

SIXTIETH SESSION OF THE IPCC
Istanbul, Türkiye, 16 – 19 January 2024

IPCC-LX/INF. 5
(18.XII.2023)
Agenda Item: 10.4
ENGLISH ONLY

PROGRESS REPORTS

Update from the Task Force on National Greenhouse Gas Inventories

(Prepared by the Co-Chairs of the Task Force on National Greenhouse Gas Inventories)

(Submitted by the Secretary of the IPCC)

PROGRESS REPORTS

Update from the Task Force on National Greenhouse Gas Inventories

This report describes the activities undertaken by the Task Force on National Greenhouse Gas Inventories (TFI) since the last update presented during the Fifty-seventh Session of the IPCC in September 2022:

- The Expert Meeting on Use of Atmospheric Observation Data for Emission Inventories;
- The development and maintenance of the IPCC Inventory Software;
- The data population and maintenance of the IPCC Emission Factor Database;
- The Scoping Meeting for the Methodology Report on Short-lived Climate Forcers (SLCFs);
- Others;
- Set up of the TFI Technical Support Unit (TSU).

1. Expert Meeting on Use of Atmospheric Observation Data for Emission Inventories

The TFI held an Expert Meeting on Use of Atmospheric Observation Data in Emission Inventories in accordance with the decision taken by the Panel at its 54th (bis) Session (Decision IPCC-LIV(bis)-1) at the World Meteorological Organization (WMO) Headquarters in Geneva, Switzerland, from 5 to 7 September 2022. It was held in a hybrid format (in-person meeting with virtual participation).

The expert meeting served as a forum for exchange of information among national greenhouse gas (GHG) inventory compilers and atmospheric observation researchers. It was agreed that a long-term interaction between these two communities may be beneficial to each other. Atmospheric measurements have proved useful in verifying national GHG inventory data in specific cases, and examples were presented at the meeting. Although the expert meeting was not intended to produce specific methodological guidance, the discussion and conclusions documented in the report of the meeting are expected to inform future work of the TFI. The report is published on IPCC TFI website (https://www.ipcc-nggip.iges.or.jp/public/mtdocs/2209_AtmObs.html).

2. The development and maintenance of the IPCC Inventory Software

The TFI organized an Expert Meeting to collect IPCC Inventory Software (Software) and IPCC Emission Factor Database (EFDB) users' feedback from 1 to 3 May 2023 in Bangkok, Thailand. The focus of the meeting was, among others, the testing of Industrial Processes and Product Use (IPPU) and Waste sectors in version 2.85 of the Software¹. Outcomes of this Expert Meeting will be used to further develop the Software. The TFI extends its appreciation to the Office of Natural Resources and Environmental Policy and Planning (ONEP) of Thailand and to the Thammasat University Research and Consultancy for hosting this expert meeting.

The TFI continued completing and enhancing functionalities of the Software. A new version -2.89- with enhanced capacity to estimate direct and indirect anthropogenic GHG emissions and removals applying any of the methodological tiers in all inventory sectors (Energy, IPPU, Agriculture, Forestry and Other Land Use (AFOLU), Waste) and all approaches for the land representation in the AFOLU sector, was released in November 2023. In addition, work by the TFI Technical Support Unit (TSU) is under way to further upgrade the Software to help the United Nations Framework Convention on Climate Change (UNFCCC) secretariat facilitate interoperability between the Software and the UNFCCC Enhanced Transparency Framework (ETF) reporting tool that will be used for reporting under the Paris Agreement. Version 2.89 allows users to export GHG estimates and activity data to the UNFCCC ETF reporting tool for the Energy, Waste and Agriculture sectors of the national GHG inventory.

¹ <https://www.ipcc-nggip.iges.or.jp/software/index.html>

Further, the TFI TSU has been making efforts to help GHG inventory compilers better understand and use the Software by producing a User's Guidebook. The Guidebook is not subject to the formal IPCC review process, and thus does not complement/replace good practice as set in the IPCC Guidelines, while it aims to support the use of Software's functionalities. In December 2023, the first version of the Guidebook for the Energy Sector and the second version of the Guidebook for the Land Representation were published on IPCC TFI website.

3. The data population and maintenance of the IPCC Emission Factor Database (EFDB)

The TFI has continued its work to maintain, improve and promote the EFDB².

The TFI held the 21st meeting of the EFDB Editorial Board (EB21) and the 21st Data meeting (DM21) from 16 to 19 May 2023 in Christchurch, New Zealand, in a hybrid format.

The Editorial Board considered data proposals including those submitted by experts/participants to DM21 and a total of 2,445 data were accepted for inclusion into the EFDB, additional 19 data have been accepted for publication in the "Extra page" at the EFDB website.

The Editorial Board also discussed about the enhancement and possible future development of the EFDB including on the population procedures, improvement of user interface and consistency in the application of data evaluation criteria.

The TFI extends its appreciation to the New Zealand Ministry for Primary Industries for hosting EB21 and DM21.

In September 2023, TFI TSU published the new version of the EFDB with enhanced categorization of sources according to the 2019 Refinement of the 2006 IPCC Guidelines for National Greenhouse Gas Inventories (*2019 Refinement*) and uploaded relevant values contained in the *2019 Refinement*.

4. The Scoping Meeting for the Methodology Report on Short-lived Climate Forcers (SLCFs)

On 5 May 2023 the IPCC Secretary sent a letter to member governments, observer organizations and members of IPCC Bureau and Bureau of TFI (TFB) inviting to nominate expert candidates to the Scoping Meeting for the Methodology Report on Short-lived Climate Forcers (SLCFs) to be produced by the TFI during the Seventh Assessment Report (AR7) Cycle. Based on the submissions received by 30 June 2023, the TFB has invited 91 experts to attend the Scoping Meeting that will be held in Brisbane, Australia, on 26-28 February 2024.

The TFI extends its appreciation to the Government of Australia for hosting the Scoping Meeting.

5. Others

On 4-5 October 2023 the TFB virtually held its 35th meeting (TFB35) to discuss the plan of activities for the year 2024 and the associated budget needs. In particular, the TFB agreed to:

1. Extend the terms of members of the Editorial Board of the EFDB till the end of 2024 and in the meanwhile to work on a revision of data population procedure to improve its efficiency;
2. Propose options to the Panel on addressing the invitation by the 26th Conference of the Parties (COP26) to the UNFCCC to hold a Workshop on the Software and its interoperability with UNFCCC reporting tools;
3. Explore the possibility to hold an expert meeting together with Working Group I (WGI) and Working Group III (WGIII) on bridging gaps between modelled GHG emissions and removals in WGI and WGIII reports and methodological approaches applied by UNFCCC Parties in their national GHG inventories.

² <https://www.ipcc-nggip.iges.or.jp/EFDB/main.php>

6. Set up of the TFI Technical Support Unit (TSU)

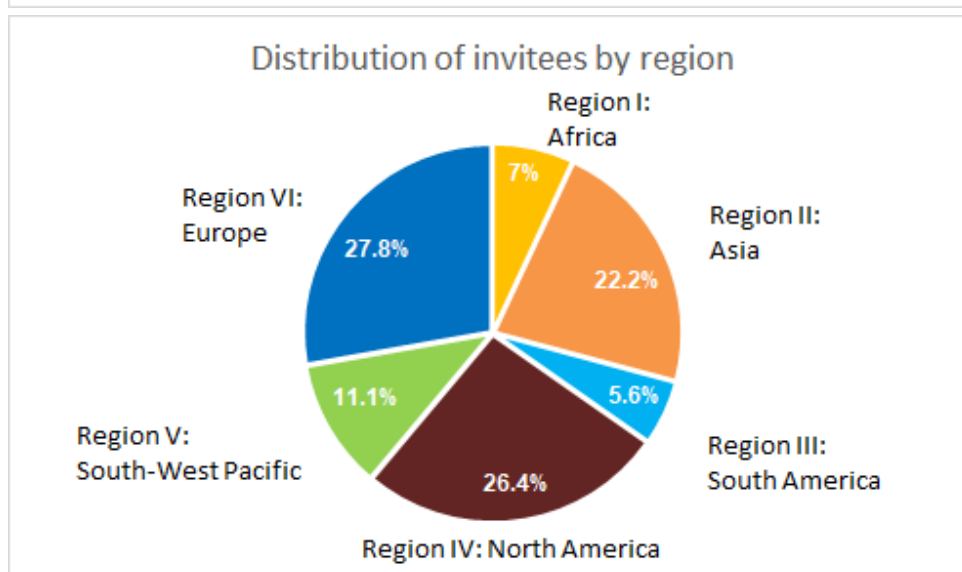
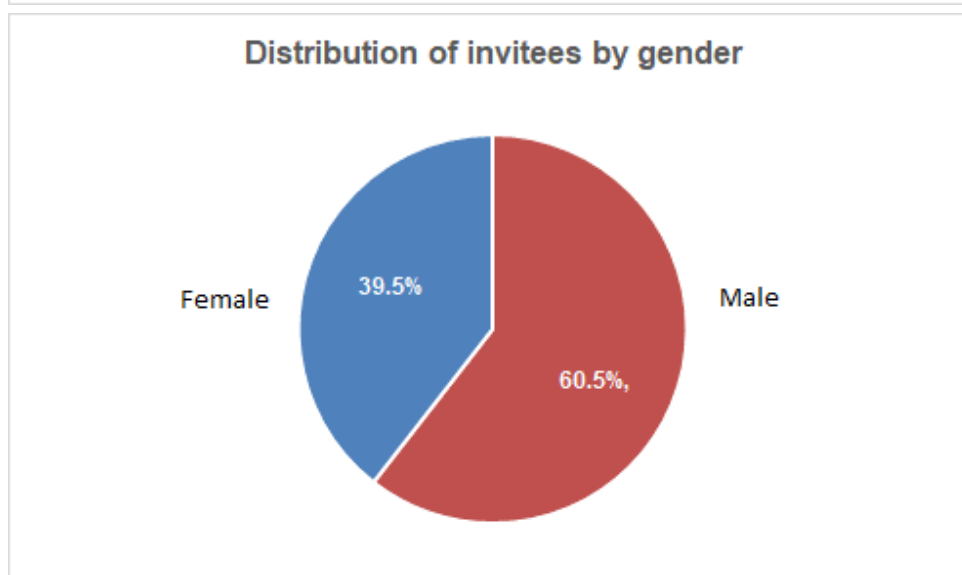
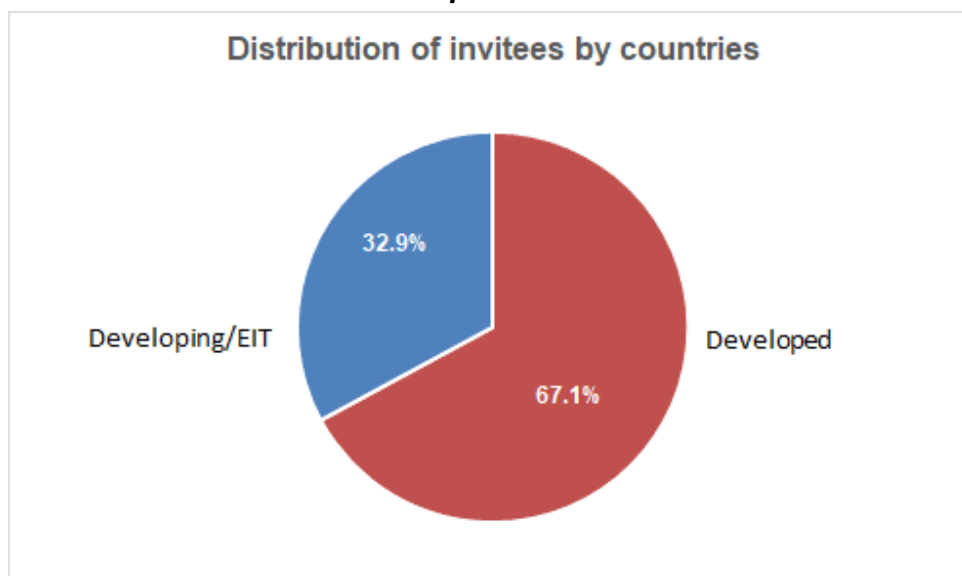
The IGES (Institute for Global Environmental Strategies) continues to house and staff the TFI TSU in Kanagawa Prefecture, Japan. The recruiting process for some positions are ongoing and we expect to fill all positions by late 2023 to early 2024. The structure of the TSU is expected to be as follows: 1 Head of Operations, 1 Head of Science, 1 Deputy Head, 3 Programme Officers, 1 IT Officer, 1 Admin.

For this fiscal year, the Government of Japan provides JPY 150,000,000 to support the TFI TSU, and office space provided by the Kanagawa Prefecture. Approximately 60% has been allocated to personnel expenses, 20% to travel and transportation, 10% to office expenses, 10% other expenses.

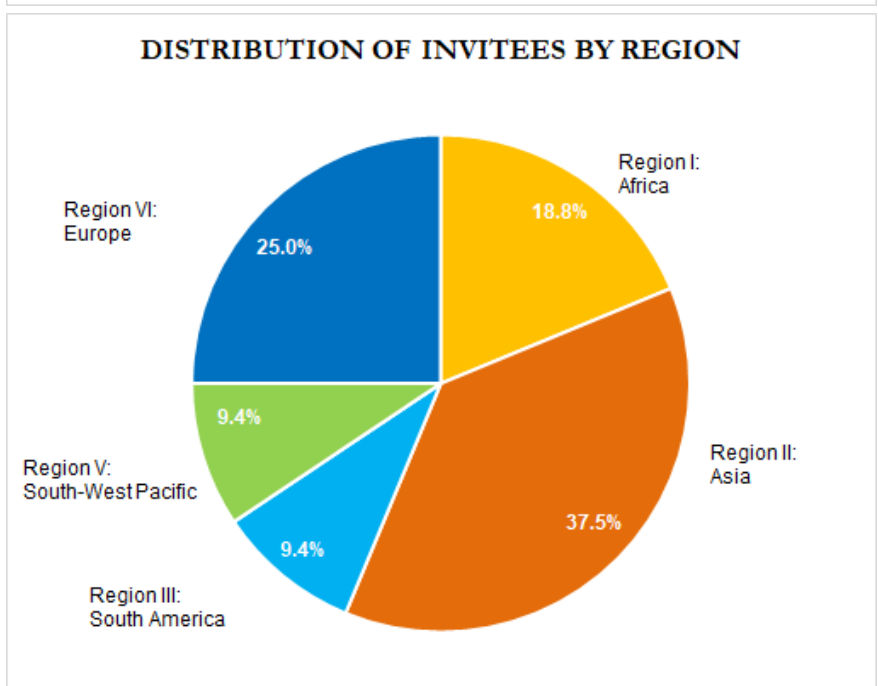
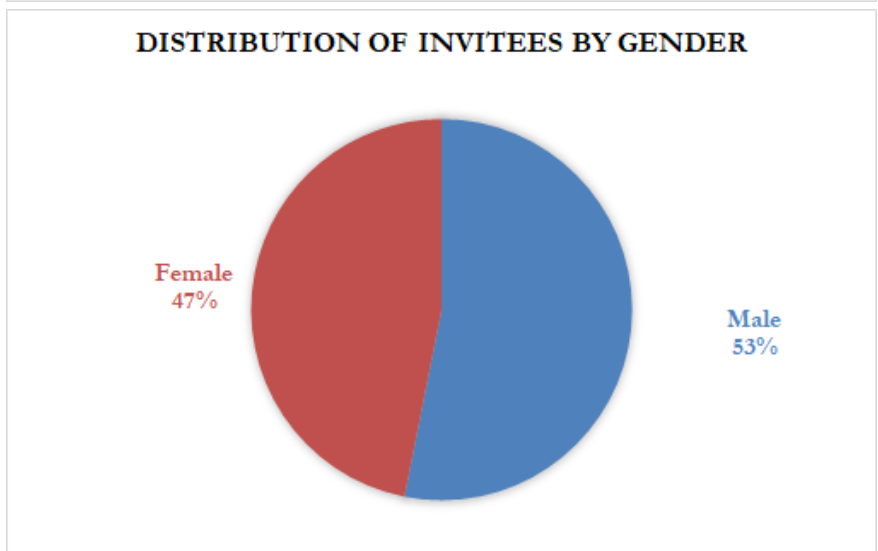
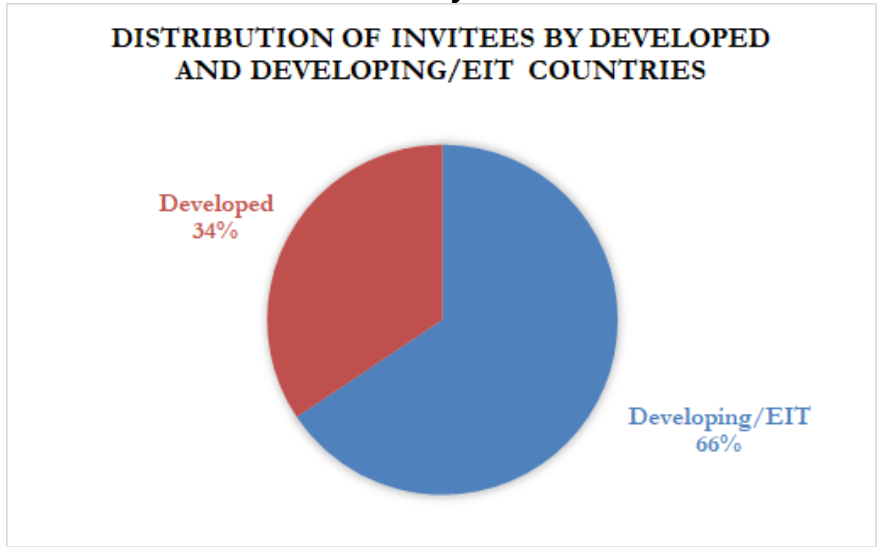
Annex I: Statistics

Expert Meeting on Use of Atmospheric Observation Data in Emission Inventories

5 - 7 September 2022

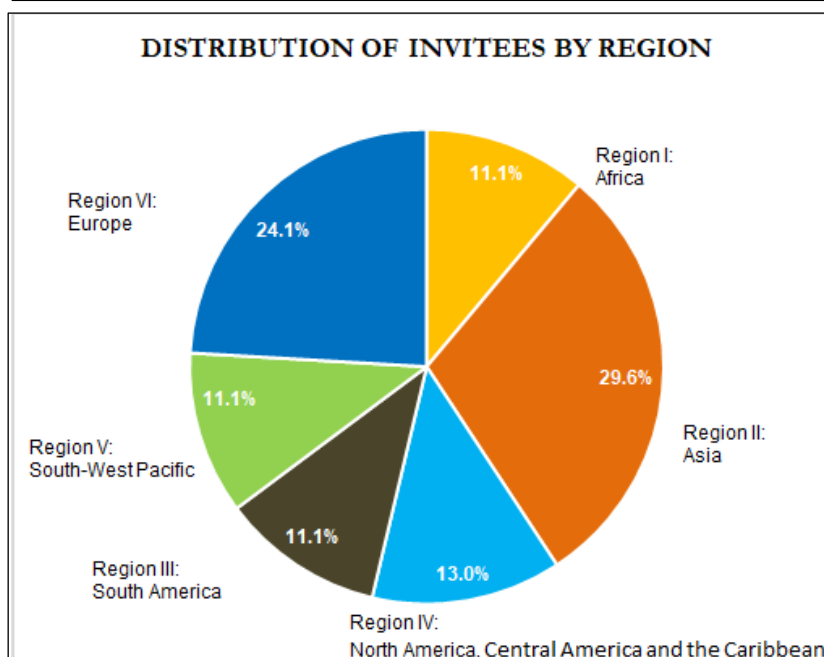
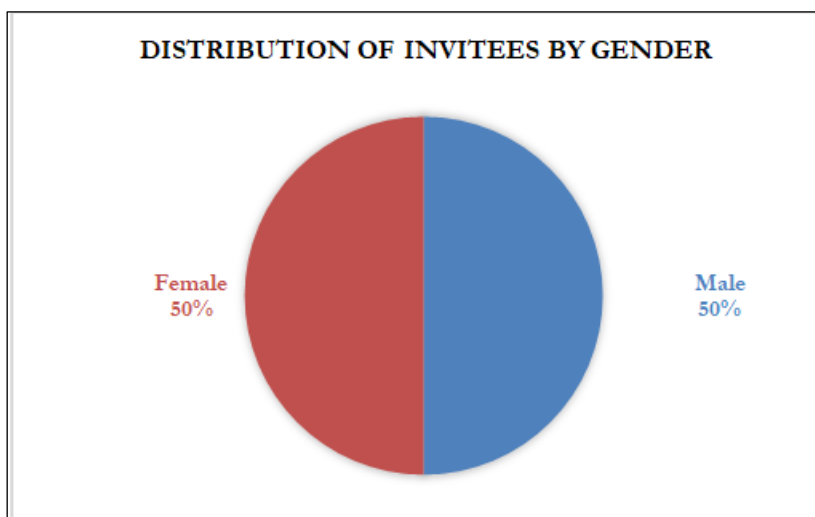
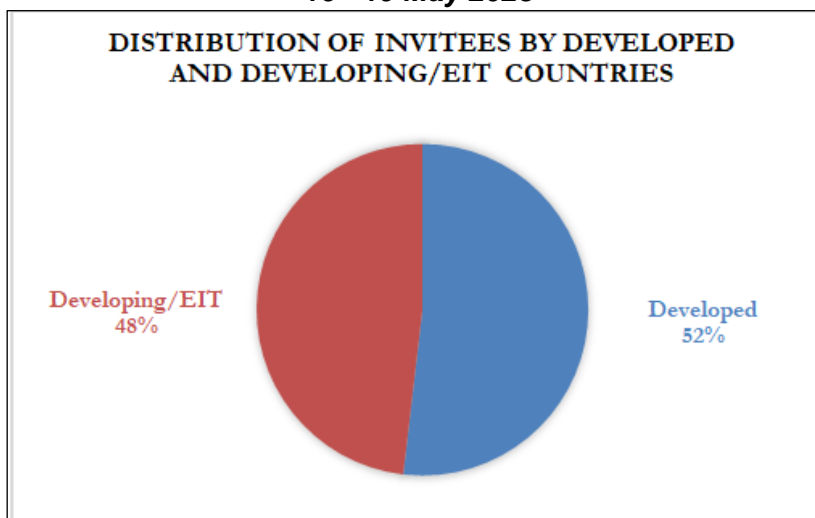


**Expert Meeting to collect Software and EFDB users' feedback
1 - 3 May 2023**



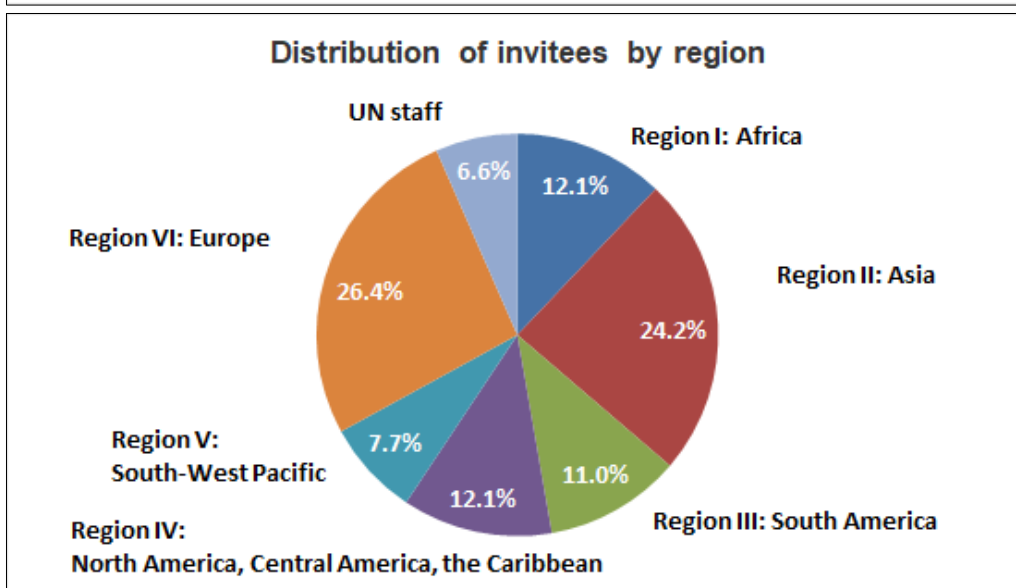
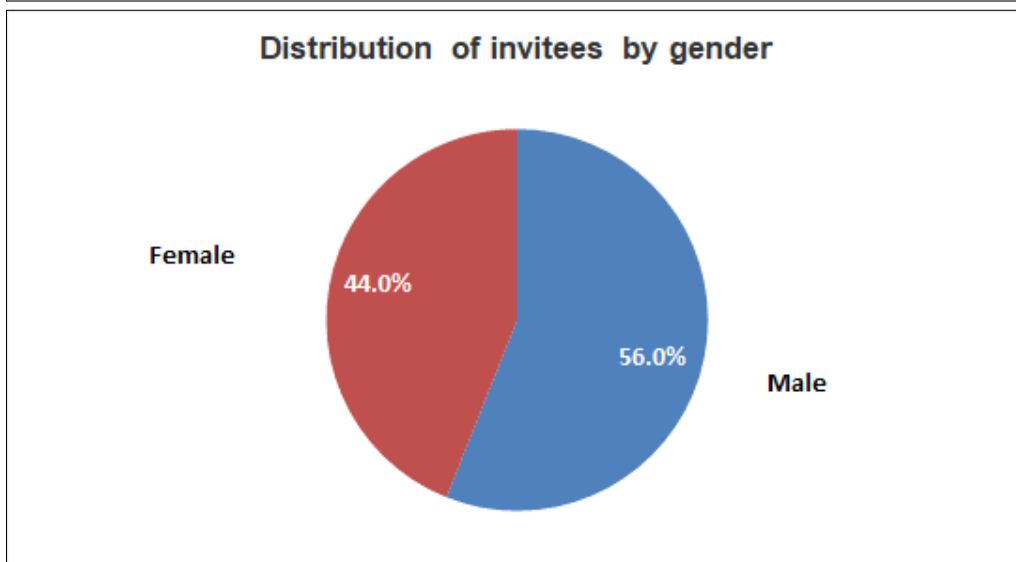
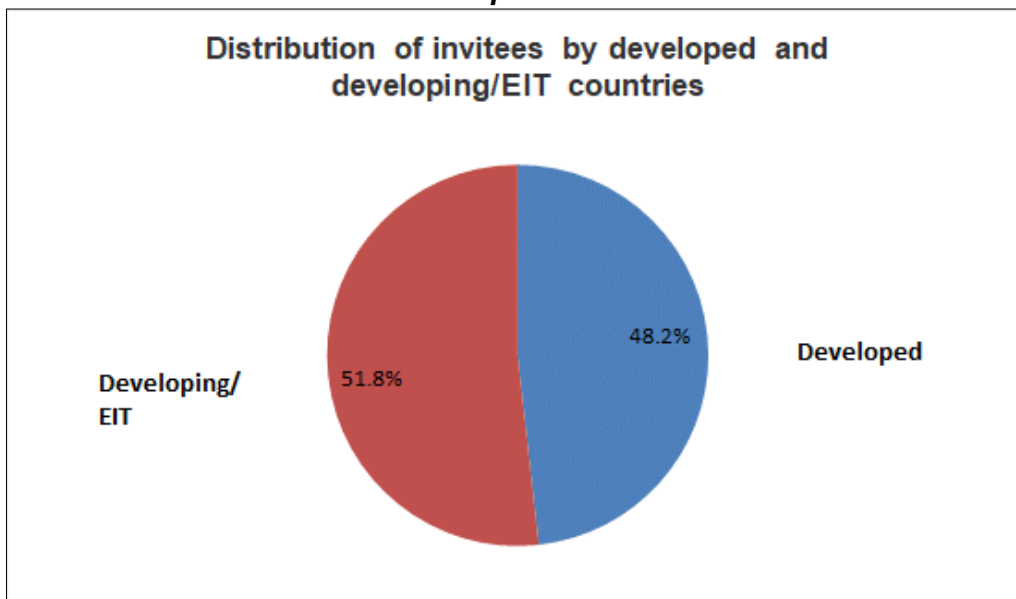
Please note that UN staff participants are not included in these statistics

**EFDB Editorial Board (EB21) and Data meeting (DM21)
16 - 19 May 2023**



Please note that UN staff participants are not included in these statistics

**Expert Meeting on Use of Atmospheric Observation Data in Emission Inventories
16 - 19 September 2022**



Annex II: List of Participants

Expert Meeting on Use of Atmospheric Observation Data in Emission Inventories

5 - 7 September 2022

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Eriko Nakamura

Takeshi Enoki (Consultant)

Expert Meeting to collect Software and EFDB users' feedback

1 - 3 May 2023

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Chart Chiemchaisri

Kasetsart University
Thailand

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Higher Normal School of Nouakchott
Mauritania

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Lisa Hanle (Consultant)

EFDB Editorial Board (EB21) and Data meeting (DM21)

16 – 19 May 2023

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Laura Elena Dawidowski
National Atomic Energy Commission
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Muhammad Arif Goheer
Global Change Impact Studies Centre
Pakistan

Stephen John Del Grosso
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Centre for Environment Science and Climate
Resilient Agriculture
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Hossein Khajepour
Sharif University of Technology
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Rae Hyun Kim
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PJSC National Power Company "Ukrenergo"
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Jeon Eui-Chan

Sejong University
Republic of Korea

Tim Clough

Lincoln University
New Zealand

Yoshitaka Ebie

National Institute for Environmental Studies
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Carla Gómez Creutzberg

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Nawshad Haque

CSIRO
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Felix Kullmann

Research Center Jülich
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Banira Lombardi

CIFICEN
Argentina

Katlyn Elizabeth MacKay

Environmental Defense Fund
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Phyllis Wanjugu Ndung'u
University of Pretoria
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AgResearch Ltd
New Zealand

Xiaochi Zhou
California Air Resources Board
United States

Andrew VanderZaag
Agriculture and Agri-Food Canada
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