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Coastal Ecological Systems of the United States



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H. T. Odum B. J. Copeland E. A. McMahan

The Conservation Foundation

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The Conservation Foundation is a non-profit organization dedicated to encouraging human conduct to sustain and enrich life on earth. Since its founding in 1948, it has attempted to provide intellectual leadership in the cause of wise management of the earth's resources. It is now focusing increasing attention on one of the critical issues of the day—how to use wisely that most basic resource, the land itself.

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Preface

Coastal Ecological Systems of the United States was originally prepared for the Federal Water Pollution Control Administration as part of the National Estuarine Pollution Survey conducted in 1968 and 1969. It was the product of a group of scientists led by staff members of the University of North Carolina's Institute of Marine Sciences. Its four volumes include a comprehensive survey of scientific information through 1969, as well as a new system for the classification of coastal ecosystems. The manuscript was submitted to the U.S. Environmental Protection Agency (which absorbed the FWPCA in 1970), but was not published.

The Conservation Foundation is now able to publish this work because of an assistance grant (Grant No. 043-158-68) provided by the National Oceanic and Atmospheric Administration's Office of Coastal Environment, which is responsible for implementing the Coastal Zone Management Act of 1972. The purpose of the grant was to assist the Conservation Foundation in preparing an amended version of this comprehensive work for NOAA's program use. Upon completion of that activity, the Conservation Foundation agreed to make this material available to a wider audience by reproducing the amended manuscript in the most inexpensive way possible.

Those whose personal efforts merit recognition are Robert W. Knecht, director, and Edward T. LaRoe, coastal ecologist, of the Office of Coastal Environment, who foresaw the relevance of this work to the practical needs of coastal zone management; Eugene T. Jensen and A. L. Wastler, of the U.S. Environmental Protection Agency, who arranged for the original study; and John Clark and Laura O'Sullivan of the Conservation Foundation, who, respectively, persuaded their organization to publish this massive work and attended to the myriad details of bringing it into print.

The Editors:

H. T. Odum,
University of Florida
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Part VI

BIBLIOGRAPHY OF COASTAL ECOLOGICAL SYSTEMS

Joyce Shields and Ann Rogers
University of North Carolina

The references that follow concern the marine ecological systems of the United States. Using the classification of coastal systems set up in Part II, we have indicated the contribution of the references by annotating the entries with systems and states involved in the article. A large proportion of the papers listed provide important material about particular representative examples and case histories of natural and disturbed systems. The identification of a paper by system type allows the reader to refer to the chapter or chapters where the reference is appropriate.

As much as possible of the so called "gray literature" (mimeographed reports, leaflets, and anonymous documents of agencies) has been included. This literature contains some of the most valuable and least distributed information on estuaries. In the absence of a personal author, these entries are listed in the bibliography under the agency name. Bibliographic notations conform to those of the Style Manual, 2nd edition, American Institute of Biological Science.

The bibliography is not complete, nor free of error, but it does attempt to provide some entrance into reference sources of all types and all states, with a special effort to include references since 1960. A worthwhile project for the future would be to provide detailed bibliographies pertinent to each ecosystem. All of the references cited in the chapters of the study are included in the bibliography, but there are, in addition, many other references which increase its usefulness as a general entrance into the ecology literature.

At the end of the bibliography is a special section. BIBLIOGRAPHY OF COASTAL BIBLIOGRAPHIES, which provides special groupings as well as many titles not included in the main bibliography.

Table 1: A classification of coastal ecological systems and subsystems according to characteristic energy sources.

Category		Name of type	Characteristic energy source or stress
A. Naturally stressed systems of wide latitudinal range			High Stress Energies
	A-1.	Rocky sea fronts and intertidal rocks	breaking waves
	A-2.	High energy beaches	breaking waves
	A-3.	High velocity surfaces	strong tidal currents
	A-4.	Oscillating temperature channels	shocks of extreme temperature range
	A-5.	Sedimentary deltas	High rate of sedimentation
	A-6.	Hypersaline lagoons	briny salinities
	A-7.	Blue-green algal mats	temperature variation and low nighttime oxygen
B. Natural tropical ecosystems of high diversity			Light and Little Stress
	B-1.	Mangroves	light and tide
	B-2.	Coral Reefs	light and current
	B-3.	Tropical Meadows	light and current
	B-4.	Tropical inshore plankton	organic supplements
	B-5.	Blue water coasts	light and low nutrient
C. Natural temperate ecosystems with seasonal programming			Sharp seasonal programming and migrant stocks
	C-1.	Tidepools	spray in rocks, winter cold
	C-2.	Bird and Mammal Islands	bird and mammal colonies

Table 1 (cont'd.)

Category	Name of type	Characteristic energy source or stress
	C-3. Landlocked sea waters	little tide, migrations
	C-4. Marshes	lightly tidal regimes and winter cold
	C-5. Oyster reefs	current and tide
	C-6. Worm and clam flats	waves and current, intermittent flow
	C-7A. Temperate grass flats	light and current
	C-7B. Shallow Salt Ponds	small waves; light energy concentrated in shallow zone
	C-8. Oligohaline systems	saltwater shock zone, winter cold
	C-9. Medium salinity plankton estuary	mixing intermediate salinities with some stratification
	C-10. Sheltered and stratified estuary	geomorphological isolation by sill
	C-11. Kelp beds	swells, light and high salinity
	C-12A. Neutral embayments	shelfwaters at the shore
	C-12B. Coastal Plankton	eddies of larger oceanic systems
D. Natural Arctic Ecosystems with ice stress		Winter ice, sharp migrations and seasonal programming
	D-1. Glacial fiords	icebergs
	D-2. Turbid outwash fiords	outflow of turbid ice-water lens
	D-3A. Ice stressed coasts	winter exposure to freezing

Table 1 (cont'd.)

Category	Name of type	Characteristic energy source or stress
	D-3B. Inshore Arctic ecosystems with ice stress	ice, low light
	D-4. Sea ice and under-ice plankton	low light
E. Emerging new systems associated with man		New but characteristic man-made energy sources and/or stresses
	E-1. Sewage waste	organic and inorganic enrichment
	E-2. Seafood wastes	organic and inorganic enrichment
	E-3. Pesticides	an organic poison
	E-4. Dredging spoil	heavy sedimentation by man
	E-5. Impoundment	blocking of current
	E-6. Thermal pollution	high and variable temperature discharges
	E-7. Pulp mill waste	wastes of wood processing
	E-8. Sugar cane waste	organics, fibers, soils of sugar industry wastes
	E-9. Phosphate wastes	wastes of phosphate mining
	E-10. Acid waters	release or generation of low pH
	E-11. Oil shores	petroleum spills
	E-12. Piling	treated wood substrates
	E-13. Salina	brine complex of salt manufacture
	E-14. Brine pollution	stress of high salt wastes and odd element ratios

Table 1 (cont'd.)

Category	Name of type	Characteristic energy source or stress
	E-15. Petrochemicals	refinery and petrochemical manufacturing wastes
	E-16. Radioactive stress	radioactivity
	E-17. Multiple stress	alternating stress of many kinds of wastes in drifting patches
	E-18. Artificial reef	strong currents
F. Migrating subsystems that organize areas		Some energies taxed from each system

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