Abbreviations and acronyms

ADB  Asian Development Bank
AIG  Alternative Income Generation
ASEAN  Association of South East Asian Nations
BAPEDAL  Environmental Impact Management Agency
BAPPEDA  Regional Planning Boards
BOD  Biological Oxygen Demand
CBD  Convention on Conservation on Biological Diversity
CI  Conservation International
CITES  Convention on International Trade in Endangered Species
COREMAP  Coral Reef Rehabilitation and Management Project
CPUE  Catch Per Unit Effort
CRIF  Central Research Institute for Fisheries
CSIRO  Commonwealth Scientific & Industrial Research Organisation
DGWRD  Directorate General of Water Resources Development
EEZ  Exclusive Economic Zone
ENSO  El Niño Southern Oscillation
GCRMN  Global Coral Reef Monitoring Network
GNP  Gross National Product
GOI  Government of Indonesia
IOD  Indian Ocean Dipole
IPCC  Intergovernmental Panel on Climate Change
IPM  Integrated Pest Management Program
IUCN  World Conservation Union
IUUF  Illegal, Unreported, and Unregulated Fisheries
KNP  Komodo National Park
LIPI  Indonesian Institute of Science
LME  Large Marine Ecosystem
MAC  Marine Aquarium Council
MAREMAP  Marine Resources Evaluation, Management and Planning Project
MARPOL  International Convention on the Protection of Pollution from Ships
MCREP  Marine and Coastal Resources Management Project
MoU  Memorandum of Understanding
MPA  Marine Protected Area
MREP  Marine Resources Evaluation and Planning Project
MSY  Maximum Sustainable Yield
NGO  Non Governmental Organisation
PEMSEA  Partnership in Environmental Management for the Seas of East Asia
PKA  Directorate General for Forestry Protection and Nature Conservation
PROKASIH  Program Kali Bersih (Clean River Programme)
SARS  Severe Acute Respiratory Syndrome
SPM  Suspended Particulate Matter
SST  Sea Surface Temperature
TNC  The Nature Conservancy
ULCC  Ultra Large Crude Carriers
UNDP  United Nations Development Programme
UNESCO  United Nations Educational, Scientific and Cultural Organization
UNFCCC  United Nations Framework Convention on Climate Change
WHO  World Health Organization
WRI  World Resources Institute
WWF  World Wildlife Fund
List of figures

Figure 1  Boundaries of the Indonesian Seas region................................................................. 14
Figure 2  Reefs at risk in the Indonesian Seas region............................................................... 18
Figure 3  Population density in the Indonesian Seas region...................................................... 20
Figure 4  Locals processing copra, Anambas & Natuna Archipelago, Indonesia.......................... 21
Figure 5  Reefs at risk due to sedimentation............................................................. 32
Figure 6  Deforestation, Jawa, from October 19, 2002................................................................. 33
Figure 7  Waste in a local canal, Jakarta, Indonesia................................................................. 34
Figure 8  Reefs at risk due to marine pollution.............................................................. 36
Figure 9  Retaining wall made from coral.......................................................... 42
Figure 10  Reefs at risk due to alteration of land cover...................................................... 44
Figure 11  Catches of various fish resources in the Indonesian Seas........................................ 48
Figure 12  Reefs at risk threat analysis for overfishing....................................................... 53
Figure 13  Fish for sale at local market, Unjung Pandang, Sulawesi................................. 54
Figure 14  Sea surface temperature anomalies during 1998 in the Indonesian Seas region..... 57
Figure 15  Causal chain diagram illustrating the causal links for destructive fishing practices. 63
Figure 16  Live fish holding pens, Anambas & Natuna Archipelago, Indonesia..................... 64
Figure 17  Live reef fish, including large groupers Epinephelus and Plectropomus spp. for sale in restaurants, Hong Kong.............................................................. 65
Figure 18  Live reef fish, including Barramundi and Cromileptes altivelis for sale in restaurants, Hong Kong.............................................................. 65
Figure 19  Live reef fish, including Maori wrasse Chelinus undulatus for sale in restaurants, Hong Kong.............................................................. 65
Figure 20  Collecting fish from holding cages for live fish market, Kapasang Island, Sulawesi. 70
Figure 21  Local boat, Kapasang Island, Sulawesi................................................................. 73

List of tables

Table 1  Diversity of selected groups of marine organisms in Indonesia........................................... 19
Table 2  Socio-economic indicators for Indonesia................................................................. 21
Table 3  Scoring table for Sunda, Wallacea and Sahul sub-systems........................................ 26
Table 4  Overview of environmental impacts of relevance to Indonesia’s marine mammals........... 38
Table 5  Coral cover of reefs in Indonesia................................................................. 39
Table 6  Status of the coral reefs in Indonesia using the 1999 LIPI data........................................ 39
Table 7  Coral reef degradation in Indonesia........................................................................ 39
Table 8  Terrestrial and marine conservation areas in Indonesia.............................................. 46
Table 9  Live fish exports for Indonesia 1996-1998................................................................ 51

List of boxes

Box 1  Restoration of coral reefs following blast fishing......................................................... 40
Box 2  Mangrove clearance and development for aquaculture ponds........................................ 40
Box 3  Remedial actions for mangrove loss in the Mahakam Delta........................................... 47
Box 4  Challenges for effective management of an expanding protected network.................... 47
Box 5  The importance of coral reef fisheries in Indonesia....................................................... 49
Box 6  Impacts and threats to marine mammals......................................................................... 50
Box 7  Destructive fishing methods in Indonesia.......................................................................... 51
Box 8  Impacts and threats to marine mammals.......................................................................... 52
Box 9  Characteristics of eastern Indonesia which affect the scale and response of climate change ........................................................................................................... 56
Box 10  The scenario for climate change in Indonesia............................................................... 58
Box 11  Benefits of a well managed Marine Protected Area in Komodo National Park.................. 71