1. What are the session key findings? What are the new Lesson(s) learned / Scientific progress (since AR5 release, if relevant)?

The concept of “Adaptation Services” was introduced by Sandra Lavorel et al. along with examples from case studies. Adaptation Services are those components of ecosystems that are critical for ecosystem-based adaptation.

In an analysis by Johannes Förster et al. it was found that the majority of certified REDD+ projects take multiple ecosystem services and biodiversity into account. However, there are trade-offs involved: the more ecosystem services are addressed by REDD+ projects, the less carbon emissions from forest loss are avoided. Nevertheless, forests under multifunctional use, e.g. under community-based forest management, have been found to perform better in conserving forests over the long-term than protected areas. Hence it is important to consider long-term community benefits and not only short-term carbon benefits of REDD+ projects.

Julia Kloos et al. presented on the benefits of ecosystem-based Disaster Risk Reduction (DRR) for reducing risks to local communities. Ecosystem-based DRR has been found to incorporate local knowledge and generate multiple co-benefits to local communities. This is important for the long-term success and acceptance of strategies for DRR at local level. Hence ecosystem-based approaches should be considered as an option when assessing strategies for DRR.

2. What are the major knowledge Gaps and Research Needs identified in the session?

Knowledge needs to be generated on the costs and benefits of strategies for ecosystem-based mitigation, adaptation, and Disaster Risk Reduction. Furthermore, it needs to be explored how local knowledge can be better integrated in such strategies in order to generate co-benefits and long-term success.
3. **Did the session discuss/identify promising approaches in the fields of Adaptation and Mitigation, or both?**

   Yes, examples for ecosystem-based approaches were presented and discussed. These included ecosystem-based adaptation, REDD+ and ecosystem-based Disaster Risk Reduction (DRR).

4. **Are there take-home messages from the session?**

   There is a need for mainstreaming ecosystem-based approaches into climate change policies on mitigation and adaptation at the international, national and local level. Ecosystem-based approaches should be considered in the analysis of options for mitigation and adaptation. Ecosystem-based approaches often include local knowledge and can generating multiple benefits to local communities. This can enhance the acceptance and success of mitigation and adaptation measures.

5. **Are there Important Quotes from the session?**

6. **Please include any other remark that you might have.**