



# PROGRESS ON METHODOLOGY SHEETS

**Session One: Environment Statistics Toolbox**

**Sixth Meeting of the Expert Group on Environment Statistics, New York  
21-23 May 2019**



# Session One: Environment Statistics Toolbox

- Complete methodology sheets, under review and not yet covered
- Cross cutting issues
- More considerations



## Draft methodology sheets

Methodology Sheets	Drafters/Contributers	Comments from	Status	Next Steps
<b>GHG (part of 1.3.1 Air quality and all 3.1.1 GHG emissions)</b>	Ms. Denise Kronemberger, Brazil; Mr. Michael Nagy, UN-ECE; Mr. Leo Koltola, Finland and Mr. Anand Sookun	UNFCCC, Suriname, New Zealand, EEA, Brazil	Draft	Finalize
<b>Natural Disasters (4.1.1 Occurrence, 4.1.2 Impact)</b>	UNSD; Ms. Angela Ferruzza, Italy; Mr. Michael Nagy, UN-ECE; Ms. Rayén Quiroga, UN-ECLAC; Ms. Kristina Taboulchanas, UN-ECLAC	ESCAP, ECLAC	Draft	Consider to enlarge? Or finalize as it is?
<b>Geology (Topic 1.1.3)</b>	Mr. Francisco Javier Jiménez Nava, Mexico	Suriname, Palestine	Draft	Finalize
<b>Environmental information and awareness (four topics, 6.4.1, 6.4.2, 6.4.3, 6.4.4)</b>	Mr. Manasa Viriri, Zimbabwe and Mr. Kwashira Chigodora, Botswana	Burundi, Suriname	Incomplete draft	Complete draft
<b>Marine water quality (Topic 1.3.3)</b>	Ms. Jillian Campbell, UN Environment	New Zealand, Suriname, Jamaica, EEA, Tanzania	Draft (new)	Finalize or enlarge?

# Topics covered by Methodology Sheets

Component 1: Environmental Conditions and Quality	Component 2: Environmental Resources and their Use	Component 3: Residuals
<b>Sub-component 1.1: Physical Conditions</b>	<b>Sub-component 2.1: Mineral Resources</b>	<b>Sub-component 3.1: Emissions to Air</b>
Topic 1.1.1: Atmosphere, climate and weather	Topic 2.1.1: Stocks and changes of mineral resources	Topic 3.1.1: Emissions of greenhouse gases
Topic 1.1.2: Hydrographical characteristics	Topic 2.1.2: Production and trade of minerals	Topic 3.1.2: Consumption of ozone depleting substances
Topic 1.1.3: Geological and geographical information	<b>Sub-component 2.2: Energy Resources</b>	Topic 3.1.3: Emissions of other substances
Topic 1.1.4: Soil characteristics	Topic 2.2.1: Stocks and changes of energy resources	<b>Sub-component 3.2: Generation and Management of Wastewater</b>
<b>Sub-component 1.2: Land Cover, Ecosystems and Biodiversity</b>	Topic 2.2.2: Production, trade and consumption of energy	Topic 3.2.1: Generation and pollutant content of wastewater
Topic 1.2.1: Land cover	<b>Sub-component 2.3: Land</b>	Topic 3.2.2: Collection and treatment of wastewater
Topic 1.2.2: Ecosystems and biodiversity	Topic 2.3.1: Land use	Topic 3.2.3: Discharge of wastewater to the environment
Topic 1.2.3: Forests	Topic 2.3.2: Use of forest land	<b>Sub-component 3.3: Generation and Management of Waste</b>
<b>Sub-component 1.3: Environmental Quality</b>	<b>Sub-component 2.4: Soil Resources</b>	Topic 3.3.1: Generation of waste
Topic 1.3.1: Air quality	Topic 2.4.1: Soil resources	Topic 3.3.2: Management of waste
Topic 1.3.2: Freshwater quality	<b>Sub-component 2.5: Biological Resources</b>	<b>Sub-component 3.4: Release of Chemical Substances</b>
Topic 1.3.3: Marine water quality	Topic 2.5.1: Timber resources	Topic 3.4.1: Release of chemical substances
Topic 1.3.4: Soil pollution	Topic 2.5.2: Aquatic resources	
Topic 1.3.5: Noise	Topic 2.5.3: Crops	
	Topic 2.5.4: Livestock	
	Topic 2.5.5: Other non-cultivated biological resources	
	<b>Sub-component 2.6: Water Resources</b>	
	Topic 2.6.1: Water resources	
	Topic 2.6.2: Abstraction, use and returns of water	

Complete
Draft under review
Not started

# Topics covered by Methodology Sheets

Component 4: Extreme Events and Disasters	Component 5: Human Settlements and Environmental Health	Component 6: Environmental Protection, Management and Engagement
<b>Sub-component 4.1: Natural Extreme Events and Disasters</b>	<b>Sub-component 5.1: Human Settlements</b>	<b>Sub-component 6.1: Environmental protection and resource management expenditure</b>
Topic 4.1.1: Occurrence of natural extreme events and disasters	Topic 5.1.1: Urban and rural population	Topic 6.1.1: Government environmental protection and resource management expenditure
Topic 4.1.2: Impact of natural extreme events and disasters	Topic 5.1.2: Access to selected basic services	Topic 6.1.2: Corporate, non-profit institution and household environmental protection and resource management expenditure
<b>Sub-component 4.2: Technological Disasters</b>	Topic 5.1.3: Housing conditions	<b>Sub-component 6.2: Environmental Governance and Regulation</b>
Topic 4.2.1: Occurrence of technological disasters	Topic 5.1.4: Exposure to ambient pollution	Topic 6.2.1: Institutional strength
Topic 4.2.2: Impact of technological disasters	Topic 5.1.5: Environmental concerns specific to urban settlements	Topic 6.2.2: Environmental regulation and instruments
	<b>Sub-component 5.2: Environmental Health</b>	Topic 6.2.3: Participation in MEAs and environmental conventions
	Topic 5.2.1: Airborne diseases and conditions	Topic 6.3.1: Preparedness for natural extreme events and disasters
	Topic 5.2.2: Water-related diseases and conditions	Topic 6.3.2: Preparedness for technological disasters
	Topic 5.2.3: Vector-borne diseases	<b>Sub-component 6.4: Environmental Information and Awareness</b>
	Topic 5.2.4: Health problems associated with excessive UV radiation exposure	Topic 6.4.1: Environmental Information
	Topic 5.2.5: Toxic substance- and nuclear radiation-related diseases and conditions	Topic 6.4.2: Environmental Education
Complete		Topic 6.4.3: Environmental Perception and Awareness
Draft under review		Topic 6.4.4: Environmental engagement
Not started		

# Session One: Environment Statistics Toolbox

- What should be updated/further developed?
  - Cross-cutting areas for statistics: climate change, oceans, any other?
  - Cross-cutting themes: ecosystem services, GIS and EO
  - Cross-cutting aspects in env. statistical developments: definitions, units, methods, classifications

## More considerations

- Introduce authors and note on peer review?
- Other things?



Work groups on methodology sheets to assess  
status and direction – 1 hour

Groups summaries and discussions – 45 min

Next steps – 15 min



Participant	Country	Awareness	Disasters	Geology	GHG	Oceans	Wastewater
Anjali Aradhana Sangeeta Kisoensingh	Suriname				x		
Ruth Minja	Tanzania	x					
Anand Sookun	Consultant						x
Angela Ferruzza	Italy		x				
Arthur Ignatius Maria Denneman	Netherlands			x			
Cornelis Peter Balde	United Nations Uni.	x					
Dorothee Ouissika	AfDB	x					
Emmanuel Menyha	Uganda						x
Fanta Kaba	Consultant					x	
Francesco Tubiello	FAO				x		
Francisco Javier Jimenez Nava	Mexico			x			
Ismat Thalji Farhan Haddad	Jordan		x				
Ivone Lopes Batista	Brazil			x			
Janet Geoghagen-Martin	Jamaica					x	
Kakanyo Fani Dintwa	Botswana	x					
Kosuke Kawai	Japan						x
Maher Sbieh	State of Palestine						x
Manasa Viriri	Zimbabwe	x					
Michael Nagy	ECE		x				
Moumouni Gouni Feysal	Togo					x	
Pal Boday	Hungary			x			
Rayen Emilia Quiroga Martinez	ECLAC	x					
Roberta Pignatelli	EEA				x		
Solomon Olaye	Consultant		x				
Sushil Kumar Sharma	Nepal				x		
Virginie Gillet	FAO					x	
Vivian Ilarina	Philippines		x				
Vlad Trusca	UNFCCC				x		
Xiaoning Gong	ECA						x



# Common questions

- Which methodology sheets are most used and which least?
- Consider growing information needs, is the level of details (definitions, methods) adequate?
- How many more methodology sheets should be done?
- How have countries used the methodology sheets?
- Have they been used by institutions apart from the NSOs?
- What were the most useful aspects?
- Can they be improved?
- How can they be applied to UNSD's capacity development work?
- Are the linkages between methodology sheets clear?



Sub-component 1.1: Physical Conditions	Author	Contributions
Topic 1.1.1: Atmosphere, climate and weather		
Topic 1.1.2: Hydrographical characteristics		
<b>Sub-component 1.3: Environmental Quality</b>		
Topic 1.3.2: Freshwater quality		
Topic 1.3.4: Soil pollution		
Topic 1.3.5: Noise		
<b>Sub-component 2.5: Biological Resources</b>		
Topic 2.5.2: Aquatic resources		
Topic 2.5.5: Other non-cultivated biological resources		
<b>Sub-component 3.1: Emissions to Air</b>		
Topic 3.1.2: Consumption of ozone depleting substances		
Topic 3.1.3: Emissions of other substances		
<b>Sub-component 3.2: Generation and Management of Wastewater</b>		
<b>Sub-component 3.4: Release of Chemical Substances</b>		
Topic 3.4.1: Release of chemical substances		
Topic 4.2.1: Occurrence of technological disasters		
Topic 4.2.2: Impact of technological disasters		
<b>Sub-component 5.2: Environmental Health</b>		
Topic 5.2.1: Airborne diseases and conditions		
Topic 5.2.2: Water-related diseases and conditions		
Topic 5.2.3: Vector-borne diseases		
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<b>Sub-component 6.1: Environmental protection and resource management expenditure</b>		
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<b>Sub-component 6.2: Environmental Governance and Regulation</b>		
Topic 6.2.1: Institutional strength		
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Topic 6.3.2: Preparedness for technological disasters		

