REGULATION ON SHIPS NAVIGATION TO REDUCE RISK OF MARINE ACCIDENTS IN FAVOUR OF MARINE AND COASTAL ECOSYSTEMS ON THE AEGEAN COASTS IN TURKEY

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Abstract

A regulation on ships navigation was put into force in order to reduce risk of marine accidents after a ship grounding on Çavuş Island, SW Turkey. Following the regulation established in February 2001, certain type and size ships are obliged to navigate out of ecologically sensitive marine and coastal areas in Ayvalık, Foça and Bodrum Peninsula on the Aegean coasts of Turkey.

Keywords : Coastal Management, Conservation, Pollution, Aegean Sea, Water Transport.

Introduction

Oil pollution by ship accidents require clean-up when spilled oil comprises persistent oils such as crude oil, fuel oil, heavy diesel oil and lubricating oil [1]. SAD-AFAG completed a field study on endangered Mediterranean monk seals Monachus monachus and habitats on the Bodrum Peninsula in 1996 [2] while, interestingly, a heavy but local oil spill was identified on rocky cliffs of Çavuş Island by the first author during the implementation of this project. A sample from the pollution was analyzed by the Ministry of Environment (MoE) who confirmed the pollution was origin of both aliphatic and aromatic hydrocarbons [3]. According to witnesses, a coaster grounded on NW coasts of Çavuş Island in the summer of 1996 and pollution occurred by an oil spill from the ship, possibly bilge comprising high density and aged lubricating oils in a few hundred tons quantity, which seriously affected coasts of Çavuş Island and Gümüşlük, a tourist attraction village at 2nm. distance. The fact that Çavuş Island holds important monk seal caves in whole Bodrum Peninsula with surrounding 21 islands & islets [2] forced SAD-AFAG to take action for an oil spill clean-up operation to save marine and coastal ecosystem with special emphasis to endangered monk seals in the area.

Methods

SAD-AFAG, the Friends of Bodrum Society and the MoE have completely cleaned both the oil sludge floating on the sea surface & inside a cave and cliffs & cobble beach on Çavuş Island. 137 tons of oil sludge was collected via labor intensive cleaning methods and dumped into a suitable terrestrial dumping site in 1997 [4]. After clean-up was completed, SAD-AFAG deemed necessary to bring a permanent solution to reduce the risk of further marine accidents. First an analysis was made among SAD-AFAG members and a gap was identified on environmental safety; there was no regulation to let ships avoid to navigate in the narrow waterways near coasts where also biological diversity is rich and/or endangered species inhabit. Therefore, SAD-AFAG proposed Undersecretariat for Maritime Affairs (UMA), the competent maritime authority, to regulate the navigation of ships prohibiting routing through coastal waters between mainland and adjacent islands on Ayvalık, Foça and Bodrum Peninsula in 08.02.1999.

Results

The proposal of SAD-AFAG was thoroughly examined by UMA comparing similar and successful examples in the world. After having the opinions from the relevant organizations, it was finally evaluated affirmatively and the Navigation, Hydrography and Oceanography Dept. (NHOD) announced the new regulation on “areas to be avoided by ships”. According to this regulation, navigation is prohibited within the indicated bounded areas for cargo vessels greater than 300 GRT and all vessels carrying dangerous goods in order to avoid risk of pollution and damage to environment. This interprets that navigation between the mainland and adjacent islands in Ayvalık, Foça and Bodrum Peninsula marine areas is restricted for the purpose of protecting marine life with special emphasis to endangered monk seals and their habitats. It was published in the Maritime, General Directorate of Environmental Pollution Prevention and Control. October 1996. Ankara: 1-2.

References