



THE NATO CLIMATE CHANGE
AND SECURITY CENTRE OF EXCELLENCE

THE CONFERENCE OF
DEFENCE ASSOCIATIONS INSTITUTE



MONTRÉAL CLIMATE SECURITY SUMMIT

SOMMET SUR LA SÉCURITÉ CLIMATIQUE DE **MONTRÉAL**

Icebreaker Event - October 7th

18:30 - 20:30

Icebreaker Event - Cocktail Reception

Day 1 - October 8th

08:00 - 09:00

Registration and Welcome Coffee

09:00 - 09:10

Opening Remarks

Dr. Gaëlle Rivard Piché

Executive Director, CDA Institute

Mr. Mathieu Bussièrès

Director, CCASCOE

09:15 - 10:25

The State of Climate Security Today
Plenary Panel

Provides a knowledge baseline for the Summit, highlighting the latest scientific research and geopolitical developments in the climate security realm. It offers a concise overview of current challenges and trends, setting the stage for informed discussions throughout the event.

Ms. Erin Sikorsky

Director, Center for Climate and Security and International Military
Council on Climate and Security

Dr. Kimberley Miner

Research Assistant Professor, University of Maine

Dr. Cromwell Lukorito

Vice-Chair of Intergovernmental Panel on Climate Change (IPCC)
Working Group II on Adaptation, University of Nairobi

Moderator: Ms. Laura Birkman

Director of the Climate, Water, Food security Program, The Hague
Centre for Strategic Studies (HCSS)



MONTREAL

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SUR LA SÉCURITÉ CLIMATIQUE DE MONTREAL

10:25 - 10:45

**Setting the stage: The Strategic Imperative for
Military Adaptation** Keynote Address

Lieutenant-General Steve Boivin, CMM, MSC, MSM, CD
Commander Canadian Joint Operations Command

10:45 - 11:05

Coffee Break

11:10 - 12:40

Regional Challenges

Session 1

Roundtable 1.1 - The MENA Region

Provides an overview of the main intersecting climate security challenges and local resilience initiatives in the Middle East and North Africa.

Dr. Anselm Vogler

Non-Resident Fellow at the Institute for Peace Research and Security Policy at the University of Hamburg (IFSH)

Other Speakers TBC

Moderator: Dr. Grazia Pacillo

Senior Scientist and Co-Lead, CGIAR Climate Security team

Workshop 1.2 - Adapting to Climate Change in the Arctic through Community Resilience: A Canadian Perspective

Lead: Dr. Giovanni Fusina

Research Scientist, Defence Research and Development Canada (DRDC)

Roundtable 1.3 - Eastern Europe

Explores the intersecting climate security challenges shaping defence and stability across Eastern Europe, with a focus on water scarcity, energy resilience, and the shifting operational environment for military actors.

Dr. Svitlana Krakovska

Head of Ukrainian Delegation to the IPCC, and Head of the Applied Climatology Laboratory of the Ukrainian Hydrometeorological Institute (UHMI)

Dr. Elton Qendro

National Programme Officer, OSCE Presence in Albania

Ms. Kristina Rimkunaite

Subject Matter Expert, NATO Energy Security Centre of Excellence

Moderator: Mr. Lennard de Klerk

Lead Author, Initiative on GHG accounting of war



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Roundtable 1.4 - Developing Climate Wargaming as a Learning and Decision-Making Tool

Leads:

Mr. Tom Odell

Chief Analyst, UK Defence Science and Technology Laboratory (Dstl)

Dr. Katie Woodward

Head of Research, Analysis and Lessons Learned, Nato Climate Change and Security Centre of Excellence (CCASCOE)

12:40 - 14:00

Lunch

14:00 - 14:20

Emerging Technology: Risk Multiplier or Opportunity?
Keynote Address

NATO senior official (TBC)

14:25 - 15:55

Science and Operational Risks
Session 2

Workshop 2.1 - Geoengineering and Solar Radiation Modification

Dr. Joshua Elliot

Chief Scientist, Renaissance Philanthropy

Dr. Daniele Visoni

Assistant Professor, Earth and Atmospheric Sciences, Cornell University

Lead: Ms. Erin Sikorsky

Director, Center for Climate and Security and International Military Council on Climate and Security



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Roundtable 2.2 - Military Readiness and Climate Resilience in the Space Domain

Explores the intersection of climate change, technology, and operational risk in the space domain. Examines how space capabilities enhance climate understanding and military readiness, and how climate-driven environmental changes impact space infrastructure, satellite operations, and their critical interdependence with cyber systems.

Dr. Christine Nam

Senior Climate Scientist, Climate Service Center Germany (GERICS)

Colonel Sylvain Debarre

Director, NATO Space Centre of Excellence

Dr. Kimberley Miner

Research Assistant Professor, University of Maine

Ing. Jan Lukačević

Project Expert for Aerospace Sector, Prague Innovation Institute

Roundtable 2.3 - Military Readiness in the Cyber Domain

Explores the cyber domain as both a domain of competition and a strategic tool, posing risks through disinformation and infrastructure vulnerabilities while supporting climate adaptation and resilience. Highlights opportunities for cross-sector and transboundary collaboration to address cyber and climate risks to military readiness through systemic approaches, from digital networks to socio-economic and political institutions.

Speakers TBC



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Roundtable 2.4 - Resilience of Military Infrastructure and Equipment in the Maritime Domain

Explores the intersection of climate science, emerging technologies, and operational resilience in the maritime domain, with a particular focus on the impacts on naval infrastructure and submarine operations. Focuses on how warming oceans affect anti-submarine warfare tactics, the survivability and performance of underwater assets, and the long-term resilience of coastal bases.

Dr. Andrea Gilli

Senior Researcher in Military Affairs at the NATO Defense College in Rome and Affiliate of the Center for International Security and Cooperation of Stanford University in Palo Alto, CA

Dr. Aniello Russo

Senior scientist, NATO Centre for Maritime Research and Experimentation (CMRE)

Capt. Andrea H. Cameron, Ph.D., Ed.D., SPHR

Permanent Military Professor, National Security Affairs and Dept. Director, Conflict & Human Security Group, Naval War College

Moderator: Dr. Alex Kolker

Fellow, CCASCOE; Associate Professor, Louisiana Universities Marine Consortium; Head, Coastal Climates

15:55 - 16:15

Coffee Break

16:15 - 17:00

Concluding Plenary for Day 1

17:00 - 17:20

Closing Keynote

Dr. Svitlana Krakovska

Head of Ukrainian Delegation to the IPCC, and Head of the Applied Climatology Laboratory of the Ukrainian Hydrometeorological Institute (UHMI)

17:20 - 19:00

Networking Cocktail



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Day 2 - October 9th

08:00 - 08:45

Registration and Welcome Coffee

08:45 - 08:50

Welcoming Remarks

Ms. Jennifer Jordan-Saifi, M.V.O., MBA

Chief Executive Officer, Sustainable Markets Initiative

08:50 - 09:10

Opening Keynote

Canadian government representative (TBC)

09:15 - 10:25

**Strategic Foresight and Climate Risk
Assessment Across Sectors**

Plenary Panel

Explores how integrating climate security risks into foresight efforts can inform decision-making across sectors, from policymakers and practitioners to industry and defence. It examines the role of intelligence agencies, the use of data in climate risk assessment, and strategies for integrating climate security intelligence outputs into defence and policy planning.

Dr. Benjamin Pohl

Head of Climate Diplomacy and Security, Adelphi, member of the German NiKE Consortium

Ms. Marie-Sophie Mayer

Researcher, Climate Security & Environmental Governance, Munich Security Conference

Moderator: Ms. Lily Boland

Strategic Foresight Fellow, Converging Risks Lab of the Council on Strategic Risks

10:25 - 10:45

Coffee Break



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10:45 - 12:15

**Climate Security Action and Knowledge
Exchange across the Community of Practice**
Session 3

Workshop 3.1 - Translating Climate Security Language Across Research, Policy, and Military Planning

Lead: Ms. Caroline Baxter

Director, Converging Risks Lab, and Senior Advisor, Center for Climate and Security (CCS), Council on Strategic Risks

Roundtable 3.2 - Improving Early Warning Cooperation

Discusses the perspective and challenges of developing a cross-sectoral and universal system of Early Warning, including against the background of the UN Secretary-General's initiative "Early Warnings for All" (EW4ALL).

Brigadier General Luca Baione

Permanent Representative of Italy to the World Meteorological Organization; Head of Division, Military Aviation and Meteorology of the Italian Air Force Staff

Other Speakers TBC

Roundtable 3.3 - Climate Security Tools, Cross-Sectoral Data

Explores the current landscape of collaborative tools for climate security prediction and data aggregation, identifying key strengths, limitations, and opportunities for stronger cross-sectoral synergies. It addresses institutional silos and barriers to collaboration, and explores how tools can support military, policy and industry decision-makers in managing climate-related risks.

Ms. Alessandra Ussorio

Capability Development Coordinator, European Union Satellite Center–Presentation of the Climate and Environmental Security Data and Analysis (CESDA) Hub

Mr. Daniel Mittermaier

Research Associate, Center for Crisis Early Warning (CCEW), University of the Bundeswehr (German Armed Forces), Munich – Presentation of the Climate-Conflict-Vulnerability Index (CCVI)

Ms. Penny Beames

Water and Strategic Vulnerabilities Specialist, Global Water Security Center, University of Alabama – Presentation of the Pathways to Instability Framework

Mr. Tom Ellison

Deputy Director, Center for Climate and Security – Presentation of the Military Response to Climate Hazards (MiRCH) database

Moderator: Mr. Paul Rushton

Officer, NATO International Staff



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Roundtable 3.4 - Developing Climate Wargaming as a Learning and Decision-Making Tool

Leads:

Mr. Tom Odell

Chief Analyst, UK Defence Science and Technology Laboratory (Dstl)

Dr. Katie Woodward

Head of Research, Analysis and Lessons Learned, Nato Climate Change and Security Centre of Excellence (CCASCOE)

12:15 - 13:35

Lunch

13:35 - 14:45

Civil-military Cooperation on Climate Resilience

Plenary Panel

The session aims to explore barriers to effective collaboration between civil and military sectors in addressing climate challenges. The objective is to identify actionable solutions to these challenges. Topics will include disaster response coordination, dual-use infrastructure, and the role of data-sharing in managing climate risk.

Ms. Jennifer Jordan-Saifi, M.V.O., MBA

Chief Executive Officer, Sustainable Markets Initiative

Ms. Eva Cohen

Founder & President of Civil Protection Youth Canada

Brigadier General Luca Baione

Permanent Representative of Italy to the World Meteorological Organization; Head of Division, Military Aviation and Meteorology of the Italian Air Force Staff

Moderator: Dr. Tom Deligiannis

Adjunct Professor, Department of Global Studies, Wilfrid Laurier University; Member of the Project CASA Coordinating Group

14:45 - 16:15

Increasing Military Resilience in the Face of Climate Risks: A Cross-Sectoral Approach

Session 4

Roundtable 4.1 - Advancing Civil-Military Cooperation in Emergency Management Across the Alliance

Lead: Mr. Michael Joseph Hosken

Community Resilience Research Portfolio Manager, Centre for Security Science, Assistant Deputy Minister, Defence Research and Development Canada (DRDC)



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Workshop 4.2 - Mainstreaming Climate Change in Allied Defence Spending Commitments and Capability

Leads:

Mr. Paul Rushton

Officer, NATO International Staff

Colonel Giancarlo Turco

Senior Staff Officer, Policy and Capability Division, NATO International
Military Staff

Workshop 4.3 - Increased Readiness and Resilience through Low-Carbon Warfare

Leads:

Dr. Bruno Charbonneau

Full Professor, Royal Military College Saint-Jean
Senior Scientific Advisor, CCASCOE, NATO

Dr. Duncan Depledge

Senior Lecturer, Loughborough University

16:15 - 16:35

Coffee Break

16:35 - 17:20

Closing Plenary for Day 2

17:20 - 17:35

Closing Keynote

17:35 - 17:40

Closing Remarks

Dr. Gaëlle Rivard Piché

Executive Director, CDA Institute

Mr. Mathieu Bussièrès

Director, CCASCOE

***Please note that the session times are subject to change.**