

## The ecosystem approach: what's the impact on marine science, science-based advice, and management of marine ecosystems (R)

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**Conveners: Dave Reid (UK), Mark Tasker (UK), Martin Pastoors (ICES), Einar Svendsen (Norway), and Glen Jamieson (PICES)**

During the last years, national authorities, international management bodies, international scientific advisory communities, and national marine research and advisory organizations have adopted the ecosystem approach as a central principle for their activities. It is therefore time to consider if this new approach has had any effect on marine science, advice, and management of marine ecosystems. The approach should encompass both the use of fisheries management measures (e.g. biomass and fishing mortality reference points) to achieve ecosystem targets and the use of ecosystem state and change indicators in the formulation of fisheries management advice (e.g. impact of climate change).

Contributions are invited on:

- tactical or strategic structural changes of organizations or programmes for practical implementation of the ecosystem approach;
- how the ecosystem approach has affected scientific activities and advisory processes;
- the effects of management of marine ecosystems under the ecosystem approach;
- Case studies on the incorporation of ecosystem indicators in the assessment/management process;
- Management scenarios for developing management regimes that are robust to ecosystem change;
- Case studies of the incorporation of ecosystem targets in the setting of fisheries reference points or management measures;
- Theoretical or speculative approaches to the practical implementation of the ecosystem approach (paradigm busting!!!).

**Dave G. Reid**, Fisheries Research Services, Marine Laboratory, P.O. Box 101, 375 Victoria Road, Aberdeen AB11 9DB, UK, e-mail: reiddg@marlab.ac.uk

**Mark Tasker**, JNCC, Dunnet House, 7, Thistle Place, Aberdeen AB10 1UZ, UK, e-mail: mark.tasker@jncc.gov.uk

**Martin Pastoors**, ICES, H. C. Andersens Boulevard 44–46, DK-1553 Copenhagen V, Denmark, e-mail: Martin@ices.dk

**Einar Svendsen**, Institute of Marine Research, P.O. Box 1870 Nordnes, NO-5817 Bergen, Norway, e-mail: einar.svendsen@imr.no

**Glen Jamieson**, Fisheries and Oceans Canada, Pacific Biological Station, 3190 Hammond Bay Road, V9R 5K6 Nanaimo, BC, Canada, e-mail: JamiesonG@pac.dfo-mpo.gc.ca