WASER
WORLD ASSOCIATION FOR SEDIMENTATION AND EROSION RESEARCH

World Association for Sedimentation & Erosion Research – WASER

NEWSLETTER

Reporting WASER news to you regularly

2021 No. 1
(Mar. 25, 2021)

IN THIS ISSUE

世界泥沙研究学会简报

本期内容

NEWS

WASER sponsored ICEC 2021 is now open for abstract submission

The 7th International Conference on Estuaries and Coasts (ICEC 2021) is organized by the State Key Laboratory of Estuarine and Coastal Research, East China Normal University, Shanghai, China and will take place in Shanghai from October 18-21, 2021. The ICEC 2021 is sponsored by IRTCES and WASER.

The International Conference on Estuaries and Coasts (ICEC) is a triennial event initiated by the International Research and Training Center on Erosion and Sedimentation (IRTCES). Six such conferences have now been held in Hangzhou and Guangzhou, China; Sendai, Japan; Hanoi, Vietnam; Muscat, Oman, and Caen, France in 2003, 2006, 2009, 2012, 2015 and 2018. With support from related international associations, and with the participation of experts and scholars worldwide, the ICEC has attracted wide attention and has become an important and popular event. The ICEC provides an opportunity for scientists, engineers, researchers and decision-makers to exchange ideas, research results and advanced techniques, and develop collaboration and friendships. The 7th International Conference on Estuaries and Coasts (ICEC 2021) will be held in the East China Normal University, Shanghai, China during October 18-21, 2021.

Abstract submission for the ICEC 2021 is open at: http://icec2021.ecnu.edu.cn/.

WASER co-sponsored 4th World's Large Rivers Conference is open for abstract submission

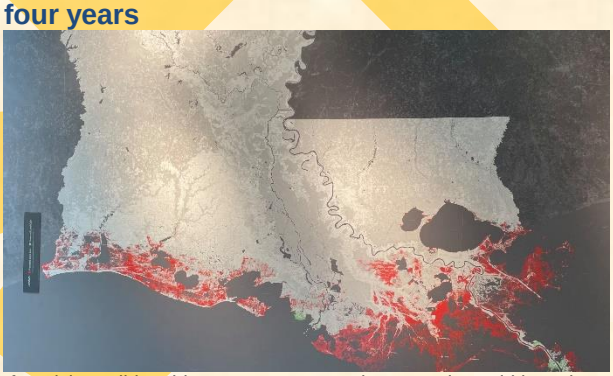
The 4th World's Large Rivers Conference, organized by the Lomonosov Moscow State University, Russia and the University of Natural Resources and Life Sciences, Vienna, Austria, will take place as a hybrid event from 3rd – 6th of August 2021. This means that the conference can be attended either physically on-site or virtually online. Abstract submission will be possible until 31st of May 2021.

WASER is one of co-sponsors of the 4th World's Large Rivers Conference.

Abstract submission is open at: https://worldslargerivers.boku.ac.at/wlr/index.php/abstractsubmission.html.

More detailed information can be found on the Conference webpage: https://worldslargerivers.boku.ac.at/wlr/.

Efforts to halt Mississippi River erosion expected to yield promising results over next four years



If Louisiana did nothing to try to restore the coast, it would lose the areas in red on this map to erosion over the next 50 years. (Sydney McGovern/LSU Manship School News Service)

(Sydney McGovern / Louisiana State University Manship School News Service) Thousands of years ago, the Mississippi River Delta was formed from sediment deposited by the river. Layer upon layer of sand, silt and clay make up the land that millions of people live and work on today.

But in the past 100 years, Louisiana has lost over 2,000 square miles of land. That's about the size of Delaware, or the total combined landmass of St. Charles, St. John, St. James, Ascension, East Baton Rouge and East Feliciana parishes.

Man-made levees protect South Louisiana from devastating flooding, but they also prevent the river from depositing sediment to maintain the marshes. Without major action, Louisiana would lose 4,200 square miles of land over the next 50 years, endangering communities and increasing

storm surges.

But efforts to halt the erosion are entering a promising new phase over the next four years—one in which the state expects, for the first time since the losses began in the 1930s, to see more land created than it loses. That will come as the Coastal Protection and Restoration Authority (CPRA) shifts from planning massive new dredging and sediment-diversion projects to executing them.

"This is the moment in time in the coastal program that we have been waiting on," said Chip Kline, the authority's chairman. "We actually have the political will and the funding necessary to implement these projects that we've envisioned for years."

The biggest is the Mid-Barataria Sediment Diversion project, which will help re-create marshes that will provide storm protection to Plaquemines, Jefferson, Orleans and Lafourche parishes.

The project will replace portions of the Mississippi River levee on the West Bank with large concrete gates that can be opened to allow sediment to flow from the river into depleting wetlands, creating tens of thousands of acres of new land.

The sediment from the river will also sustain land that the CPRA is creating through dredging projects and extend the benefit from the dredging for 60 to 70 years.

"The Mid-Barataria Sediment Diversion Project is the cornerstone project within the coastal master plan on the restoration side," Kline said. "It gives us a fighting chance to win this battle. It puts us in the ball game to save the Barataria Basin and portions of Southeast Louisiana because that project is designed to mimic the natural process that built this state to begin with."

The project will eventually cost $1.4 billion, and much of it will be paid for from money provided by the BP oil company to cover damages from its oil spill in 2010.

Even though the project will harm some areas for harvesting oysters and brown shrimp, it could also provide a model for future sediment diversions along the Atchafalaya River and other parts of the Mississippi.

Since the CPRA was formed in 2007 to centralize the state's coastal environment efforts, it has secured over $21.4 billion for protection and restoration projects in 20 parishes. It has built or improved over 300 miles of levees and 60 miles of barrier islands and dredged over 150 million cubic yards of material, creating nearly 50,000 acres of new land.

Each year, the authority presents a plan to the Legislature outlining project timelines, anticipated costs and funding sources. The fiscal year 2022 plan includes 110 active projects, including nine in Southwest Louisiana, 35 in South Central Louisiana, and 66 in Southeast Louisiana. The authority anticipates over $887 million in investments in the coming year, with 90% of total expenditures going toward project construction and maintenance.

These projects fall into two basic groups—hurricane protection or risk reduction projects and restoration projects. On the restoration side, the overwhelming majority are dredging projects in which material is taken from the Mississippi River or the continental shelf and pumped into depleted marshes. The authority anticipates that these projects will create about 15,000 acres of new land.

Other projects include flood gates, surge protection, pump stations and barrier island restoration.

Although the Mid-Barataria Sediment Diversion Project is yet to be constructed, the key to years of careful planning and development is housed in Louisiana State University's Center for River Studies.

The Center uses its 10,000-square-foot model of the Lower Mississippi River to perform experiments that recreate the river flow, water levels and sediment transport at a rate of one year of real-life movement for every hour.

Director Clint Willson said that the work conducted at the center provides data that are crucial for the operations of CPRA and the Army Corps of Engineers.

"With the model, we're trying to help the state understand how the sand moves down the river year to year, decade to decade," said Willson. "Then the state can think about how much sand is going to be available that they can either dredge and pump for marsh creation projects or how much sand will be available when they open the river sediment diversion gates."

Kline said the model was "a game changer for us" in designing the Mid-Barataria Sediment Diversion Project.

"It's an impressive structure, and its value cannot be put into words," Kline said.

"Going into the future," he added, "we plan on using that model to help inform the operations of that structure—when do we need to turn that structure on to capture the most sediment? What kind of flow do we need to operate the diversion?"

The work at the Center for River Studies and the hundreds of coastal protection and restoration projects employed by the state all share a common

goal—protect Louisiana residents, conserve the state's coast and preserve Southern Louisiana's cultural heritage.

As the marshland sinks, scientists project that sea levels will rise as a result of climate change, further complicating the task of saving the state's coastline.

"I'm never going to say, 'I'm just going to walk away because this is a losing battle,'" Kline said. "This is a battle that has got to be fought, now and into the future, to make sure that we continue to live and work in the place that is so unique known as South Louisiana."

The Coastal Authority's annual plan awaits approval from the House and Senate Natural Resources committees and the House and Senate Transportation, Highways and Public Works committees before a vote by the full House and Senate. (Source: https://www.brproud.com/)

China boosts ecological protection through Yellow River diversions

BEIJING, Jan. 20 (Xinhua) -- China will divert water from the Yellow River to more regions this year to boost ecological protection, the Yellow River Conservancy Commission of the Ministry of Water Resources said on Wednesday.

Water diversion projects will focus on emergency water supplies for major wetlands and lakes along the river, as well as ecological restoration in northern Chinese regions with groundwater shortages, according to a plan released by the commission.

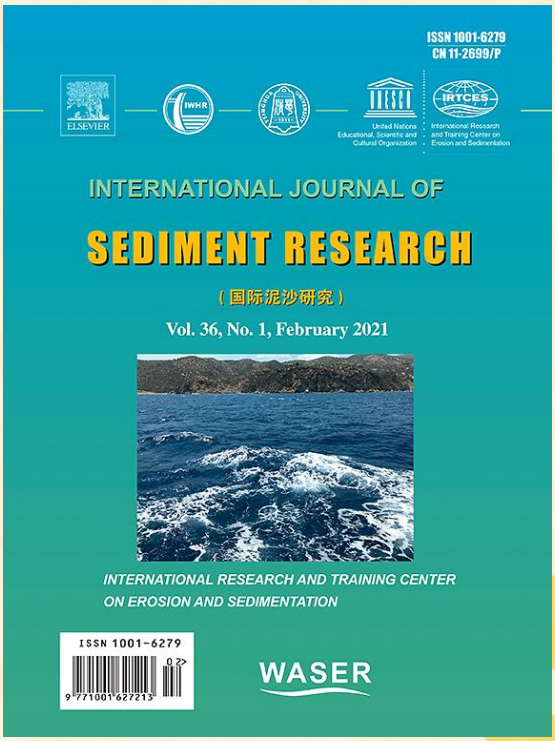
Such projects aim to sustain all the ecosystems in the Yellow River basin, including mountains, rivers, lakes, forests, farmland and grassland, the Commission said, adding that they will also provide ecology-oriented support for major national strategies, such as the development of the Xiong'an New Area.

The commission urged related authorities to strengthen water condition forecasting and analysis, and called for targeted use of key reservoirs to ensure the projects progress smoothly.

(Source: Xinhua News Agency)

PUBLICATIONS

Papers Published in the International Journal of Sediment Research Volume 36, No. 1, 2021



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Book review of Mechanics of Bio-Sediment Transport, Hongwei Fang, Lei Huang, Huiming Zhao, Wei Cheng, Yishan Chen, Mehdi Fazeli, Qianqin Shang (Eds.). Springer-Verlag, Berlin Heidelberg (2020)
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'Corrigendum to "Uniform and graded bed-load sediment transport in a degrading channel with non-equilibrium conditions" [International Journal of Sediment Research 35 (2020) 115–124/04-258]'
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Full papers are available at ScienceDirect: https://www.sciencedirect.com/journal/international-journal-of-sediment-research with free access to the paper

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Full papers are available at ScienceDirect: https://www.sciencedirect.com/journal/international-journal-of-sediment-research with free access to the paper abstracts.

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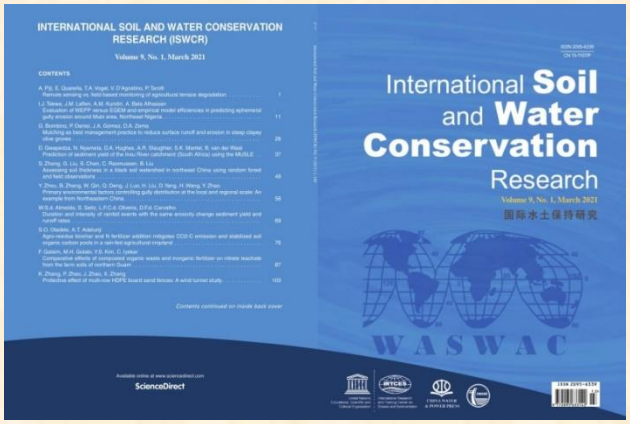

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COMING EVENTS

3rd International Youth Forum on Soil and Water Conservation (Iran, May 16-21, 2021)

Date: May 16-21, 2021
Venue: Tarbiat Modares University, Noor, Iran
Organizers:
World Association of Soil and Water Conservation (WASWAC)
Faculty of Natural Resources and Marine Sciences, Tarbiat Modares University, Iran
Sponsors:
World Association of Soil and Water Conservation (WASWAC)
Co-sponsors:
Watershed Management Society of Iran
Gorgan University of Agricultural Sciences & Natural Resources
Chinese Society of Soil and Water Conservation
Institute of Soil and Water Conservation, CAS & MWR
Datum Technology
Secretariat:
Faculty of Natural Resources and Marine Sciences, Tarbiat Modares University
Summary: The International Youth Forum on Soil and Water Conservation (IYFSWC) is a triennial event initiated by the World Association of Soil and Water Conservation (WASWAC). Two such conferences have now been held in Nanchang, China and Moscow, Russia in 2015 and 2018. With support from related international associations, and with the participation of experts and scholars worldwide, the IYFSWC has attracted wide attention and has become an important and popular event. The IYFSWC provides an opportunity for young scientists and early-career researchers to exchange ideas, research results and advanced techniques in soil and water conservation, and develop collaboration and friendships. The 3rd International Youth Forum on Soil and Water Conservation will be held in Tarbiat Modares University, Noor, Iran during May 16-21, 2021.
Overall Theme:
Soil and Water Conservation (SWC) under Changing Environments
Topics of the Conference (tentative):
1. Smart SWC
2. Adaptive SWC
3. Youth Roles in SWC
4. Climate Change and SWC
5. SWC in Developing Countries
6. Performance Evaluation of SWC Projects
7. Impacts and Possible Solutions of COVID-19 Pandemic on SWC Practices
URL: www.IYFSWC.modares.ac.ir
Contacts: IYFSWC@modares.ac.ir

World's Large Rivers Conference 2021 (Russia, August 2-6, 2021)

Date: August 2-6, 2021
Venue: Moscow, Russia
Summary: This WASER- / ISI-co-sponsored conference aims to provide a global forum for a wide-ranging discussion of key issues related to research on large rivers and to their effective and sustainable management, involving both scientists and decision makers. The conference will be organised by MSU - Lomonosov Moscow State University, Russia, and BOKU - University of Natural Resources and Life Sciences, Vienna, Austria. We kindly ask all interested authors to submit their work within the topics of
- Hydrology, Hydraulics & Hydroclimatic Impacts
- Sediment Transport & River Morphology
- River Pollution, Ecology & Restoration
- Integrated River Management

Special focus will be given this time to **Climate Change** and its impact - not only in general, but also specifically related to **Russian and Arctic Rivers**.
Supported by: WASER World Association for Sedimentation and Erosion Research; **UNESCO** United Nations Educational, Scientific and Cultural Organization; **IAHR** International Association of Hydro-Environment Engineering and Research; **IAHS** International Association of Hydrological Sciences; **IAG** International Association of Geomorphologists. All WASER- and ISI-members can benefit from a reduction of conference fees of 10%.
URL: http://worldslargerivers.boku.ac.at/wlr/

The 7th International Conference on Estuaries and Coasts (Shanghai, China, October 18-21, 2021)

Date: October 18-21, 2021 (Tentative)
Venue: East China Normal University, Shanghai, China
Organizers:
East China Normal University
Sponsors: International Research and Training Center on Erosion and Sediment Research (IRTCES); World Association for Erosion and Sediment Research (WASER)
Co-sponsors: International Association for Hydro-Environment Engineering and Research (IAHR).....(to be invited)
Secretariat: East China Normal University
Summary: The International Conference on Estuaries and Coasts (ICEC) is a triennial event initiated by the International Research and Training Center on Erosion and Sedimentation (IRTCES). Six such conferences have now been held in Hangzhou and Guangzhou, China; Sendai, Japan; Hanoi, Vietnam; Muscat, Oman, and Caen, France in 2003, 2006, 2009, 2012, 2015 and 2018. With support from related international associations, and with the participation of experts and scholars worldwide, the ICEC has attracted wide attention and has become an important and popular event. The ICEC provides an opportunity for scientists, engineers, researchers and decision-makers to exchange ideas, research results and advanced techniques, and develop collaboration and friendships. The 7th International Conference on Estuaries and Coasts (ICEC-2021) will be held in the East China Normal University, Shanghai, China during October 18-21, 2021.
Overall Theme:
Anthropocene Coasts
Topics of the Conference (tentative)**:**
1. Hydrodynamics in estuaries and coasts: tides, waves, circulations, and their interactions;
2. Sediment transport dynamics: sand, mud and their mixture;
3. Multi-scale morphodynamics: tidal flats, estuaries, deltas, beaches, dunes, eco-morphodynamics…;
4. Coastal management: flood defense, ecosystem conservation, human-nature interactions…

URL: http://icec2021.ecnu.edu.cn/
Contacts:

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15th International Symposium on River Sedimentation (Florence, Italy, September, 2022)

Date: September, 2022 (Three consecutive days at the end of August / beginning of September, 2022)
Venue: Florence, Italy
Organizer: University of Florence and University of Padua
Sponsors: International Research and Training Center on Erosion and Sediment Research (IRTCES); World Association for Erosion and Sediment Research (WASER)
Co-sponsors: International Association for Hydro-Environment Engineering and Research (IAHR).....(to be invited)
Secretariat: University of Florence, Italy
Permanent Secretariat: IRTCES
Summary: The triennial International Symposium on River Sedimentation (ISRS) was initiated in 1980. Since its foundation, IRTCES has served as the permanent secretariat of ISRS. WASER was inaugurated at the 9th ISRS in 2004, and the ISRS has since become the official Symposium of WASER. The objective of the ISRS is to provide a forum for scientists, engineers, researchers and decision makers to exchange ideas, research results and technical advances, , and to share experience and information relating to the study of sediment and its management.
Symposium Theme and Topics:
The theme of the symposium is
Sustainable Sediment Management in a changing Environment (tentative)
The symposium topics include (tentative):
1. Sediment transport
2. Reservoir sedimentation
3. River morphodynamics
4. Coastal morphodynamics
5. Ecomorphodynamics
6. Sediment related disaster
7. Plastic in river and coastal systems
8. Interaction between sediment dynamics and hydraulic structures
9. Integrated Sediment Management at the River Basin Scale
10. Social, economic & political problems related to sediment and water management
URL: (to be provided)
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World Association for Sedimentation & Erosion Research

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International Research and Training Center on Erosion and Sedimentation

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WASER URL: http://www.waser.cn

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WASER Secretariat
The WASER Newsletter is sent regularly to members of the WASER community and interested experts. Please send your contributions to the WASER Secretariat at chliu@iwhr.com.

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WASER

WORLD ASSOCIATION FOR SEDIMENTATION AND EROSION RESEARCH

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Position/Affiliation: _____

Address: _____

E-mail: _____ Telephone： _____ Fax: _____

Membership dues for 6 years ($US or Chinese RMB, or equivalent Euros) :

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[IJSR E-copy] Regular ($80 or RMB500) ☐

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[IJSR E-copy] Regular ($15 or RMB100) ☐ Student ($8 or RMB50) ☐

(Note: IJSR – International Journal of Sediment Research. The subscription fee for IJSR is USD 96 or RMB 900 per year.)

□ Bank transfer

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