

SESSION 3: Climate change of coastal and marine socio-ecosystems: risks, mitigation and adaptation

Coastal and marine socio-ecosystems are subject to numerous natural and anthropogenic hazards. Among them, new stresses induced by climate change could produce unknown social, environmental and economic consequences. Consequently, its resilience needs to be improved by including their adaptation to climate change. Resilience improvement requires a better understanding of the impact of climate change risks, effectiveness of mitigation and adaptation strategies, interdependencies between various socio-economic sectors, and effects of failures on individual sectors as a whole.

This session aims to bring together researchers and practitioners from various disciplines (economics, engineering, law, geography, biology, etc.) in order to present, discuss and exchange information and ideas on modelling, planning and management within these coastal and marine socio-ecosystems subject to a changing climate. Multidisciplinary exchanges aim at identifying areas for further developments and applications as well as proposing global and sustainable adaptation solutions. The following topics are covered in the session:

- (i) Climate vulnerability and risk assessment: methods and case studies,
- (ii) Economics, governance and decision-making of adaptation,
- (iii) Modelling, monitoring and measuring climate change consequences and adaptation,
- (iv) Interdependences between various coastal and marine socio-ecosystems.