

**Session J**  
**Integration of individual based information into fishery and environmental management applications**

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The recent development of satellite, acoustic, archival and other forms of electronic tags has resulted in an increasing wealth of information about the spatio-temporal dynamics of the behaviour of marine fish, mammals and birds, much of it of great relevance to fisheries and environmental managers. However, as with other recent technological advances such as remote sensing and GIS, integrating new information into management tools can be difficult and depends on a coordinated effort between researchers in a number of disciplines. To encourage such cooperative efforts, and to identify how to break down barriers between different disciplines, this theme session will review successful applications of individual based data to management situations. Appropriate contributions might include: 1) modifying survey procedures in the light of new information about movements and behaviour; 2) formulating dynamic spatially explicit management models, for example by estimating the appropriate size of marine protected areas or by regulating international fisheries for highly migratory species; 3) linking individual behaviours to growth and other life-history characteristics; or 4) application of animal-collected data to oceanographic studies. Contributions are not limited to studies considering information from electronic tags but also may include those utilizing novel applications of traditional mark-recovery tagging.

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