Water Tank Model Testing!

De- 208

KITAZAWA LAB.

[Seafood Production in Ocean]

Underwater Technology Research Center

http://mefe.iis.u-tokyo.ac.jp/index_e.html

Marine Ecosystem Engineering

Dept. of Systems Innovation, Graduate School of Engineering

Environment and Marine Food Production

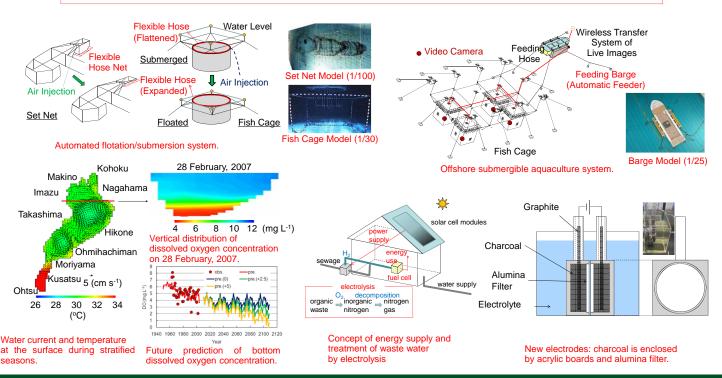
Toward Sustainable and Effective Marine Food Production System

Based on hydrodynamics, we study the following subjects by means of numerical simulation, water tank model test, and field investigation in collaboration with many research organizations and private companies.

- 1. Sustainable and effective marine food production system
- 2. Future prediction of the ecosystem of lakes and coastal seas by hydrodynamic and ecosystem coupled model
- 3. Treatment of wastewater by electrolysis

Key words

- Sustainable and effective marine food production system: automation of fishery/high productivity/automated net-hauling system in set net fishery/fisheries resource conservation/automated feeding system in aquaculture/automated flotation-submersion system/increasing rate of seafood self-sufficiency/employment of young workers
- Future prediction of the ecosystem of lakes and coastal seas: eutrophication/climate change/hydrodynamic and ecosystem coupled model/Tokyo Bay/Lake Biwa/Lake Kasumigaura/Lake Ikeda/Caspian Sea/future prediction
- Treatment of wastewater by electrolysis: oxygen supply/hydrogen supply/decomposition of dissolved inorganic nitrogen/charcoal electrode/dielectric electrode



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