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Fluvial Hydrodynamics: Hydrodynamic And Sediment Transport ...

The Yangtze Delta is a mega mixed fluvial-tidal delta located on the east coast of Asia (Fig. 1a), its hydro-morphodynamics is deeply influenced by multiple natural processes and human

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activities (Dai et al., 2014, Dai et al.,
2015; Wei et al., 2019). The tide is
irregular and semi-diurnal with mean
tidal range of 2.60 m near the Hengsha
Island, while the maximum tidal range
exceeds 4.6 m ().

**Hydro-morphodynamics triggered
by extreme riverine floods ...**

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Coral reefs can influence hydrodynamics and morphodynamics by dissipating and refracting incident wave energy, modifying circulation patterns, and altering sediment transport pathways. In this study, the sediment and hydrodynamic response of a senile (dead) barrier reef (Crocker Reef, located in the upper portion of the

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Florida Reef Tract) to ...

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**COAWST: A Coupled-Ocean-
Atmosphere-Wave-Sediment
Transport ...**

Despite similar forcing conditions of
fluvial sediment reduction and relative
sea-level rise, there are significant
differences in delta morphological

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change caused by hydrodynamics and
local ...
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**Weiguo ZHANG | Professor (Full) |
PhD | East China Normal ...**

The CD is located at the land-ocean interface where the Changjiang River, also called Yangtze River, with a main river length of ~6300 km, meets the

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East China Sea (ECS), an epi-continental
marginal shelf sea in the west of the
Pacific Ocean (). The river's silt-laden
water brings a huge amount of sediment
and builds up the mega CD beyond
Nanjing since 8000 aBP (Chen et al.,
1985; Li et al ...

Changjiang Delta in the

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Anthropocene: Multi-scale hydro ...

Hence, nowadays, the external fluvial and marine sources of sediment are negligible and hydrodynamic processes, such as tidal currents, wind waves and storm surges, mainly rework and redistribute ...

Marsh resilience to sea-level rise

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reduced by storm-surge ...

Hydro-Environmental Research Centre,
School of Engineering, Cardiff University,
The Parade, Cardiff CF24 3AA, UK

Interests: computational hydro-
environmental modelling; laboratory
hydraulic modelling; hydrodynamic
processes; water quality; sediment
transport and morphology; faecal

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Water - MDPI

Accretion or Aggradation. Growth (vertical and/or horizontal) of morphological structures (beach, bar, dune, sand bank, tidal flat, salt marsh,

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tidal channel, etc.) by sedimentation. Active coastal zone. The active coastal zone (also called active coastal profile) is the cross-shore coastal zone that is highly dynamic, with up and down redistribution of sand by the action of tides, waves and wind.

Definitions of coastal terms -

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The principal source of sediment to the coastline is from rivers and streams (Komar, 1976); thus, changes in land use and stream hydrology can affect the supply of sediments to beaches and, consequently, shoreline erosion (Inman, 1976; Kuhn and Shepard, 1983).

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**2: MAJOR COASTAL
ENVIRONMENTAL ISSUES | Priorities
for ...**
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In the literature, attention has been given mainly to (1) statistical procedures for sampling and testing of preferred paleocurrent direction (Rao and Sengupta, 1972), (2) the correct paleocurrent determination in cross-

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stratified deposits (DeCelles et al.,
1983), (3) rose diagram construction
(Nemec, 1988), and (4) the introduction
of a new graphic method for depicting
paleocurrent data on ...

**A graphic method for depicting
basin evolution and changes ...**
The availability of fluvial sediment

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depends on precipitation, dams/weir presence, and fluvial sediment entrainment. ... though is predominantly controlled by strong hydrodynamics, due to the large fetch of the Atlantic and Indian Oceans (Fig. 8). Thus, mangroves are fragmented along the coast, found in a variety of sheltered hydrodynamic ...

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**Impacts of climate change on
mangrove ecosystems: a region...**

The offshore of Leizhou Peninsula (LP, China), which contains unique ecosystems such as mangroves, seagrass beds, and coral reefs, is an environmentally sensitive area. For this reason, the levels of aliphatic hydrocarbon including biomarkers

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(hopanes, steranes) in the offshore
seafloor sediments were analyzed in
terms of their composition, distribution,
and input sources and aimed to evaluate

...

Composition and Distribution of Aliphatic Hydrocarbon ...

A ship is a large watercraft that travels

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the world's oceans and other sufficiently
deep waterways, carrying goods or
passengers, or in support of specialized
missions, such as defense, research, and
fishing. Ships are generally distinguished
from boats, based on size, shape, load
capacity, and purpose. In the Age of Sail
a "ship" was a sailing vessel defined by
its sail plan of at least three ...

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Ship - Wikipedia

Hydrodynamics controls ... The combination of tectonic and hydrodynamic controls led to the ... (e.g. due to longshore gradients in sediment transport, reduction of fluvial sediment supply to the ...

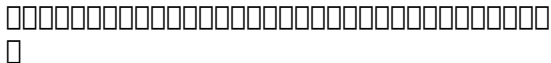
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The State of the World's Beaches | Scientific Reports

concentrations have great effects on sediment systems and processes. Most of the sediment modeling papers focus on particle transport processes (water column transport and bedload movement). Other research has addressed sediment mobility, sediment

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suspensions, sediment transport models,
and use of sediments in paleolimnology.
(Geiger-PTT) 35 ...
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**Agricultural Conservation Practices
and Related Issues ...**



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Library

Flow structure, sediment transport and morphology of rivers are investigated in the hydraulics of rivers in river engineering . The study of water quality of rivers is a common theme in earth sciences. To ... Fluvial Hydrodynamics: Hydrodynamic and Sediment Transport

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**Water quality prediction using
machine learning methods ...**

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A new large-scale suspended sediment model and its application over the United States. Hong-Yi Li, Zeli Tan, Hongbo Ma, Zhenduo Zhu, Guta Abeshu, Senlin Zhu, Sagy Cohen, Tian Zhou, Donghui Xu, and Lai-Yung Ruby Leung. Hydrol.

HESS - Preprints

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Abstract. We present PCR-GLOBWB 2, a global hydrology and water resources model. Compared to previous versions of PCR-GLOBWB, this version fully integrates water use. Sector-specific water demand, groundwater and surface water withdrawal, water consumption, and return flows are dynamically calculated at every time step and

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interact directly with the simulated
hydrology. Geoplanet Earth
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