric measurements		Eva-Maria Ahrer: Escaping helium and muted features suggest a high-metallicity atmosphere on sub-Neptune GJ3090b from JWST transit spectroscopy		
12:15												
			Robert Frazier: WASP-121b Under the Gaze of JWST: How 3D Models Compare to its Spectroscopic Phase Curve	Bibiana Prinath: Hidden in plain sight: Using ESPRESSO's superpower to detect depleted titanium in WASP-121 b		Vignesh Nagpal: Clouds and Hazes on Sub-Neptunes: Insights from 2D Microphysical Modeling		Charles-Edouard Boukare: Exploring the Internal Dynamics of Lava Exoplanets		Jaume Orell-Miquel: Insights from the largest observational campaign on escaping atmospheres		
12:30												
			Namrah Habib: Do Episodic Storms Always Occur on Planets with Hydrogen- Rich Atmospheres? A Parameter-Space Study of Vertical Mixing in Sub-Neptune	Linn Boldt-Christmas: High-resolution spectroscopy studies of a cloudy and warm Neptune		Giulia Rocchetti: Exploring Earth's Reflected Light Through 3D Radiative Transfer Simulations		Claire Guimond: A geochemical view on the ubiquity of atmospheric CO2 on rocky exoplanets		Shreyas Vissapragada: Towards Precise Constraints on Atmospheric Evolution for 50 Sub-Neptunes		
12:45												
						Yifan Zhou: JWST as an Exoplanet Weather Satellite: NIRCam Coronagraphic Monitoring of Beta Pic b				Closing Remarks		
13:00												
						Paul Molliere: Characterizing Silicate Clouds in Rogue Planets with JWST						
13:15												
13:30			Lunch & Poster Session Pavillon Jean-Coutu Agora	Lunch & Poster Session Pavillon Jean-Coutu Agora				Lunch & Poster Session Pavillon Jean-Coutu Agora				
13:45												
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15:45			Discussion (Free Time)									
Chair												
										Session 11 - Chair: Vignesh Krishnam		
16:00										Jiachen Liu: Transport-induced Chemistry and Vertical Mixing of Temperate sub-Neptunes: K2-18b as an Example		
										Lili Alderson: Uncovering the Carbon Chemistry of the Exo-Neptune HAT-P- 11b		
16:15												
Chair						Session 6 - Chair: Stevanus Nugroho						
						James Kirk: BOWIE-ALIGN: Testing the dependence of atmospheric composition on migration history with the misaligned hot Jupiter WASP-15b				Pierre-Alexis Roy: Revealing the first thermal emission spectrum of a hot and dense sub-Neptune		
16:30												
						Nicole Wallack: Early Results from the JWST Giant Exoplanets Around M-dwarf Stars (GEMS) Program				Chloe Fisher: Comparing the Chemistry of Sub-Neptunes in Multi-Planet Systems with JWST		
16:45												
Chair			Session 3 - Chair: Joost Wardenier							Panel Mod: Frédérique Baron		
17:00			Cathal Maguire: Multi-dimensional insights from high- and low-resolution spectroscopy		Yoav Rotman: It's a bird! It's a planet! It' s... an unknown gas?: Overcoming Modeling Deficiencies in Retrievals of JWST Exoplanet Spectra							

17:15	Welcoming Reception Pavillon Jean-Coutu Agora	Vincent Yariv: Towards Doppler Eclipse Mapping of Hot Jupiters	Francisco Ardevol Martinez: Overwhelmed with JWST data? Machine learning to the rescue!		Spin-off Evenings: Beyond Academia - Lessons Learned from the Other Side Panel Cassandra Bolduc & Jeffrey Silverman	Departure
17:30		Lennart van Sluijs: 1D Retrievals versus a 3D GCM: A Biased view of an Ultra Hot Jupiter at high resolution	Poster Session Pavillon Jean-Coutu Agora			
17:45		Vivien Parmentier: A population view of hot Jupiter atmospheres				
Chair		Panel Mod: René Doyon				
18:00	end	Spin-off Evenings: How SciComm can help you with your research Workshop by Marie-Ève Naud & Frédérique Baron	Poster Session Pavillon Jean-Coutu Agora		Buffer to commune to the Montreal Old Port	Departure
18:15						
18:30						
18:45						
19:00		Buffer	Buffer	Buffer		
19:15		Dinner Cafétéria Jean-Brillant	Dinner Cafétéria Jean-Brillant	Dinner Cafétéria Jean-Brillant	Conference Dinner Montreal Old Port Passerelle-Perspective	
19:30						
19:45						
20:00						
20:15		end				
20:30						
20:45						
21:00						
21:15	end					Departure
21:30						
21:45						
22:00						
22:15	end				Fireworks visible from the Banquet Venue and Old Port	Departure
22:30						
22:45						
23:00						