

## DRAFT TEXT

on

### SBSTA 56 agenda item 8(a) Matters related to science and review Research and systematic observation

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1. The SBSTA noted the importance of this agenda sub-item in providing a space for identifying scientific findings and addressing knowledge gaps relevant to supporting work under the Convention and the Paris Agreement.
2. The SBSTA welcomed the activities and information reported in the statements delivered at the opening plenary of this session by GCOS, the IPCC, WCRP and WMO.<sup>1</sup>
3. The SBSTA welcomed the contributions of Working Groups II<sup>2</sup> and III<sup>3</sup> to the IPCC Sixth Assessment Report (AR6). It expressed its appreciation and gratitude to the IPCC and the scientific community for those contributions. It also expressed its appreciation for the dedication of the IPCC experts in continuing their work during the pandemic. It noted the importance of the contributions in supporting decision-making on climate change.
4. The SBSTA expressed its appreciation to the IPCC and SBSTA Chairs and to the secretariat for organizing the SBSTA–IPCC special events on the contributions of Working Groups II<sup>4</sup> and III<sup>5</sup> to the AR6, held on 6 and 8 June 2022, respectively.
5. The SBSTA also expressed its appreciation to its Chair and to the secretariat for organizing the fourteenth meeting of the research dialogue and associated poster session, held on 9 June 2022, on near-term climate projections and regional modelling, the ocean and cryosphere, carbon dioxide removal, and integrated solutions for adaptation and resilience.<sup>6</sup> It invited its Chair to prepare, with the assistance of the secretariat, a summary report on the meeting, to be made available in advance of SBSTA 57 (November 2022).
6. The SBSTA expressed its appreciation and gratitude to IPCC experts for their contributions to the events and meeting referred to in paragraphs 4–5 above as well as for their support for other relevant events held during this session.<sup>7</sup> It also expressed its appreciation to other experts from research programmes and organizations for their contributions to the fourteenth meeting of the research dialogue, and welcomed the informal exchanges between experts and Parties at the poster session.
7. The SBSTA noted with grave concern the state of the global climate system, especially with regard to the increasing rate and magnitude of impacts and risks of climate change and losses and damages, as well as the limits to adaptation associated with increasing global warming, as identified in the contribution of Working Group II to the AR6 and highlighted at the special event thereon and at the fourteenth meeting of the research dialogue. In this context, it noted the significance of challenges in and barriers to, and the importance of opportunities for, climate-resilient development.

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<sup>1</sup> Available at <https://www4.unfccc.int/sites/submissionsstaging/Pages/Home.aspx> (selected tag: 2021; search: statement).

<sup>2</sup> See <https://www.ipcc.ch/report/sixth-assessment-report-working-group-ii/>.

<sup>3</sup> See <https://www.ipcc.ch/report/sixth-assessment-report-working-group-3/>.

<sup>4</sup> See <https://unfccc.int/event/ar6wgii-special-event>.

<sup>5</sup> See <https://unfccc.int/event/ar6wgiii-special-event>.

<sup>6</sup> See <https://unfccc.int/event/fourteenth-meeting-of-the-research-dialogue>.

<sup>7</sup> Including the IPCC event under the Glasgow–Sharm el-Sheikh work programme on the global goal on adaptation on the contribution of Working Group II to the AR6, the third meeting of the structured expert dialogue under the second periodic review of the long-term global goal, and the first meeting of the technical dialogue under the first global stocktake.

8. The SBSTA noted the mitigation pathways and associated emission reductions necessary to reach global peaking of greenhouse gas emissions as soon as possible in the context of sustainable development and limiting global warming to 1.5 °C, as identified at the SBSTA–IPCC special events referred to in paragraph 4 above. It noted the information reported at the special events that further delaying mitigation limits the options for and increases the costs of adapting to and mitigating climate change, limits opportunities for climate-resilient development and increases the risk of losses and damages and irreversible impacts resulting from climate change.

9. The SBSTA reaffirmed the importance of research for improving modelling capacity, accuracy and development; scenarios; data availability, analysis and integration; climate projections; climate change attribution; and other relevant available scientific information, including on adaptation and mitigation options as well as early warning and disaster risk management.

10. The SBSTA encouraged Parties and relevant organizations to strengthen research and research capacity and to address related needs, as identified at the fourteenth meeting of the research dialogue, particularly in countries with limited research capacity such as developing countries, especially the LDCs and SIDS, and to share scientific information globally, including in relation to understanding:

(a) Near-term climate change and predicting it, providing regional climate modelling projections and providing downscaled data at the regional, subregional and local level;

(b) Climate change projections, including the wide range of climate sensitivity estimates and climate feedback;

(c) Risk, options for risk management, adaptation, loss and damage and limits to adaptation, including in the context of addressing uncertainties and integrated land- and ocean-based adaptation planning and solutions;

(d) Climate change impacts on and risks for the ocean and cryosphere;

(e) The evolution and dynamics of extreme events and information for strengthened early warning systems and climate services;

(f) Climate change attribution;

(g) The potential and risks of carbon dioxide removal options;

(h) The causes and consequences of the vulnerability of natural and human systems, their interactions and associated tipping points, and optimizing the mutual strengthening of the biosphere and human resilience, particularly for the most vulnerable systems;

(i) Systemic approaches for the benefit of humankind, and assessing them;

(j) Climate change impacts on and risks for vulnerable and/or marginalized groups, such as indigenous and local communities, children and youth, and women;

(k) The impacts of the gaps in available finance and technology support for implementing adaptation and mitigation action in developing countries in the context of sustainable development, especially for Parties with insufficient support capacity.

11. The SBSTA invited Parties and relevant organizations to submit via the submission portal<sup>8</sup> by 28 February 2023 views on possible themes for the fifteenth meeting of the research dialogue, to be held in conjunction with SBSTA 58 (June 2023).

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<sup>8</sup> See <https://www4.unfccc.int/sites/submissionsstaging/Pages/Home.aspx>.