

Update on the IPCC seventh assessment cycle (inc. ITT info on Cities & Adaptation)

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CCI 14th Colocation meeting
ECSAT, Harwell, UK

17/11/2024

Reminder: IPCC structure & types of reports

WG1	Physical Science Basis
WG2	Impacts, Adaptation, Vulnerability
WG3	Mitigation
TFI	Task Force for National GHG Inventories

WG reports	3 reports each cycle 1 per WG Larger, more comprehensive
Special Reports	Shorter, more focused Collaboration across 1-3 WGs Only 1 in AR7 on Cities
Methodology Reports	Run by TFI Guidance on estimating emissions Traditionally for LLGHGs AR7: SLCFs & CDR/CCS/CCU

WG = Working Group
CDR = Carbon Dioxide Removal
CCS = Carbon Capture & Storage
CCU = Carbon Capture & Utilization



CONTRIBUTE TO THE LITERATURE

IPCC assessments are as good as the literature available.

Look out for the various cut off dates for literature for the different reports.



AS AUTHORS OR REVIEW EDITORS

Selected from nominations by governments and observer organizations. Look out for the calls for nomination of authors and contact your IPCC Focal Point if you are interested in being nominated.



AS EXPERT REVIEWERS

Two review stages:
Expert Review of the First Order Draft
&
Government and Expert Review of the Second Order Draft

Chapter 1: Cities in the context of climate change: framing of the report

Assessment methodologies ... and considered time frames and spatial scales

Chapter 2: Cities in a changing climate: trends, challenges and opportunities

Past, current and future global and city-specific climate (trends, means, extremes)

Urbanization, urban emissions trends, feedbacks

City-specific risks and their climatic impact-drivers

Data, information, tools accessibility/availability/usability/transparency

Uncertainties, implementation gaps, unprecedented situations

Chapter 3: Actions and solutions to reduce urban risks and emissions

Urban observation and modelling tools for monitoring and evaluation for sectors

Metrics for assessing mitigation and adaptation options

Case studies/best practices/stories

Chapter 4: How to facilitate and accelerate change

New ways of planning under and for uncertainty; the likelihood of tipping points

Providing climate and information services to enable action

Chapter 5: Solutions by city types and regions

Synthesis of solution-relevant information and a collection of case studies

[PDF Version - Outline of Special Report on Cities \(ipcc.ch\)](#) ⁵

Title: Climate Change and Cities

Estimated Launch: Q4 2024 / Q1 2025

Budget: 1.8MEUR, <500kEUR per project over 18 months

Key themes:

- Developing and improving EO-derived products using ESA CCI ECV datasets
- Key deliverable will be manuscript(s) for the IPCC Special Report on Cities
 - Literature Cutoff date estimated to be mid-2026
- Focus on collaborating with end users

Points of Contact @ESA: Sarah Connors and Claire Macintosh

Volume 1. General Guidance

Introduction

Approaches to Data Collection (inc. Spatial distribution and temporal resolution, Measurement techniques, NMVOC speciation, Technologies and Abatement technologies)

Uncertainties

Methodological Choice and Identification of Key Categories (inc. KCA by SLCF species, Issues of co-emitted species in SLCF KCA)

Timeseries consistency (inc. Addressing changes in measurement techniques, technologies, including for abatement)

QA/QC and Verification

Volume 2. Energy Sector

Volume 3. IPPU Sector

Volume 4. AFOLU Sector

Volume 5. Waste Sector

[IPCC-61_decisions-adopted-by-the-Panel.pdf](#)

Held: Bern, Switzerland. 25-28 June 2024.

Organisers: ESA, NASA, World Adaptation Science Programme (WASP), Griffiths University Australia, ISSI.

Focus: The Global Goal on Adaptation (GGA)

“By 2030, all Parties have designed, established and operationalized a system for monitoring, evaluation and learning for their national adaptation efforts and have built the required institutional capacity to fully implement the system.”

- The GGA will establish a list of indicators for understanding climate adaptation.
- The forum discussed
 - what types of adaptation indicators can be best supported by EO
 - knowledge gaps to fill to further enhance EO adaptation R&D.

Output: White paper is now currently being drafted. Aim for release before COP29.

Title: Climate Change and Adaptation

Estimated Launch: Q1 2025

Budget: 1.8MEUR, <1MEUR or <500kEUR per project over 2 years

Key themes:

- Developing and improving EO-derived products for supporting climate adaptation e.g., creating adaptation indicators from EO data
- Using ESA CCI ECV datasets for supporting climate adaptation, e.g., testing case studies to create possible frameworks after success

Points of contact @ESA: Sarah Connors

IPCC:

SR Cities – First review expected Oct-Dec 2025

MR SLCFs – First review expected Jan-Mar 2026

MR CDR/CCS/CCU – Call for authors estimated at Q1-Q2 2025

Publications welcome. See approved outlines for guidance.

ESA ITTs:

Q4 2024 / Q1 2025: Climate Change and Cities

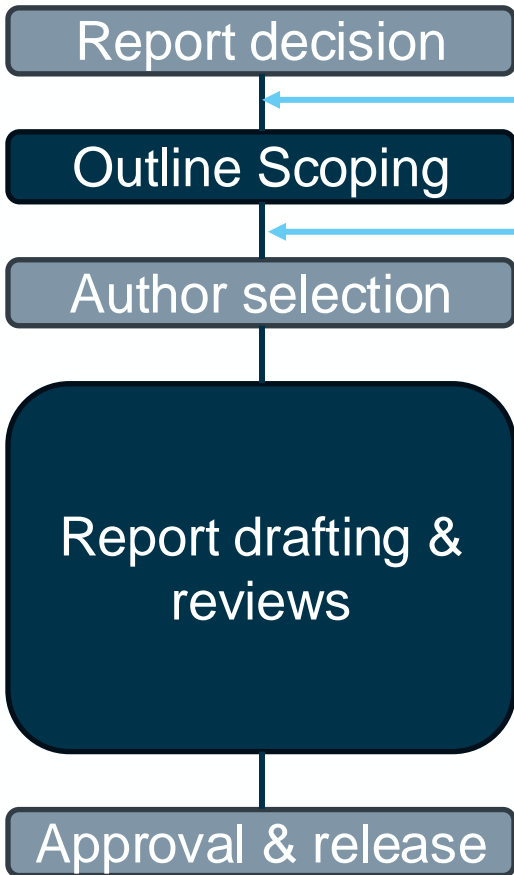
Q1 2025: Adaptation

ESA Climate Office will provide email reminders for key events, we ask for you to keep us updated if you get involved.

The IPCC news webpage will post most announcements: <https://www.ipcc.ch/news/>

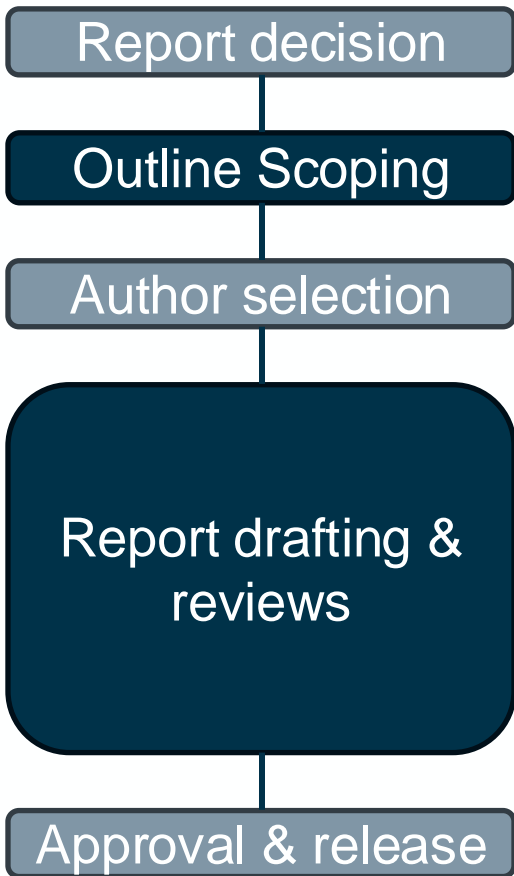
Thank you.

Contact: sarah.connors@esa.int



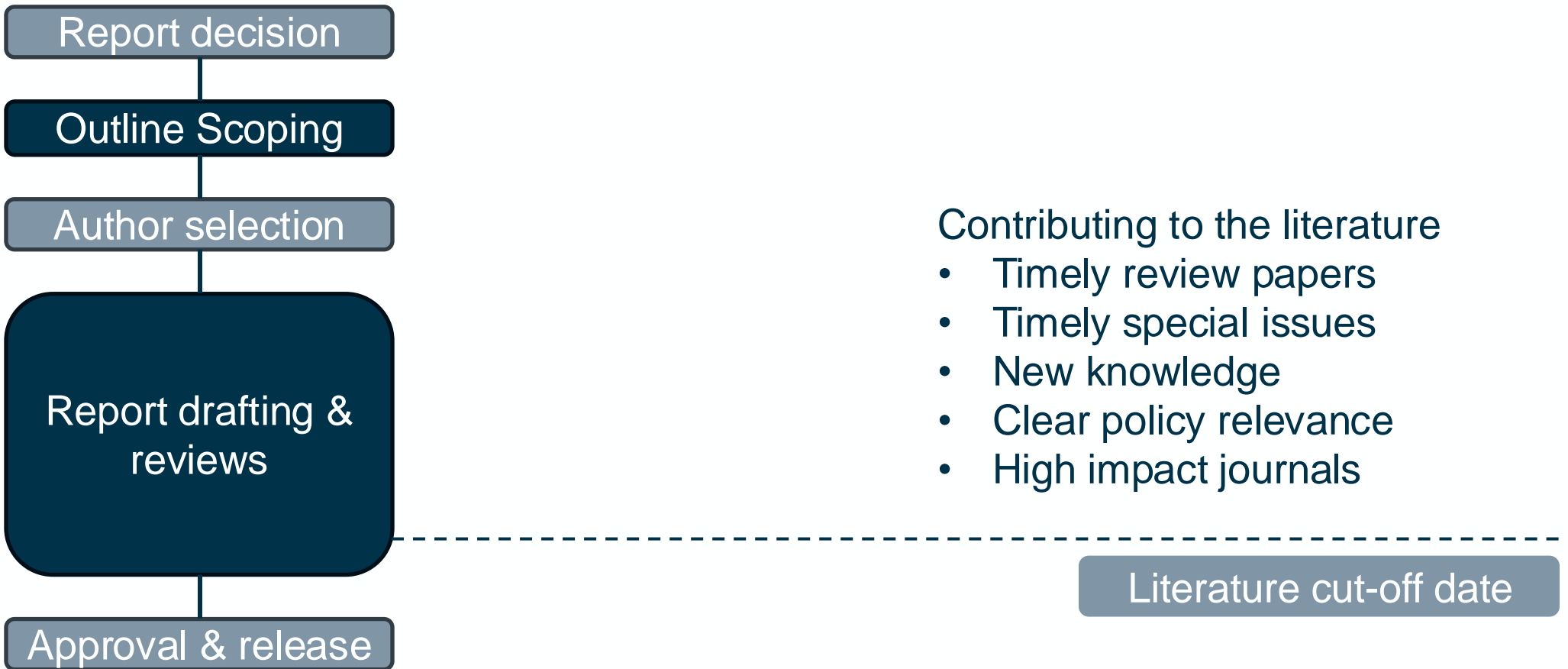
Call for Nominations

- Can be nominated by your country focal points
- Selection on expertise, geographical representation, and gender balance
- Author Roles
 - Coordinating Lead Author
 - Lead Author
 - Review Editor



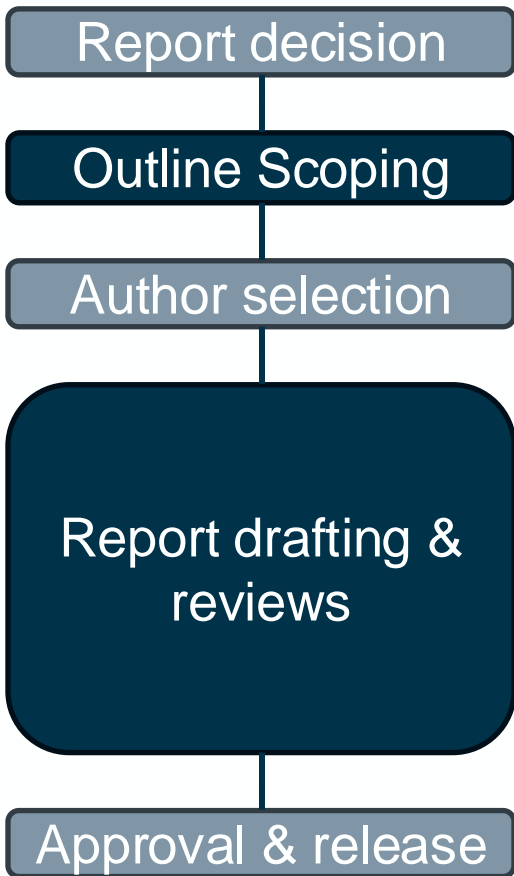
2x Review Periods of the report drafts

- Apply to be an Expert Reviewer
- Listed in the Report Annex of Reviewers
- Some Expert Reviewers are asked to be Contributing Authors
- Review comments are not anonymous!



Contributing to the literature

- Timely review papers
- Timely special issues
- New knowledge
- Clear policy relevance
- High impact journals



Make the most of the reports for your research

- What is new?
- What is missed and why?
- Research gaps and policy needs?
- Future funding opportunities...

Working Group I Co-Chairs

- **Robert Vautard** (France, Institut Pierre-Simon Laplace / IPSL)
- **Xiaoye Zhang** (China, Chinese Academy of Meteorological Sciences / CAMS)

Working Group II Co-Chairs

- **Winston Chow** (Singapore, Singapore Management University's College of Integrative Studies)
- **Bart van den Hurk** (Netherlands, Deltares)

Working Group III Co-Chairs

- **Katherine Calvin** (United States of America, NASA)
- **Joy Jacqueline Pereira** (Malaysia, Universiti Kebangsaan)

IPCC Chair

Jim Skea (United Kingdom, UCL)

