DOCUMENTS RELATED TO MANAGEMENT OF THE COASTAL ZONE: AN ANNOTATED BIBLIOGRAPHY

by

Beverly L. Laird
Rosemary Green
Maurice P. Lynch
and
William J. Hargis, Jr.

Special Report No. 40
in Applied Marine Science and
Ocean Engineering of the
VIRGINIA INSTITUTE OF MARINE SCIENCE
Gloucester Point, Virginia 23062

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William J. Hargis, Jr.
Director
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INTRODUCTION

The coastal regions of the world have historically provided the major loci of man's interaction with the sea and the termini of man's contact with other men from distant areas. As man's influence on his environment increases along with his growth in numbers, societal complexity, and technological advancement, it is only natural that the effects of this influence are strongly felt in coastal regions.

We have compiled an annotated bibliography of studies of management, economic, sociological, and legal problems of the coastal zone to assist coastal zone administrators, managers, and scientists in their efforts to insure that developments in this important region do not result in irreversible detrimental effects. Many of the studies listed in this bibliography are not readily available as part of the natural or social science literature, but contain much pertinent information.* Surely many possible references have escaped our attention. Later editions should be more complete. We hope that persons aware of such materials will either forward copies to us or bring them to our attention for use in subsequent editions. We have not included non-management reports which deal solely with resources or environmental conditions of a given area, because access to this information is possible from other sources. We have included, however, where available and known to us, compendia describing research in the coastal zone.

Many different attempts have been made to develop single, all-encompassing definitions of the Coastal Zone, but no clear-cut definition which is both mutually inclusive of all geographical, geological, or political differences and exclusive of the same factors which apply strictly to land areas or the high seas has arisen. For convenience, in developing this bibliography, we have used a broad definition which places the seaward boundary of the Coastal Zone at the 100 fathom contour, the inward water boundary as the upper limit of ocean tides, while the landward limit is the inward limit to which direct effects of adjacent land masses could be detected. Included are all wetlands, shorelines, shallows, other closely adjacent land masses, bottoms, waters, human and natural resources, and human and natural processes and activities contained in the area. The Great Lakes are encompassed along with the shorelines of the tidal rivers, lagoons, and estuaries, and the beaches, palisades, and promontories of the coasts of the open ocean.

We hope that this work will assist in implementation and operation of the recently adopted Coastal Zone Management Act, PL 92-583. As indicated above, this annotated bibliography will be augmented by later editions as required.

*Microfiche copies of non-copyrighted articles are available for a small handling fee from Mr. John B. Pleasants, Marine Environment and Resources Research Management System (MERRMS), Virginia Institute of Marine Science, Gloucester Point, Virginia 23062, Phone 804-642-2111 Ext. 96.
ANNOTATED BIBLIOGRAPHY


Keywords: education, interagency relations, national coastal zone*, programs


Keywords: conferences, conflicts, fisheries, legal aspects, mapping, mining, needs, ownership, policy


Keywords: conferences, conflicts, fisheries, international seas*, jurisdiction, legal aspects, mining, navigation, technology


Keywords: demands, fisheries, international seas*, legal aspects, multiple use, organization, problems


Keywords: boundaries, conferences, defense, fisheries, jurisdiction, legal aspects, national coastal zone*, policy, political aspects, public use

Keywords: boundaries, development, fisheries, international seas*, legal aspects, problems, programs


Keywords: fisheries, international seas*, jurisdiction, legal aspects, mineral resources, needs, problems


Keywords: boundaries, conflicts, fisheries, legal aspects, mineral resources, multiple use, needs, problems


Keywords: conservation, economic aspects, international seas*, legal aspects, sociological aspects


Keywords: conferences, mapping, national coastal zone*


Keywords: legal aspects, multiple use, problems


Keywords: coordination, national coastal zone*, planning, programs

Keywords: industrial operations, international coasts*, legal aspects, national coastal zone*


Keywords: power plants, preservation, programs, wetlands, zoning


Keywords: Atlantic Coast*, citizen participation, commercial use, conferences, estuaries, inventory, multiple use, planning, preservation, recreation, transportation

Keywords: California*, legal aspects, planning


Keywords: agriculture, commercial fisheries, fisheries, land use, Texas*


Keywords: development, economic aspects, national coastal zone*


Keywords: boundaries, legal aspects, national coastal zone*, offshore oceans


Keywords: islands, New York*, planning, protection, research


Keywords: economic aspects, land use, planning, recreation, sociological aspects, Virginia*, zoning

Keywords: construction, economic aspects, recreation, rivers, Virginia*, water quality, water supply


Keywords: Chesapeake Bay*, Maryland*, planning, research, Virginia*


Keywords: conflicts, cooperation, international coasts*, legal aspects, national coastal zone*, policy


Keywords: economic aspects, land use, Puget Sound*, resource use, Washington*, water resources


Keywords: costs, development, planning, programs, public participation, water resources


Keywords: decision making, economic aspects, floods, planning, projects, public policy, resource use, sociological aspects

Keywords: boundaries, legal aspects, ownership, Virginia*


Keywords: development, Eastern Shore*, Virginia*


Keywords: historical aspects, legal aspects, national coastal zone*, planning, power plants, preservation, programs, regulations, research, wetlands


Keywords: bays, biological aspects, Chesapeake Bay*, commercial fisheries, coordination, demands, disposal, estuaries, legal aspects, Maryland*, multiple use, planning, pollution (thermal), power plants, recreation, regulation, research, resource use, Virginia*


Keywords: California*, conflicts, conservation, goals, multiple use, national coastal zone*, needs, planning, sociological aspects, technology, transportation


Keywords: assessment, legislation, protection, Virginia*, wetlands

Keywords: costs, economic aspects, national coastal zone*, ownership, public policy, research, sociological aspects


Keywords: Pennsylvania*, recreation


Keywords: assessment, biological aspects, commercial use, conservation, development, economic aspects, geological aspects, historical aspects, islands, land use, needs, ownership, planning, pollution, preservation, recreation, resource use, shorelines, transportation, Virginia*, wildlife


Keywords: compacts, coordination, legislation, planning


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Keywords: economic aspects, navigation, recreation, water resources, wildlife

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Keywords: California*, planning, preservation, recreation, resource use


Keywords: California*, conservation, development, economic aspects, historical aspects, interagency relations, personnel, planning, policy, projects


Keywords: California*, legislation, preservation, public use


Keywords: agriculture, biological aspects, boating, California*, estuaries, historical aspects, interagency relations, legal aspects, navigation, pollution, quality standards, recreation, wildlife


Keywords: bays, biological aspects, California*, conservation, disposal, fisheries, inventory, problems, programs, research, San Francisco Bay*, wastes, water quality

Keywords: California*, planning, resource use


Keywords: California*, economic aspects, industrial operations, legal aspects, needs, public policy, Puget Sound*, research, Washington*, water quality, water resources


Keywords: development, economic aspects, water resources


Keywords: construction, development, recreation, resource use, wetlands, wildlife


Keywords: New York*, planning, problems, programs, research, resource use


Keywords: needs, New York*, planning, priorities, research

Keywords: assessment, estuaries, inventory, land use, water resources


Keywords: agriculture, aquaculture, commerce, commercial fisheries, conservation, costs, development, economic aspects, education, estuaries, hunting, industrial development, North Carolina*, ownership, planning, programs, recreation, research, resource use, sport fisheries, transportation, wastes, water resources, wildlife


Keywords: coordination, legal aspects, legislation, programs


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Keywords: coordination, defense, land use, national coastal zone*, recreation, resource use, transportation


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Keywords: economic aspects, enforcement, legal aspects, multiple use, national coastal zone*, political aspects, preservation, private use, sociological aspects, water quality


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Keywords: Great Britain*, planning, programs


Keywords: Alaska*, legal aspects, mineral resources, offshore oceans, Washington*


Keywords: Chesapeake Bay*, Maryland*, programs, projects, research

Keywords: conflicts, economic aspects, legal aspects, Puget Sound*, water quality


Keywords: assessment, bays, commercial fisheries, economic aspects, estuaries, Massachusetts*, ownership, resource use, sport fisheries

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Keywords: conflicts, development, multiple use, planning, recreation, zoning


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Keywords: costs, demands, development, economic aspects, national coastal zone*, power plants, problems


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Keywords: bibliographies, Oregon*, research


Keywords: estuaries, national coastal zone*, projects, research


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Keywords: estuaries, multiple use, national coastal zone*, planning, pollution


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Keywords: assessment, commercial fisheries, economic aspects, Massachusetts*, ownership, resource use, rivers, sport fisheries


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Keywords: coordination, Florida*, land use, mapping, ownership


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Keywords: Connecticut*, industrial operations, legislation, wastes

Keywords: historical aspects, marshes, New Hampshire*, planning


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Keywords: conferences, citizen participation, competitive use, development, New England*, recreation


Keywords: decision-making, Great Lakes*, pollution, planning, projects, water quality


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Keywords: conferences, coordination, needs, planning, programs, research


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Keywords: aquaculture, conservation, development, facilities,
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Keywords: commercial fisheries, development, disposal, facilities, industrial development, legal aspects, national coastal zone*, pollution, preservation, programs, recreation, research

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Keywords: assessment, commercial fisheries, economic aspects, harbors, Massachusetts*, ownership, resource use, rivers, sport fisheries


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Keywords: legal aspects, pollution


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Keywords: biological aspects, Maryland*, pollution


Keywords: bays, Chesapeake Bay*, conferences, estuaries, fisheries, industrial operations


Keywords: boundaries, legal aspects, Maryland*, uses, wetlands

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Keywords: development, economic aspects, Maryland*, recreation


Keywords: bays, boating, Chesapeake Bay*, citizen participation, commercial fisheries, conferences, disposal, economic aspects, education, historical aspects, hunting, Maryland*, navigation, pollution, programs, recreation, research, transportation, uses, Virginia*, wastes

Keywords: disposal, dumping, economic aspects, national coastal zone*, wastes


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Keywords: conservation, development, dumping, economic aspects, islands, problems, programs, resource use, technology, Virgin Islands*


Keywords: assessments, inventory, multiple use, New York*, research


Keywords: disposal, New York*, water supply

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Keywords: conflicts, economic aspects, legal aspects, legislation, planning, pollution, projects, recreation, water quality


Keywords: Michigan*, planning, water resources


Keywords: Chesapeake Bay*, planning

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Keywords: commercial use, economic aspects, enforcement, jurisdiction, legal aspects, modeling, navigation, pollution (thermal), quality standards, recreation, sociological aspects, Virginia*, wastes, water quality


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Keywords: facilities, needs, planning, priorities, problems, technology

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N6. (cont'd) national coastal zone*, programs, resource use, technology, transportation, uses


Keywords: priorities, programs, research, wastes


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Keywords: inventory, New Jersey*, planning, recreation


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Keywords: defense, disposal, dumping, Virginia*


Keywords: assessment, economic aspects, industrial development, programs, research, rivers, Virginia*


Keywords: bibliographies, decision making, inventory, needs, planning, research


Keywords: citizen participation, hearings (public), legal aspects, national coastal zone*, programs, wetlands

Keywords: coastal plains, development, estuaries, facilities, land use, Maryland*, Pennsylvania*, planning, Potomac River*, recreation, resource use, rivers, transportation, Virginia*, water quality


Keywords: bays, Chesapeake Bay*, development, dumping, estuaries, fisheries, historical aspects, legal aspects, legislation, Maryland*, regulations, shorelines, Virginia*, water quality


Keywords: estuaries, Florida*, preservation


Keywords: historical aspects, sociological aspects, Texas*

Keywords: biological aspects, Chesapeake Bay*, fisheries, industrial operations, Maryland*, policy, Virginia*

Keywords: legal aspects, multiple use, national coastal zone*, public policy


Keywords: conservation, disposal, legal aspects, multiple use, problems


Keywords: facilities, Maine*, personnel, research


Keywords: commerce, conferences, conflicts, conservation, coordination, development, disposal, jurisdiction, land use, legal aspects, national coastal zone*, planning, policy, pollution, problems, programs, recreation, research, transportation, uses, wastes


Keywords: conservation, economic aspects, planning, preservation, programs, recreation, resource use, Rhode Island*, sociological aspects


Keywords: economic aspects, resource use

R7. (cont’d)
Keywords: conferences, education, national coastal zone*, research

Keywords: conferences, economic aspects, geological aspects, industrial operations, mineral resources, national coastal zone*, offshore oceans, policy, problems, resource use, technology

Keywords: conferences, education, industrial development, problems, programs, public use, Rhode Island*

Keywords: estuaries, legal aspects, navigation, North Carolina*, ownership, resource use

Keywords: construction, Chesapeake Bay*, Delaware*, Delaware Bay*, economic aspects

Keywords: development, disposal, planning, Virginia*

Keywords: development, planning, Virginia*

Keywords: development, economic aspects, land use, national coastal zone*, planning, policy, political aspects, pollution, wastes, water quality, water resources, water supply, zoning


Keywords: California*, goals, interagency relations, legislation, planning


Keywords: economic aspects, fisheries, industrial operations, land use, New England*, transportation


Keywords: Alabama*, boundaries, development, estuaries, fisheries, industrial operations, marshes, research, wastes

Keywords: bays, conservation, development, economic aspects, mapping, marshes, needs, planning, policy, pollution, port development, public access, recreation, research, resource use, San Francisco Bay*, shorelines, transportation, uses, wildlife


Keywords: education, legal aspects, legislation, Massachusetts*, political aspects, protection


Keywords: economic aspects, Great Lakes*, ports, Wisconsin*


Keywords: legal aspects, North Carolina*, ownership


Keywords: historical aspects, Virginia*, wetlands


Keywords: boundaries, historical aspects, jurisdiction, land use, legal aspects, mapping, marshes, national coastal zone*, ownership, programs, shorelines

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Keywords: legal aspects, Virginia*


Keywords: Chesapeake Bay*, estuaries, Maryland*, planning, pollution, Virginia*, wetlands


Keywords: California*, Hawaii*, legislation, mining, Oregon*


Keywords: development, disposal, inventory, national coastal zone*, planning, preservation, public use, recreation, wetlands


Keywords: planning, programs, water resources


Keywords: economic aspects, Texas*


Keywords: cooperation, coordination, decision making, economic aspects, legal aspects, multiple use, planning, political aspects, sociological aspects, water resources

Keywords: disposal, Massachusetts*, planning, recreation, rivers, sociological aspects


Keywords: assessment, islands, needs, New York*


Keywords: California*, conflicts, multiple use, resource use


Keywords: estuaries, fisheries, industrial development, jurisdiction, navigation, ownership, pollution, recreation, South Carolina*, wildlife


Keywords: interagency relations, jurisdiction, Southeast Atlantic*


Keywords: aquaculture, cooperation, development, fisheries, legal aspects, mineral resources, policy, port development, recreation, sociological aspects, technology

S20. (cont'd)
Keywords: jurisdiction, legislation, political aspects, Puget Sound*, Washington*


Keywords: assessment, California*, wetlands


Keywords: Atlantic Coast*, development, economic aspects, estuaries, inventory, preservation, resource use, wetlands


Keywords: Atlantic coast*, conflicts, goals, legal aspects, multiple use, ownership, planning, preservation, programs


Keywords: estuaries, industrial operations, pollution (oil)


Keywords: economic aspects, North Carolina*, preservation, projects, recreation, wildlife


Keywords: coordination, development, Gulf of Mexico*, multiple use, planning

Keywords: boundaries, floods, legal aspects, multiple use, navigation, ownership


Keywords: coordination, interagency relations, legal aspects, Texas*


Keywords: boundaries, jurisdiction, legal aspects, legislation, national coastal zone*, resource use


Keywords: economic aspects, problems, resource use, sociological aspects, water resources


Keywords: California*, needs, programs, research


Keywords: hunting, legislation, Texas*, wildlife


Keywords: historical aspects, rivers, Virginia*, wastes, water quality

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Keywords: Chesapeake Bay*, commercial fisheries, economic aspects, Maryland*, Virginia*


Keywords: economic aspects, estuaries, sociological aspects

Keywords: coordination, legal aspects, multiple use, national coastal zone*


Keywords: needs, New York*, planning, priorities, programs


Keywords: education, fisheries, goals, industrial operations, mineral resources, problems, programs, recreation, resource use, technology, Texas*


Keywords: industrial development, Texas*


Keywords: coordination, development, land use, legal aspects, Texas*, transportation


Keywords: estuaries, resource use, Texas*

Keywords: conferences, development, education, goals, resource use, Texas*


Keywords: development, estuaries, industrial development, legislation, mineral resources, recreation, resource use, transportation, wastes


Keywords: bays, commercial fisheries, development, disposal, estuaries, hearings, industrial development, legislation, mineral resources, multiple use, problems, recreation, Texas*, transportation, water supply, wetlands, wildlife


Keywords: planning, programs, Texas*


Keywords: bays, estuaries, legal aspects, legislation, regulation, Texas*


Keywords: industrial operations, planning, port development, Texas*, transportation

Keywords: mineral resources, mining, planning, Texas*


Keywords: land use, Texas*


Keywords: conflicts, demands, inventory, planning, Texas*, water supply

Thuesen, Gerald J. 1971. A Study of Public Attitudes and Multiple Objective Decision Criteria for Water Pollution Control Projects. School of Industrial and Systems Engineering, Georgia Institute of Technology, Atlanta, 70 p.

Keywords: assessment, attitudes, decision making, projects


Keywords: islands, planning, preservation, Virgin Islands*


Keywords: islands, planning, recreation, Virgin Islands*


Keywords: New York*, planning, problems, programs, research, resource use

Keywords: commerce, development, Maryland*, navigation, projects, resource use, Virginia*


Keywords: Chesapeake Bay*, commercial fisheries, construction, economic aspects, Maryland*, planning, Virginia*


Keywords: commerce, cooperation, costs, hearings (public), legal aspects, mapping, navigation, planning, rivers, transportation, Virginia*


Keywords: hearings (public), industrial operations, navigation, planning, projects, public use, rivers, transportation, Virginia*


Keywords: North Atlantic*, planning, projects, uses, water quality


Keywords: costs, inventory, North Atlantic*, projects, protection, shorelines

Keywords: development, legal aspects, national coastal zone*, ownership, protection, shorelines


Keywords: conservation, development, geological aspects, industrial development, national coastal zone*, protection, research, shorelines


Keywords: decision making, development, national coastal zone*, planning, preservation


Keywords: costs, disposal, economic aspects, jurisdiction, legal aspects, policy, pollution, problems, research, water quality


Keywords: demand, land use, Maryland*, Potomac River*, recreation, rivers, Virginia*


Keywords: development, facilities, geological aspects, national coastal zone*, recreation, research, resource use


Keywords: disposal, jurisdiction, legal aspects, marshes, New England*, public health, research, water resources


Keywords: bays, California*, coordination, development, geological aspects, needs, planning, problems, programs, resource use, San Francisco Bay*


Keywords: boundaries, jurisdiction, legal aspects, offshore oceans


Keywords: hearings (House), national coastal zone*


Keywords: California*, legislation, multiple use, recreation


Keywords: hearings (House), national coastal zone*

U20. (cont'd)
Keywords: boundaries, commercial fisheries, conferences, conservation, fisheries, industrial operations, international coasts*, navigation, pollution, preservation, resource use, sport fisheries, treaties

Keywords: development, power plants, problems, protection, research

Keywords: bibliography, Connecticut*, legal aspects, legislation, Maine*, New England*, New Hampshire*, Rhode Island*, Vermont*

Keywords: education, national coastal zone*, private use, recreation, research, transportation, wildlife

Keywords: economic aspects, education, priorities, programs, research, technology

Keywords: hearings (Senate), international coasts*, national coastal zone*, policy

Keywords: hearings (Senate), national coastal zone*, policy

Keywords: attitudes, economic aspects, legal aspects, national coastal zone*, personnel, planning, policy, pollution, programs, wastes, water quality, water supply

Keywords: legislation, planning, Rhode Island*


Keywords: agriculture, commercial fisheries, industrial operations, legal aspects, navigation, planning, policy, pollution, preservation, recreation, resource use, Virginia*, wildlife


Keywords: commercial fisheries, industrial operations, legal aspects, legislation, Virginia*


Keywords: assessment, conservation, economic aspects, programs, Virginia*, water resources


Keywords: land use, needs, planning, recreation, Virginia*


Keywords: development, planning, rivers, Virginia*

Keywords: legal aspects, legislation, Virginia*, water resources


Keywords: economic aspects, North Carolina*, planning, recreation, Virginia*, water quality


Keywords: attitudes, economic aspects, legal aspects, legislation, needs, planning, programs, public health, Virginia*, wastes


Keywords: agriculture, economic aspects, industrial development, planning, Virginia*


Keywords: agriculture, costs, development, economic aspects, education, facilities, industrial development, land use, planning, recreation, resource use, Virginia*


Keywords: development, economic aspects, inventory, navigation, planning, resource use, Virginia*


Keywords: development, economic aspects, inventory, navigation, planning, resource use, Virginia*

Keywords: development, economic aspects, inventory, navigation, planning, resource use, rivers, Virginia*


Keywords: demands, economic aspects, industrial operations, projects, technology, Virginia*


Keywords: construction, economic aspects, interagency relations, legal aspects, programs, Virginia*


Keywords: assessment, planning, Virginia*


Keywords: conservation, development, education, fisheries, pollution, research, resource use, Virginia*


Keywords: commercial fisheries, legislation, sport fisheries, Virginia*


Keywords: land use, legislation, preservation, recreation, rivers, Virginia*

Keywords: economic aspects, estuaries, multiple use, pollution, public policy, research, Virginia*


Keywords: decision making, programs, research, resource use, Virginia*, water resources


Keywords: legal aspects, pollution, public use, Virginia*, water resources


Keywords: coordination, disposal, economic aspects, planning, rivers, Virginia*, water resources


Keywords: coordination, disposal, economic aspects, planning, rivers, Virginia*, water resources


Keywords: bays, Chesapeake Bay*, planning, rivers, Virginia*, wastes

Keywords: coordination, disposal economic aspects, planning, rivers, Virginia*, water resources


Keywords: planning, rivers, Virginia*, wastes, water quality


Keywords: agriculture, development, industrial operations, pollution, problems, recreation, resource use, rivers, transportation, Virginia*


Keywords: agriculture, economic aspects, education, facilities, land use, sociological aspects, Virginia*

Keywords: priorities, projects, research, Virginia*, water resources


Keywords: legal aspects, legislation, ownership, Virginia*, water resources


Keywords: legal aspects, legislation, policy, water quality, water supply

W4. Wallace, McHarg, Roberts and Todd, Inc. 1972. *Maryland Chesapeake Bay Study.* Prepared for the Maryland Department of State Planning and the Chesapeake Bay Interagency Planning Committee, Baltimore, Maryland, 403 p.

Keywords: Chesapeake Bay*, conflicts, goals, industrial development, Maryland*, multiple use, planning, pollution, problems, resource


Keywords: coordination, education, organization, planning, programs


Keywords: education, research, Texas*

Keywords: coordination, decision making, planning, public participation, water resources


Keywords: California*, interagency relations, problems, resource use


Keywords: economic aspects, fisheries, policy, political aspects, Washington*


Keywords: assessment, economic aspects, goals, legal aspects, resource use, Virginia*, wetlands


Keywords: offshore oceans, planning, power plants, water quality


Keywords: conservation, Great Lakes*, planning, shorelines, uses, water quality, wetlands, Wisconsin*


Keywords: cooperation, education, facilities, fisheries, needs, planning, programs, research

Keywords: facilities, Wisconsin*


Keywords: Great Lakes*, multiple use, planning, preservation, Wisconsin*


Keywords: compacts, legal aspects, legislation, national coastal zone*, treaties


Keywords: legal aspects, legislation, pollution

Keywords: legal aspects, Louisiana*, ownership, public access, rivers
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| Goals           | B17, C3, C43, D6, E3, G6, H13, H17, H35, M1, M19, M46, N6, N11, N12, N13, N15, N17, N24, N26, P1, P2, P3, R15, S23, T3, T7, W4, W10 |
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