

PIANC Report 108 - Dredging and Port Construction around Coral Reefs

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An international working group was established by the PIANC Environmental Committee (Envicom) to develop guidelines for dredging and port construction near coral reefs. The report was released in late 2010. This presentation will give an overview of the development and contents of the report, including:

- Types of impacts associated with dredging and port construction
- Coral responses to impacts
- Development of tolerance limits for corals
- Impact minimisation through planning
- Impact assessment methodology
- Recommended monitoring and management measures

The presentation will focus in particular on the development and application of tolerance limits during the Impact Assessment phase and the Environmental Monitoring and Management phase of projects, and tools for proactive adaptive management of dredging and port construction, including the use of a spill budget and hindcast sediment plume modelling.

Keywords: PIANC, Corals, Dredging, Proactive Adaptive Management