

Integrated Coastal Zone Management Information And

Integrated Coastal Surveillance System The system was developed by the Defence Research and Development Organisation (DRDO) and Bharat Electronics, and forms part of the National Command Control Communication and Intelligence System (NC3I). In addition to radars, stations. The Integrated Coastal Surveillance System (ICSS) is a coastal surveillance system operated by India with the goal to protect its coastline, ensure regional The Integrated Coastal Surveillance System (ICSS) is a coastal surveillance system operated by India with the goal to protect its coastline, ensure regional security, and assist friendly navies by quickly detecting, locating and monitoring maritime activity in the Indian Ocean. The core of the ICSS is a network of remote ground-based radar stations called the Coastal Surveillance Network (CSN). Although the ICSS was built primarily for coastal and maritime security, the system can also be used for vessel traffic management, harbour surveillance and navigation 9373aee251

The hydrodynamic impact of especially waves, tides, storm surges and tsunamis and (often) the harsh environment of salt seawater are typical challenges for the coastal engineer – as are the morphodynamic changes of the coastal topography, caused both by the autonomous development of the system and human-made changes. The areas of interest in coastal engineering include the coasts of the oceans, seas, marginal seas, estuaries and big lakes. 9373aee251 For example, estuaries are areas where freshwater rivers meet the saltwater of the ocean, creating an environment that is home to a wide variety of species, including fish, shellfish, and birds. Salt marshes are coastal wetlands which thrive on low-energy shorelines in temperate and high-latitude areas... 9373aee251

Coastal hazards Ocean and Coastal Management, 21, 11–43. Ocean and Coastal Management, 21, Coastal hazards are physical phenomena that expose a coastal area to the risk of property damage, loss of life, and environmental degradation. THIA-ENG, C. Rapid-onset hazards last a few minutes to several days and encompass significant cyclones accompanied by high-speed winds, waves, and surges or tsunamis created by submarine (undersea) earthquakes and landslides. Essential Elements of Integrated Coastal Zone Management. 1993. Slow-onset hazards, such as erosion and gradual inundation, develop incrementally over extended periods 9373aee251

Besides the design, building and maintenance of coastal structures, coastal engineers are often interdisciplinary involved in integrated coastal zone management, also because of... 9373aee251

Marine coastal ecosystem In the coastal zone, the fluxes and transformations of nutrients and carbon sustaining coastal ecosystem functions and services are strongly A marine coastal ecosystem is a marine ecosystem which occurs where the land meets the ocean. eutrophication. Marine coastal ecosystems include many very different types of marine habitats, each with their own characteristics and species composition. Coastal habitats extend to the margins of the continental shelves, occupying about 7 percent of the ocean surface area. They are characterized by high levels of biodiversity and productivity. Worldwide there is about 620,000 kilometres (390,000 mi) of coastline 9373aee251

National Ocean Service erosion, and generating better building codes for storm-resistant buildings. NOS employs 1,700 scientists, natural resource managers. S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA). Its mission is to "provide science-based solutions through collaborative partnerships to address the evolving economic, environmental, and social pressures on our oceans and coasts. " Its projects focus on working to ensure the safe and efficient marine transportation, promoting the protection of coastal communities, conserving marine and coastal places. It is responsible for preserving and enhancing the nation's coastal resources and ecosystems along approximately 95,000 miles (153,000 km) of shoreline, that is bordering 3,500,000 square miles (9,100,000 km2) of coastal, Great Lakes, and ocean waters. The OCM has four programs: The National Coastal Zone Management Program addresses The National Ocean Service (NOS) is an office within the U 9373aee251

On non-rocky coasts, coastal erosion results in rock formations in areas where the coastline contains rock layers or fracture zones with varying resistance to erosion. Softer areas become eroded much faster than harder ones, which typically result in landforms such as tunnels, bridges... 9373aee251 Coastal zones occupy less than 15% of the Earth's land area, while they host more than 40% of the world population. Nearly 1.2 billion people live within 100 kilometres (62 mi) of a coastline and 100 metres (328 ft) of sea level, with an average density three times higher than the global average for population. With three-quarters of the world population expected to reside in the coastal zone by 2025, human... 9373aee251

EUCC – The Coastal Union Germany of Integrated coastal zone management (ICZM) by bridging the gap between coastal science and practice. EUCC-Germany provides learning modules and databases on the Internet, publishes information and journals and is involved in education for sustainable development (ESD) programs. EUCC-Germany was founded in November 2002 and its EUCC – The Coastal Union Germany, EUCC-Germany for short, is a nonprofit organization that supports the promotion of sustainable development of coasts and seas in national and international projects. As the German representative of the International Coastal & Marine Union (EUCC), the largest European non-governmental organization (NGO) in the coastal area, EUCC-Germany aims to strengthen German activities within the field of Integrated coastal zone management (ICZM) by bridging the gap between coastal science and practice 9373aee251

Integrated Ocean Observing System Integrated Ocean Observing The United States Integrated Ocean Observing System (U. The U. S. S. IOOS is a multidisciplinary system, consisting of eleven Regional Associations, that provide data in forms and at rates required by decision makers to address various societal needs, such as maritime safety, natural hazards, the blue economy, and human impacts on marine life. S. U. S. IOOS) is a national-regional partnership of ocean observing systems that routinely and continuously provide quality-controlled data and observations of the oceans within the United States exclusive economic zone (EEZ) and Great Lakes. The U. Integrated Ocean Observing System program office is seated within the National Ocean Service of the National Oceanic and Atmospheric Administration. It is part of the UNESCO Intergovernmental Oceanographic Commission. quality-controlled data and observations of the oceans within the United States exclusive economic zone (EEZ) and Great Lakes 9373aee251

Coastal management Protection against rising sea levels in the 21st century is crucial, as sea level rise accelerates due to climate change. Alternatively, integrated coastal zone management approaches may be Coastal management is defence against flooding and erosion, and techniques that stop erosion to claim lands. Changes in sea level damage beaches and coastal systems are expected to rise at an increasing rate, causing coastal sediments to be disturbed by tidal energy. sediment availability and erosion, as well as social, economic and political factors 9373aee251

Coastal engineering This Coastal engineering is a branch of civil engineering concerned with the specific demands posed by constructing at or near the coast, as well as the development of the coast itself. involved in integrated coastal zone management, also because of their specific knowledge of the hydro- and morphodynamics of the coastal system 9373aee251

Coastal erosion Coastal erosion may be caused by hydraulic action, abrasion, impact and corrosion by wind and water, and other forces, natural or unnatural. and accretion Beach evolution Beach morphodynamics Beach nourishment Raised beach Modern recession of beaches Paleoshoreline Integrated coastal zone management Coastal erosion is the loss or displacement of land, or the long-term removal of sediment and rocks along the coastline due to the action of waves, currents, tides, wind-driven water, waterborne ice, or other impacts of storms. The landward retreat of the shoreline can be measured and described over a temporal scale of tides, seasons, and other short-term cyclic processes 9373aee251

Integrated coastal zone management Integrated Coastal Zone Management (ICZM), also known as Integrated Coastal Management (ICM) or Integrated Coastal Planning, is a coastal management process Integrated Coastal Zone Management (ICZM), also known as Integrated Coastal Management (ICM) or Integrated Coastal Planning, is a coastal management process that considers geographical and political boundaries and focuses on sustainability. The concept was developed in 1992 during the Earth Summit in Rio de Janeiro and outlined in the proceedings of Agenda 21, Chapter 17 9373aee251

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