

1. Record Nr.	UNINA9910953852403321
Titolo	Ecology / / Ecology Panel, Committee to Review the Outer Continental Shelf Environmental Studies Program, Board on Environmental Studies and Toxicology, Commission on Geosciences, Environment, and Resources, National Research Council
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1992
ISBN	9786610203338 9781280203336 1280203331 9780309537766 0309537762 9780585149578 0585149577
Edizione	[1st ed.]
Descrizione fisica	1 online resource (162 p.)
Collana	Assessment of the U.S. Outer Continental Shelf Environmental Studies Program ; ; II
Disciplina	333.8/2314/0973
Soggetti	Continental shelf - United States Environmental impact analysis - United States Offshore oil industry - Environmental aspects - United States Oil and gas leases - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical reference.
Nota di contenuto	Assessment of the U.S. Outer Continental Shelf Environmental Studies Program -- Copyright -- Preface -- Contents -- Executive Summary -- THE PRESENT STUDY -- MARINE BIRDS, MAMMALS, AND TURTLES -- BENTHIC PROCESSES -- FISHERIES AND ECOSYSTEMS -- GENERAL CONCLUSIONS -- GENERAL RECOMMENDATIONS -- 1 Introduction -- OUTER CONTINENTAL SHELF ACTIVITIES -- Magnitude and Management -- Environmental Concerns -- THE ENVIRONMENTAL STUDIES PROGRAM -- Mandate -- History of the Environmental Studies Program -- Development of a Studies Plan -- Implementation of Studies According to Lease-Sale Schedules -- MMS Support of Ecological Studies -- THE PRESENT STUDY AND REPORT -- 2 Principles of

Assessment -- FOCUS AND GEOGRAPHIC EXTENT OF STUDIES -- ENVIRONMENTAL VARIABILITY: DETECTING THE EFFECTS OF OCS ACTIVITIES -- Testing Hypotheses -- Different Approaches for Different Species Groups -- STUDIES OF MARINE BIRDS, MAMMALS, TURTLES, AND ENDANGERED SPECIES -- Selection of Species for Study -- Distribution and Abundance -- Ecological Processes -- Relationship of Distribution to Oceanic Features -- Trophic Relationships -- Population Processes -- Community and Ecosystem Processes -- Specific OCS Impacts -- Effects of External Oiling -- Toxic Effects of Ingested Oil and Other Physiological Effects -- Trophic Effects -- Disturbance -- Other Potential Effects -- CHARACTERIZATION OF BENTHIC ENVIRONMENTS -- FISHERIES -- ECOSYSTEM MODELING -- 3 Analysis of the Program -- BIRDS -- Allocation of Program Effort -- Assessment of Results -- Selection of Species and Locations for Study -- Colony Inventories -- At-Sea Inventories -- Shoreline Habitat Inventories -- Colony Process Studies -- At-Sea Process Studies -- Effects Studies, Modeling, and Estimation of Risk -- Gaps in the Available Data -- Colony Inventories -- At-Sea Inventories -- Shoreline Habitat Inventories. Colony Process Studies -- At-Sea Process Studies -- Shoreline and Nearshore Process Studies -- Effects -- Models and Estimation of Risk -- Recommendations for Future Research -- Colony Inventories -- At-Sea Inventories -- Shoreline Habitat Inventories -- Colony Process Studies -- At-Sea Process Studies -- Shoreline Process Studies -- Effects and Risk Studies -- Modeling Studies -- Coordination, Cooperation, and Organization -- SEA TURTLES -- MARINE MAMMALS -- Introduction -- Environmental Studies Program and Results -- Inventory -- Effects -- Ecological Processes -- Gaps in Available Data -- Inventory -- Effects -- Ecological Processes -- Conclusions and Recommendations -- Inventory -- Effects -- Ecological Processes -- Data Management and Accessibility -- BENTHIC STUDIES -- Accomplishments of the Environmental Studies Program -- Shortcomings of the Environmental Studies Program -- Design of Benthic Monitoring Programs -- Understanding Benthic Processes -- Biogeochemical Concerns -- Statistical Analyses -- Biological Hierarchy -- Other Impacts -- Summary of Monitoring Design Requirements -- FISHERIES -- Information Needed -- ECOSYSTEM MODELING -- Biological Models Developed with MMS Funding -- Circulation Models -- Population Risk Models -- Ecosystem and Oil-Flux Models -- Fishery Models -- Drilling Discharges -- Evaluation of MMS Modeling Efforts -- 4 Conclusions and Recommendations -- CONCLUSIONS -- RECOMMENDATIONS -- References -- Appendix A Commission on Physical Sciences, Mathematics, and Resources -- Appendix B Ecology Study Contracts Awarded by Minerals Management Service, 1973-1989.

Sommario/riassunto

Assessment of the U.S. Outer Continental Shelf Environmental Studies Program reviews the ecological studies done by the Environmental Studies Program of the Minerals Management Service. This program, which has spent \$10 million a year on ecological studies in recent years, is designed to provide information to predict and manage the environmental effects of outer continental shelf oil and gas activities. The book considers studies on marine mammals and endangered species, birds, benthic organisms, fisheries, and marine ecosystems and makes recommendations for future studies.