



Global Heat Resilience Service

Building the foundation for heat resilient communities



BUILDING THE FOUNDATION FOR HEAT RESILIENT COMMUNITIES

Roundtable on the Global Heat Resilience Service | 31 July 2023

Host



Yana Gevorgyan Secretariat Director Group on Earth Observations

Opening Remarks



Stefan Schweinfest Director Statistics Division UNSD/DESA

Jainey Bavishi, Asst. Secretary for Oceans and Atmosphere and Deputy Administrator, NOAA

Keynote Addresses



Vicki Cerullo Acting Executive Director NYC Mayor's Office of Climate & Environmental Justice



Agenda





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	Welcome	15:00 – 15:05	5 mins
1	Introduction / Who is GEO?	15:05 – 15:10	5 mins
2	Opening Remarks	15:10 – 15:15	5 mins
3	Keynote Addresses: why should we be worried about heat & health?	15:15 – 15:35	20 mins
4	Presentations & discussion: the need for a Global Heat Resilience Service	15:35 - 16:15	40 mins
	Coffee Break	16:15 - 16:45	30 mins
5	Moderated panel discussion: Mapping existing initiatives, resources, and partnerships	16:45 – 17:45	60 mins
6	Summary and next steps	17:45 - 18:00	15 mins



Welcome Yana Gevorgyan: Director, GEO Secretariat

What is GEO?



GEO is an intergovernmental partnership for people, nature, and the planet.

GEO draws expertise

from an extensive global network that includes 114 governments, 162 private sector and civil society organizations and thousands of worldleading scientists. **GEO promotes** open, equitable access to Earth observation information to help decision makers understand and act on the global challenges of climate change, biodiversity loss and pollution, and achieve sustainable development.

The GEO Secretariat is hosted by the World Meteorological Organization (WMO).



Why heat resilience?

Simultaneous heatwaves are occurring across the northern hemisphere

prolonged daytime temperatures well above 40°C (104°F). Extreme heat is a major hazard, and we must step up (WMO July, 2023)

Persistent heatwaves in the Northern Hemipshere





Born into a climate crisis





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The need for a Global Heat Resilience Service Yana Gevorgyan: Director, GEO Secretariat

Twin challenge: climate change and urbanisation



IPCC Climate Change 2022: Impacts, Adaptation, and Vulnerability

The Working Group contribution to the IPCC Sixth Assessment Report

Twin challenge: climate change & urbanisation

Global urban heat exposure trends (1986 – 2016) 10

Much of the burden of urban heat exposure is concentrated in the tropics, specifically Asia – with nearly 2/3 of all urban heat exposure (person days)

Region	Urban settlements	Population (millions)	Heat exposure (person days - millions)	Avg GDP 2015 (USD)
Asia	7'737	2'143.1	184.76	3'489.56
Africa	2'805	561.9	18.61	2'242.48
L. America & Caribbean	1'076	350.8	4.10	8'643.81
Northern America	372	172.9	0.74	56'057.38
Oceania	86	19.0	0.02	37'29 <mark>9.56</mark>
Europe	1'059	287.7	0.01	27'098.75
Total	13'135	3'535.3	208.2	





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a co-designed

service that will provide **every** urban area in the world with data and knowledge on the health risks from exposure to extreme heat. These insights will help cities develop plans to adapt to heat and reduce the impact on citizens' health and local economies.







The need for a Global Heat Resilience Service Priscilla Idele: UNFPA



Recent experience: heat mapping campaigns Hunter Jones, NOAA

Coffee break



Mapping existing initatives, resources, and partnerships Roundtable



What needs, opportunities and challenges do we foresee in developing a Global Heat Resilience Service?





Summary & next steps Martyn Clark, GEO Secretariat

Global Heat Resilience Service: minimum requirements?

- Trusted, consistent definition(s) of heat as a hazard
- sufficient (spatial) information on which to develop heat resilience policies, plans, and projects
- Flexibility to incorporate local data and information
- Modular and extensible approach to understanding risks to match local capabilities
- Licensing and interoperability
- Technical support and capacity building translation of evidence into action
- Risk knowledge and communication tools





Project design







An articulation of what demand the product will fill

Use cases identified with users





A scientific and technical approach defined



Seed funding secured

Partnerships









Next steps





Thank you!



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For more information contact: Martyn Clark Urban Resilience Coordinator GEO Secretariat mclark@geosec.org