

# ACHIEVING A RESILIENT PLANET WITH GEOSPATIAL INFORMATION

---

7th High-Level Forum  
on UN-GGIM

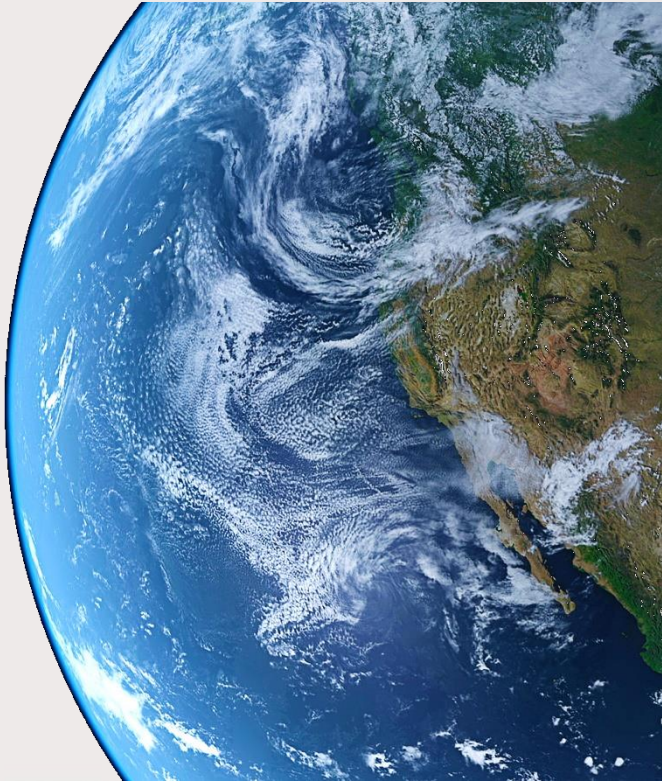
[ggim.un.org](http://ggim.un.org) | [@UNGGIM](https://twitter.com/UNGGIM)



**UN-GGIM**  
UNITED NATIONS  
COMMITTEE OF EXPERTS ON  
GLOBAL GEOSPATIAL  
INFORMATION MANAGEMENT



# Geospatial information is the data of our world



- Geospatial information is a critical component of the national infrastructure and knowledge economy.
- It is an essential part of a national infrastructure and knowledge-based economy that provides a country with the blueprint for situations and their locations, and the means to integrate a wide range of government services to contribute to economic growth, national security, sustainable social development, environmental protection and national prosperity.
- All governments, both at the national and local levels, hold considerable quantities of geospatial information and location data - for example databases of schools and school performance, flood risk data and mobile phone ownership data



# Climate (and) Resilience x Geospatial Information

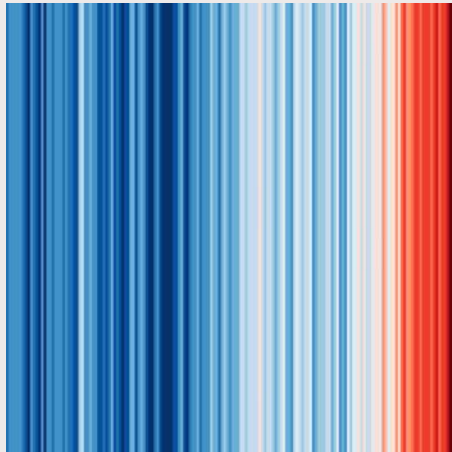
- Reducing inequality in this regard is vital. Geospatial information is the basis for evidence-based decisions as it provides the ***where, when, and how*** aspects of decision-making.
- Acting on climate resilience is not just an imperative for the Committee of Experts; **it is an imperative for the world.**



# 2024 Antigua and Barbuda – SIDS4



*Enhancing science-based and innovative approaches, including sustainable development-oriented, inclusive and responsible use of artificial intelligence, in the non-military domain, in full respect, promotion and protection of human rights and international law, for the collection, storage, analysis, disaggregation, dissemination and use of demographic data in SIDS, including use of geospatial technologies*



*Providing high-quality **spatial data** for SIDS and working to downscale global datasets to provide accurate information for SIDS.*



# Global Development Frameworks

# Global Geospatial Frameworks

**2030 AGENDA FOR SUSTAINABLE DEVELOPMENT**



**INTEGRATED GEOSPATIAL INFORMATION FRAMEWORK (IGIF)**

Sendai Framework for Disaster Risk Reduction 2015-2030

Paris Agreement on Climate Change

Strategic Framework on Geospatial Information and Services for Disasters

Global Statistical Geospatial Framework (GSGF)

Framework for Effective Land Administration (FELA)

Operational Framework for Integrated Marine Geospatial Information Management (UN-IGIF-Hydro)

*Antigua and Barbuda Agenda for SIDS*

*Addis Ababa Action Agenda*

*Habitat III New Urban Agenda*

*Our Ocean, Our Future: Call for Action*

*Global Fundamental Geospatial Data Themes*

*Global Geodetic Reference Frame (GGRF)*

*National Institutional Arrangements in Geospatial Information Management*

*Role of Standards in Geospatial Information Management*

*Compendium on Licensing of Geospatial Information*

*Statement of Shared Guiding Principles for Geospatial Information Management*

*Future Trends in Geospatial Information Management Reports*

*SDGs Geospatial Roadmap*

# Across *Our* Work Programme

## 14/101 - Enhancing global geospatial information management arrangements

- Recognized the increasingly complex and challenging operating environment for national geospatial, mapping and cadastral agencies... .. stressed the importance to wholistically consider environment, climate, resilience and sustainability [and] consider these items as a matter of priority.

## 14/108 - Geospatial information for climate and resilience

- Re-emphasized that acting on climate resilience remains and urgent imperative for the Committee of Experts, and that it is critically important to advocate for and raise awareness of the potential of geospatial information for climate resilience.
- promoting awareness and understanding of the importance of geospatial information in all its form to address climate challenges and resilience.
- encouraged Member States and relevant stakeholders to share their national, regional, and global experiences demonstrating the role and relevance of geospatial information for climate resilience and using this body of evidence to advocate for local, national, and regional actions.

## 14/109 Integration of geospatial, statistical and other related information

- Emphasized the importance of coordination and collaboration... .. noting that the many data integration challenges including for the production of national development indicators, the SDG indicators require the full and coordinated implementation of the UN Global Statistical Geospatial Framework.

## 14/110 - Integrated geospatial information for effective land administration and management

- ...acknowledged the importance to address the integration of terrestrial, maritime, built and cadastral domains to understand the complexities in addressing the land-sea interface...

## 14/111 - Integrated marine geospatial information

- Acknowledged the importance and encouraged a coordinated, cross-cutting and wholistic approach in addressing the integration of the terrestrial, maritime, built and cadastral domains, noting its implication for addressing climate challenges, coastal resilience, sustainable coastal communities and blue economy.



# The UN-GGIM Task Team on Geospatial Information for Climate Resilience



Mr David Henderson, Chief Geospatial Officer  
Ordnance Survey  
**United Kingdom**



Mr David McCollin, Chief Surveyor  
Lands and Surveys Department  
**Barbados**



Mr Viliami Folau, Geodetic Surveyor  
Ministry of Lands & Natural Resources  
**Tonga**

## Member States

Argentina
Australia
Austria
Bahamas
Barbados
Brazil
Canada
Chile
Ethiopia
Germany
Mexico
Mozambique
Nepal
Singapore
South Africa
Tonga
Turkey
United Kingdom
United States of America



UN-GGIM

United Nations Committee of Experts on Global Geospatial Information Management  
Task Team on Geospatial Information for Climate Resilience

ggim.un.org

# The Road So Far

- Since its inception in 2011, UN-GGIM has worked on climate resilience and SIDS issues across its work programme
- In 2022, the Cambridge Conference community looked at ‘How’ NGIAs and their sponsor governments can help to adapt to our changing climate and mitigate the impacts on our environment, economies and communities.
- In 2023: the Ordnance Survey and Secretariat developed the “Geospatial Information for Climate Resilience – What Does UN-GGIM Do?” and submitted it as a background document at the 13th Session of UN-GGIM in August 2023 and a Side Event was convened at the 13th session to raise awareness of the paper
- Leading to UN-GGIM Decision 13/107 and the formation of the UN-GGIM Task Team on Climate Resilience



## Geospatial Information for Climate Resilience – What Does UN-GGIM Do?

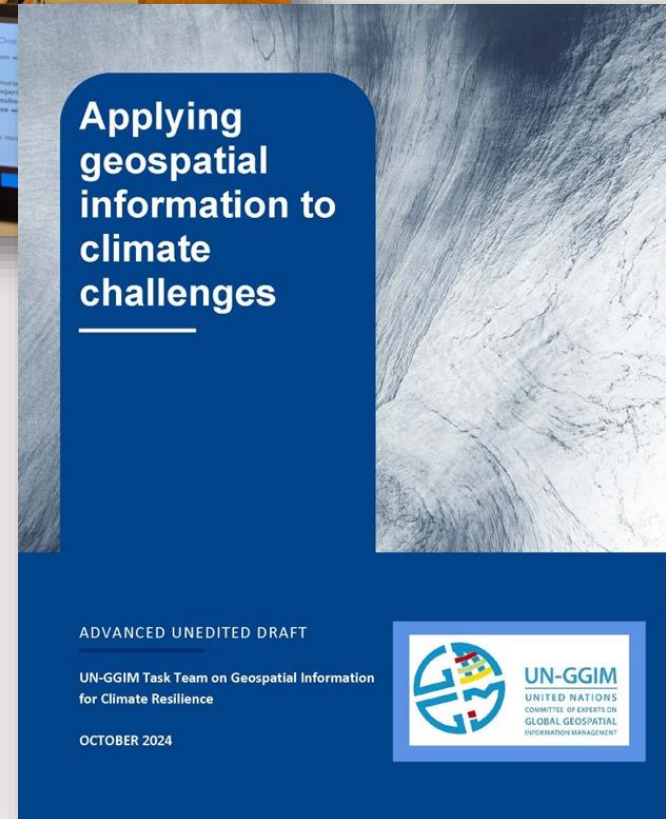
A Discussion Paper





# The Road So Far

- In establishing the task team, we have focused on bringing together Member States
- On 24 January 2024, the Bureau welcomed the establishment of the Task Team, our Terms of Reference, plan of work, and structure of our paper “Applying Geospatial Information to Climate Challenges”
- Since the bureau’s endorsement, we have advanced on this papers, collated many examples of good practice, and are supporting the Advisory Committee of the 7<sup>th</sup> High-Level Forum with delivering a day on climate and resilience.
- We convened a side event at SIDS4.



UN-GGIM

United Nations Committee of Experts on Global Geospatial Information Management  
Task Team on Geospatial Information for Climate Resilience

ggim.un.org

# Applying geospatial information to climate challenges

ADVANCED UNEDITED DRAFT

UN-GGIM Task Team on Geospatial Information  
for Climate Resilience

OCTOBER 2024



Download the report now!



Report lead authors:

James Norris, Ordnance Survey, Great Britain

Michelle St Clair, Lands and Surveys Department,  
Barbados

The Task Team would like to acknowledge and thank colleagues from around the globe who have contributed to the preparation of this report.



UN-GGIM

United Nations Committee of Experts on Global Geospatial Information Management  
Task Team on Geospatial Information for Climate Resilience

ggim.un.org