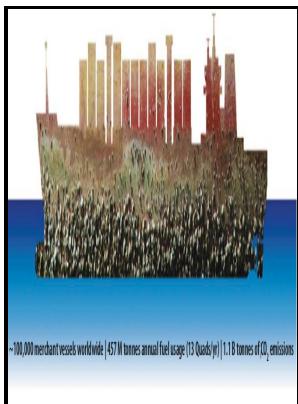


Importance of diatoms as marine fouling organisms.

Portsmouth Polytechnic, Dept. of Biological Sciences - The importance of diatoms as marine fouling organisms. (1983 edition)



~100,000 merchant vessels worldwide | 457 M tonnes annual fuel usage (3 Quads/yr) | 1.18 tonnes of CO₂ emissions

Description: -

-importance of diatoms as marine fouling organisms.

-importance of diatoms as marine fouling organisms.

Notes: Thesis (Ph.D.) - Portsmouth Polytechnic, 1983.

This edition was published in 1983



Filesize: 52.48 MB

Tags: #MARINE #FOULING

Brief review of the role of marine algae in biodeterioration

The anti-biofouling effect against barnacles of a super-hydrophilic and high-oleophobic surface of treated aluminium. Static assays have demonstrated that hydrophobic surfaces tend to promote more non-specific adsorption compared with hydrophilic surfaces.

The importance of diatoms as marine fouling organisms. (1983 edition)

The anti-fouling character of polymer brushes against marine organisms was investigated by performing settlement tests with barnacle cypris larvae and mussel larvae in their adhesion period, as well as a marine bacteria colonization test. Soft Matter 9, 5138—5148 2013.

The battle against marine biofouling: a historical review

Diatoms are responsible for 20% of global carbon fixation and 40% of marine primary productivity.

Abstract: Marine Diatoms and Their Role in the Ecosystem (2010 AAAS Annual Meeting (18

Two contributing factors to the lack of correlation are the interconnected nature of control mechanisms over different cellular processes, and the lack of correspondence between mRNA and protein levels resulting from translational regulation. It is also misleading to assume that successional colonization of a surface necessarily implies a causal relationship between one stage and the next and even more misleading to assume that controlling or blocking initial stages of colonization, such as biofilm formation, will reduce or eliminate macrofouling.

The importance of diatoms as marine fouling organisms. (1983 edition)

The cypris larvae trapped at the water surface were circulated by applying water droplets once every day.

The importance of diatoms as marine fouling organisms. (1983 edition)

Because we selected photopositive and actively swimming individuals for the settlement assay, they remained active even after the 10-day test period, while the weak cypris larvae are usually starved to death in short periods. It was hypothesized that nanoforce gradients caused by variations in topographical feature geometry will induce stress gradients within the lateral plane of the cell membrane of a settling cell during initial contact.

Related Books

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