

Table of Contents

Disclaimer

Acronyms

Foreword by the Secretary General

Preface by the Joint Coordinators of the Group of Experts of the Regular Process

Part I Summary

Part II The context of the assessment

Chapter 1: Introduction – Planet, oceans and life

Chapter 2: Mandate, information sources and method of work

Part III Assessment of major ecosystem services from the marine environment (other than provisioning services)

Chapter 3: Scientific understanding of ecosystem services

Chapter 4: The ocean's role in the hydrological cycle

Chapter 5: Sea-Air Interaction

Chapter 6: Primary production, cycling of nutrients, surface layer and plankton

Chapter 7: Calcium carbonate production and contribution to coastal sediments

Chapter 8: Aesthetic, cultural, religious and spiritual ecosystem services derived from the marine environment

Chapter 9: Conclusions on major ecosystem services other than provisioning services

Part IV Assessment of the cross-cutting issues: food security and food safety

Chapter 10: The oceans and seas as sources of food

Chapter 11: Capture fisheries

Chapter 12: Aquaculture

Chapter 13: Fish stock propagation

Chapter 14: Seaweeds

Chapter 15: Social and economic aspects of sea-based food and fisheries

Chapter 16: Synthesis of Part IV: Food security and safety

Part V Assessment of other human activities and the marine environment

Chapter 17: Shipping

Chapter 18: Ports

Chapter 19: Submarine cables and pipelines
Chapter 20: Coastal, riverine and atmospheric inputs from land
Chapter 21: Offshore hydrocarbon industries
Chapter 22: Other marine-based energy industries
Chapter 23: Offshore mining industries
Chapter 24: Solid waste disposal
Chapter 25: Marine debris
Chapter 26: Land-sea physical interaction
Chapter 27: Tourism and recreation
Chapter 28: Desalinization
Chapter 29: Use of marine genetic resources
Chapter 30: Marine scientific research
Chapter 31: Conclusions on other human activities
Chapter 32: Capacity-building in relation to human activities affecting the marine environment

Part VI Assessment of marine biological diversity and habitats

Chapter 33: Introduction
Section A — Overview of marine biological diversity
Chapter 34: Global patterns in marine biodiversity
Chapter 35: Extent of assessment of marine biological diversity
Chapter 36: Overall status of major groups of species and habitats
Chapter 36A: North Atlantic Ocean
Chapter 36B: South Atlantic Ocean
Chapter 36C: North Pacific Ocean
Chapter 36D: South Pacific Ocean
Chapter 36E: Indian Ocean
Chapter 36F: Open ocean deep sea
Chapter 36G: Arctic Ocean
Chapter 36H: Southern Ocean
Section B — Marine ecosystems, species and habitats scientifically identified as threatened, declining or otherwise in need of special attention or protection
I. Marine species
Chapter 37: Marine Mammals
Chapter 38: Seabirds
Chapter 39: Marine Reptiles
Chapter 40: Sharks and other elasmobranchs
Chapter 41: Tunas and billfishes

II. Marine ecosystems and habitats

Chapter 42: Cold-water corals

Chapter 43: Tropical and sub-tropical coral reefs

Chapter 44: Estuaries and deltas

Chapter 45: Hydrothermal vents and cold seeps

Chapter 46: High-latitude ice and the biodiversity dependent on it

Chapter 47: Kelp forests and seagrass meadows

Chapter 48: Mangroves

Chapter 49: Salt Marshes

Chapter 50: Sargasso Sea

Chapter 51: Biological communities on seamounts and other submarine features potentially threatened by disturbance

Section C — Environmental, economic and/or social aspects of the conservation of marine species and habitats and capacity-building needs

Chapter 52: Synthesis of Part VI: Marine biological diversity and habitats

Chapter 53: Capacity-building needs in relation to the status of species and habitats

Part VII Overall assessment

Chapter 54: Overall assessment of human impact on the oceans

Chapter 55: Overall value of the oceans to humans

Glossary

List of Contributors and Commentators