



Consiglio Nazionale delle Ricerche

ISMAR - Istituto di Scienze Marine

Sede Secondaria di Roma

Via Fosso del Cavaliere 100

00133 Roma, Italy

Tel +39 06 45488634 Fax +39 06 45488291

direzione@ismar.cnr.it

C.F. 80054330586 - P.IVA 02118311006



Seminar

Mohammad Daliri

University of Napoli Federico II

11:00 - 30 Sep 2020 - Webex platform

Title

An investigation into the role of a thermal creek in the spatial distribution of Arsenic in the Bagnoli Bay marine sediments

Abstract

The Bagnoli Bay (Napoli, Southern Italy) has been long subjected to environmental contamination, due to a large steel plant, which occupied a significant part of its territory for nearly one century. However, it is also part of a wide volcanic area, where an active caldera exists. An environmental survey of nearshore and offshore marine sediments carried out in 2017, revealed concentrations of Arsenic nearly seven times higher than those permitted by law. These concentrations showed not necessarily correlated with the anthropogenic sources, thereby requiring supplementary analyses. Via multidisciplinary numerical tests conducted with the software package Delft-3D, this paper investigates the role of a creek that has been long used to convey thermal water from the upstream volcanic area to the coast. The model results compares reasonably well with marine sediments survey.

Venezia
Arsenale - Tesa 104 - Castello 2737/f
30122 VENEZIA
Tel +39 041 2407927
Fax +39 041 2407930
direzione@ismar.cnr.it

Lerici
Forte Santa Teresa
19032 SP
Tel +39 0187 978300
Fax +39 0187 970585
segreteria@sp.ismar.cnr.it

Napoli
Calata Porta di Massa,
80133 NA
Tel +39 081 5423846
Fax +39 081 5423887
segreteria@na.ismar.cnr.it

Bologna
Via P. Gobetti, 101
40129 BO
Tel +39 051 6398891
Fax +39 051 6398939
segreteria@bo.ismar.cnr.it

Trieste
Area Science Park
SS 14, Km 163,5 Ed. Q2
34149 Basovizza TS
Tel +39 040 3756871 -2
segreteria@ts.ismar.cnr.it