Template for the Theme Session proposals

Please use the example below to formulate your Theme Session proposal. Note that Theme Session proposals should:

- Include a title, short description and max three conveners;
- Ensure clear agreement from individuals listed as co-conveners;
- The description for the theme session proposal "What do fish learn in schools?" is a good example for how to structure the description.

Title: What do fish learn in schools? Life cycle diversity within populations, mechanisms and consequences

Conveners: Name (Country), Name (Country), and Name (Country).

Description: Depleted fish stocks, degraded habitats, and uncertainty in forecasts of future ecosystem states emphasize the need to include the notions of resilience and associated life-cycle diversity as objectives for fisheries management. Life-cycle diversity within populations and knowledge transfer between generations are increasingly recognized as factors that can influence population resilience and thus fishery and habitat recovery actions. Concepts explaining life-cycle diversity within populations and its persistence include genetic polymorphism, partial migration, and social transmission of learned migration behaviour. Although life- cycle diversity is increasingly recognized as a pattern common across diverse fish taxa, mechanistic studies and concepts explaining this diversity are nascent. Further, relatively little attention has focused on the consequences of this diversity in particular for population resilience, spatial management strategies and recovery plans.

Across marine and diadromous fishes, papers are welcome on the following topics:

- life cycle diversity within populations, its persistence and change
- conditional strategies leading to partial migration
- social transmission of habitat use
- population genetic structure and polymorphism
- mechanisms for population resilience
- population-level effects of infra-population diversity
- recovery plans accounting for spatial effects
- spatial management strategies accounting for essential habitats.