

Theme Session R

Analytical approaches to using telemetry data to assess marine survival of Diadromous and other migratory fish species

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There has been a technological surge in hardware and software for tracking and monitoring leading to an extensive application of such technologies ranging from local tracking to full extensive ocean migrations. The theme session will provide an opportunity to examine and appraise different approaches to analysing data from these studies which lead to meaningful information on factors affecting the well-being and survival of migrating animals at various points during marine and freshwater migrations.

Topics would include:

- How telemetry information is collected, organized and accessed.
- Models and analyses used to interpret data from electronic ID, positional or data storage tags.
- Integrating information for other telemetry devices bioprobes, wave gliders etc.
- Geolocation techniques from electronic tag detection.
- Estimating array efficiency
- Modelling inter stage survival and uncertainty as the number of observations decline as fish leave a detection arena.
- Models for analysing multiyear, choke point arrays detecting multiple stocks.

What corrections to apply e.g. for missing tags or non-detection.

