

SR1.5 - Relevant expertise for the Scoping Meeting

Relevant expertise for the Scoping Meeting was diverse, as the proposed Special Report will integrate information and perspectives across the domains of all the three Working Groups of the IPCC. Participants in the meeting had collectively expertise in the following areas:

- Analysis of observed climate system changes related to degree of warming since pre-industrial levels and associated implications
- Climate modeling and projections
- Climate drivers, emission pathways, forcing scenarios, and relationship with the transparency framework
- Climate processes, non-linearities, sensitivity and feedbacks
- Observed and projected extreme events and impacts
- Short and long term impacts of different stabilization levels, including notion of irreversibility
- Detection of impacts and attribution to climate change
- Impact projections by modeling and shared socio-economic pathways
- Human vulnerability and adaptation, including infrastructure, cities and other human settlements
- Risk assessments, reasons for concern
- Risk perception, psychosocial, sociological, economic and anthropological underpinnings of human responses to climate change
- Adaptation/mitigation costs, trade-offs and co-benefits; adverse impacts of human response measures; including emission feedbacks
- Vulnerability and adaptation of natural systems and managed systems (Agriculture, Forestry and other Land Use (AFOLU)) and their services: oceans, coasts, freshwater, land, cryosphere
- Integrated assessment modeling and interpretation including global, regional and national perspectives
- Transformation pathways including emission trends and drivers, transparency in reporting, timing, technology transitions and societal aspects
- Mitigation of energy supply and demand, including cities and other human settlements
- Mitigation in agriculture, food systems, forestry and land use
- Negative emission technologies, including carbon capture, utilization and storage
- Climate change mitigation and sustainable development including co-benefits and risks, equity, poverty eradication and food security
- Policy instruments and international cooperation including technology and finance
- Interdisciplinary and other perspectives providing a holistic view of impacts and mitigation pathways, also considering geoengineering
- Ethics and equity