ERACOM
JOINT MASTER PROGRAM IN ENVIRONMENTAL RISK ASSESSMENT AND COASTAL MANAGEMENT

A4. PROTECTED MARINE AREAS AND ANTHROPOGENIC IMPACTS ON COASTAL ENVIRONMENTS

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Course outline-lectures

1. **Introduction to Marine biodiversity**
   - Marine Biodiversity in the Mediterranean: spatio-temporal variations, interactions with human activities and initiatives for conservation.
   - Sensitive habitats (priority habitats and habitats of Community interest) and endangered species: European and international conservation policies and practices (IUCN Red list).
2. **Introduction to Marine Protected Areas**
   - Marine Spatial Planning and Biodiversity Conservation Priorities in the Mediterranean.
   - Marine Protected Areas as a tool for Ecosystem Conservation and Sustainable Development.
   - Description of case studies.
3. **Introduction to estuarine and coastal lagoon protected areas**
   - Estuarine and coastal lagoon protected areas.
   - Management of estuarine and coastal lagoon protected areas.
   - Fisheries management.
   - Description of case studies.
4. **Anthropogenic impacts on coastal and marine ecosystems**
   - Impacts on coastal and marine ecosystems from fisheries and aquaculture.
   - Ecosystem approach to fisheries and aquaculture-FAO Code of Conduct for Responsible Fisheries.
   - Habitat degradation, restoration and rehabilitation.
   - Artificial reefs.
   - Disturbance, pollution, species invasion and climate change.
   - Ecological Assessment in transitional and coastal waters.
5. **Field trip to a Coastal/Marine Protected Area**

Readings

- Kidd S., Plater A. and Frid C. (eds). The Ecosystem Approach to Marine Planning and Management. London, Earthscan. ISBN 978-1-84971-182-1.
- PapathanasiouV. & A. Zenetos (eds), '*SoHelME, 2005. State of the Hellenic Marine Environment*', H.C.M.R. Publications, 360 pp
- PapakostantinouC., TserpesG. & A. Zenetos (eds), '*State of the Hellenic Fisheries, 2007*', H.C.M.R. Publications, 320 pp
- Staples, D. &Funge-Smith, S. (2009) Ecosystem approach to fisheries and aquaculture: Implementing the FAO Code of Conduct for Responsible Fisheries. FAO Regional Office for Asia and the Pacific, Bangkok, Thailand. RAP Publication 2009/11, 48 pp.

- Seaman W.J. and Sprague L.M. (1991) Artificial reefs for marine and freshwater fisheries. Academic Press Inc, San Diego, California, 285 pp
- Kaiser M.J., Attrill M.J., Jennings S., Thomas D.N., Barnes D.K.A., Brierley A.S., Polunin N.V.C., Raffaelli D.G., Williams P.J. (2010) Marine Ecology, Part Three, Impacts 401-515 pp