

Mitigation Technique for Eutrophicated Sea Areas and Tsunami Disaster

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A stone tablet warns residents not to build homes below it.



Water Purification Channel in Amagasaki Canal



JYUNKAN of Nutrients in Amagasaki sea areas

Content:

Japanese coastal areas are one of the most developed places on the earth. This is where people extract mineral resources, catch fish, develop aquaculture, engage in recreational activities, launch construction projects, etc. This is why it is necessary to organize the use of coastal resources in such way so it would not damage the natural environment and marine ecosystems. In the meantime, Japan has frequently suffered from tsunami damage. The tsunami following the 2011 Great East Japan Earthquake caused unprecedented damage. The Nankai Trough Megaquake are predicted to cause devastating tsunami damage. Our study aims to develop water environment improvement technology for closed sea areas and mitigation of tsunami disaster.

- 1) Development of Concrete contained Amino Acid for Mitigation of Enclosed Sea
- 2) Development of Environmental Quality Improvement Port and Channel with Citizen in Amagasaki Canal, Japan
- 3) The after-effects of hypoxia exposure on the clam *Ruditapes philippinarum* in Osaka Bay, Japan
- 4) Development of supporting system for pre-recovering for anti-Nankai Trough Megaquake Tsunami disaster
- 5) Historical Study of Earthquake Tsunami
- 6) Learning Method of Environment Conservation and Disaster Prevention

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