

SBSTA Dialogue on development in research activities relevant to the needs of the Convention

Research needs and priorities to support emerging
issues under the UNFCCC: views by Parties

SBSTA 34

AOSIS' CONCERN

- To get the research community to increase the level of research and so enhance the dialogue on matters relating to future temperature increases of 1.5°C or less.
- Copenhagen Accord will examine level of warming the context of a review of the goal of not more than 2° Celsius
- AOSIS considers that there is a full range of issues for deliberation by the research community within the next few years which is of high interest to policymakers generally, and in particular to those in the most vulnerable countries.

ISSUES FOR CONSIDERATION

- The vulnerabilities, risks and impacts that will result from different levels of increased averaged surface temperatures using as reference base/present year, 1.5°C, 2°C, 3°C, 4°C, etc.
- What are the expected scales/magnitudes of these risks, vulnerabilities and impacts associated with increasing levels of increased global warming.
- The Adaptation needs and costs at different levels of increased global warming from present levels, 1.5°C, 2°C, 3°C and so on to the highest levels projected warming.
- Low mitigation scenarios, including *inter alia*, technological and economic feasibility, policy implications for short, medium and longer term and including regional economic implications of mitigation pathways.
- Gaps in the mitigation literature in relation to low levels of warming, including keeping temperatures below 2°C as called for by the Copenhagen record, many warming back to below 1.5°C as fast as possible, low levels of CO₂ concentration including to return CO₂ concentrations below 350 ppm as soon as possible; and how these gaps may be filled.

ISSUES FOR CONSIDERATION

- Advances in knowledge since the fourth assessment report in relation to the effects and consequences of ocean acidification on the marine environment and ecosystems;
- Advances in knowledge in relation to the risks of sea level rise from global warming
- Sea level rise impacts for different levels of sea level rise over time, from present levels up to several metres, resolving these at the finest scale of SLR increments possible.
- Co-benefits of mitigation actions and pathways for sustainable development.
- Gaps in knowledge, scientific uncertainties and possible priorities for further research that could feed in to the IPCC AR5