

mammals. The main topics discussed are conservation status at the species level, values and uses of biodiversity, threatened and endangered species, and recommendations on their conservation.

*Names of authors arranged alphabetically

Keywords: Biodiversity, endemism, conservation, endangered species

BRIDGES OVER TROUBLED WATERS: CONNECTING REEF SYSTEMS WITH LARVAL DISPERSAL

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Marine resources in the Philippines are in a state of rapid decline. Efforts to stem this decline are being made at different levels. A common management measure is the setting up of protected areas to conserve biodiversity and to ensure a supply of both larvae and adults from spillover effects to traditional fishing grounds. A network of such protected areas can potentially contribute more due to synergistic effects but designing such networks requires a variety of considerations such as larval dispersal trajectories and local hydrodynamics. Surface circulation patterns simulated from hydrodynamic models forced by mesoscale circulation, wind and tides are used to drive Lagrangian models of larval dispersal in selected areas around the Philippines. The larvae are represented as passive, neutrally-buoyant particles and attributes such as release location, age since release and settling location for each particle are stored. These attributes are used to build exchange matrices which show the degree of larval exchange and connectivity between reef areas and can be used in bio-economic models (e.g. FISH-BE) to parameterize larval spillover effects.

Keywords: Marine resources, reef system, larval dispersal, hydrodynamics