

In this issue

Research Article

[Open Access](#) [Research Article](#) PTZAID:AMS-7-140

Alongshore sediment transport rate –measurement and comparison with empirical formulas and an Artificial Neural Network (ANN) model

Published On: December 16, 2023 | Pages: 061 - 072

Author(s): Azad Allahkarami, Jamal Nili, Sardar Bakhtyar, Fouzieh Kaki and Tayeb Sadeghifar*

The rate from alongshore sediment transport in the surf zone depends on the product of the local wave height and mean alongshore current speed. The aim of this article was to predict the alongshore sediment transport rate using a semi-empirical application of Artificial Neural Network (ANN) on the south coast of the Caspian Sea. This study reports the measurements of ...

[Abstract View](#) [Full Article View](#) [DOI: 10.17352/ams.000040](#)

[Open Access](#) [Research Article](#) PTZAID:AMS-7-139

Effects of tidal wave modulation on coastal flooding along a tide-river context: Case of the seine estuary

Published On: October 10, 2023 | Pages: 051 - 060

Author(s): El Turki*, J Deloffre, R Gilbert, ET Mendoza, E Salameh, N Abcha, N Lecoq and B Laignel

Tidal waves modulated over a range of timescales, from inter-daily to inter-annual variations, are responsible for coastal flooding which is enhanced in tide-river environments. The research described here investigates the tidal dynamics interacting with the fluvial component in the Seine estuary (NE France), an excellent natural laboratory for its time-varying flow a ...

[Abstract View](#) [Full Article View](#) [DOI: 10.17352/ams.000039](#)

[Open Access](#) [Research Article](#) PTZAID:AMS-7-138

Aquaculture and its conservation potential of critically endangered Jipe Tilapia (*Oreochromis jipe*) in Lake Jipe

Published On: July 13, 2023 | Pages: 045 - 050

Author(s): Paul S Orina*, Sheban Hinzano, Domitila Kyule, Abwao Jacob, Cecilia M Githukia, Tonny Orina and Mercy Chepkirui
Tilapia jipe (*Oreochromis jipe*) is listed as a critically endangered Cichlidae endemic to fast-shrinking Lake Jipe. Climate change and anthropogenic activities have significantly impacted the lakes' ecology and species' genetic integrity. Four months of Jipe tilapia culture growth performance was conducted in four selected farms within the Chala area, Taveta Sub-County ...

[Abstract View](#) | [Full Article View](#) | DOI: 10.17352/ams.000038

[Open Access](#) [Research Article](#) PTZAID:AMS-7-137

Temperature effects on grain growth phenomena and magnetic properties of silicon steels used in marine applications

Published On: June 21, 2023 | Pages: 040 - 044

Author(s): Nikolaos D Papadopoulos*, Polyxeni Vourna, Nikos Stefanakis, Sotirios Xafakis and Evangelos Hristoforou
The present paper investigates the stages of the microstructure and texture evolution in non-oriented electrical silicon steels by means of magnetic measurements and metallographic analysis. The goal of this work was to study temperature effects and their influence on grain growth processes in non-oriented electrical steels while being subjected to different annealing ...

[Abstract View](#) | [Full Article View](#) | DOI: 10.17352/ams.000037

[Open Access](#) [Research Article](#) PTZAID:AMS-7-136

Oceans' surface pH-value as an example of a reversible natural response to an anthropogenic perturbation

Published On: June 15, 2023 | Pages: 034 - 039

Author(s): Hans-Rolf Dübal* and Fritz Vahrenholt

The anthropogenic emission of carbon dioxide (CO₂) has influenced the pH values of the oceans' surface. Observations show that for several decades, the surface pH value is declining with a simultaneously rising CO₂ concentration. It is an important question to understand to what extent this process is reversible. Hence, in this study, the atmospheric carbon dioxide (C ...

[Abstract View](#) | [Full Article View](#) | DOI: 10.17352/ams.000036

[Open Access](#) | [Research Article](#) | PTZAID:AMS-7-131

Biomonitoring of aquatic habitat using Apodu Dam in Malete, Moro local government area of Kwara state Nigeria as a case study

Published On: March 21, 2023 | Pages: 006 - 013

Author(s): Akanbi-Gada Mariam Abiola*, Owoleke Veronica Amina, Oluwatobi AS and Abdul-Majeed Oyejimi Oyeleke

Water bodies such as dams are an essential part of the ecosystems and the Apodu dam, a Local Government Area of Kwara State supplies water for the populace of Malete. The water is used for both domestic and agricultural purposes. Given the proposed rural development in the catchment area of the Apodu dam, it becomes imperative therefore to do extensive biomonitoring o ...

[Abstract View](#) | [Full Article View](#) | DOI: 10.17352/ams.000031

[Open Access](#) | [Research Article](#) | PTZAID:AMS-7-130

Disabled industrial traumatic brain injury of members of vessel's crew in water transport of the Northern Water's Basin

Published On: January 19, 2023 | Pages: 001 - 005

Author(s): Shapovalov KA* and Shapovalova PK

Introduction: Epidemiological study of Traumatic Brain Injury (TBI) and the improvement of the organizational capabilities of medical care at all stages of its provision plays an important role in forecasting and social and labor rehabilitation of the sailing crew. Planning the development of the neurosurgical service of port hospitals is impossible without knowing th ...

[Abstract View](#) | [Full Article View](#) | DOI: 10.17352/ams.000030

Review Article

[Open Access](#) | [Review Article](#) | PTZAID:AMS-7-135

Singlet-excited dioxygen O₂(a¹_g) and organic pollutants in marine waters beneath the Sun

Published On: May 05, 2023 | Pages: 025 - 033

Author(s): BF Minaev*

The ground state dioxygen has a triplet spin state O₂(X_{3g}). The singlet excited O₂(a_{1g}) dioxygen possesses an excess energy of 22 kcal/mole and is highly reactive with respect to organic matter since all organic molecules have also singlet ground states with all spins paired; their reactions with O₂(a_{1g}) are not forbidden by spin selection. The chromophoric polluta ...

[Abstract View](#) | [Full Article View](#) | DOI: 10.17352/ams.000035

[Open Access](#) [Review Article](#) PTZAID:AMS-7-134

Review on the role of women along the aquaculture value chain in Kenya

Published On: April 22, 2023 | Pages: 021 - 024

Author(s): Mercy Chepkirui*, Paul Sagwe Orina, Tonny Orina, Cecilia Githukia, Jared Ochingo and Judith Kemunto Achoki

Aquaculture is perceived as masculine work in most regions despite several years of women's involvement in the sector. Women participate in almost all activities of the aquaculture value chain such as pond construction, sorting of seeds, fertilization of ponds, making and mending of fishing gears, fish harvesting, processing, value addition, transport, and marketing. ...

[Abstract View](#) | [Full Article View](#) | DOI: 10.17352/ams.000034

Short Communication

[Open Access](#) [Short Communication](#) PTZAID:AMS-7-133

Sailing mega-solar rafts for huge renewable energy in the low-latitude Pacific Ocean

Published On: April 04, 2023 | Pages: 017 - 020

Author(s): Takaji Kokusho*

An innovative idea of exploiting huge solar energy in the low-latitude Pacific Ocean using wind-sailing mega-solar rafts is reviewed to emphasize its great potential for human renewable energy resources besides currently promoted offshore

wind energy. The basic technologies including energy-transportation are already available but necessary to be developed commercial ...

[Abstract View](#) | [Full Article View](#) | DOI: 10.17352/ams.000033

Mini Review

[Open Access](#) | [Mini Review](#) | PTZAID:AMS-7-132

Orca reproduction in captivity: A review of the science, ethics and welfare concerns

Published On: March 31, 2023 | Pages: 014 - 016

Author(s): Dante McGillian*

Orca whales, also known as killer whales, are highly social and intelligent animals that have captured the public's fascination for decades. However, the use of orca whales in marine parks and aquariums for human entertainment has sparked controversy about their welfare and ethical considerations. Captive breeding programs have been developed for several marine specie ...

[Abstract View](#) | [Full Article View](#) | DOI: 10.17352/ams.000032