

10° Anniversario R/V ASTREA



ISPRA

Istituto Superiore per la Protezione
e la Ricerca Ambientale

Il ruolo della nave ASTREA nelle attività di monitoraggio e caratterizzazione ambientale

ISPRA

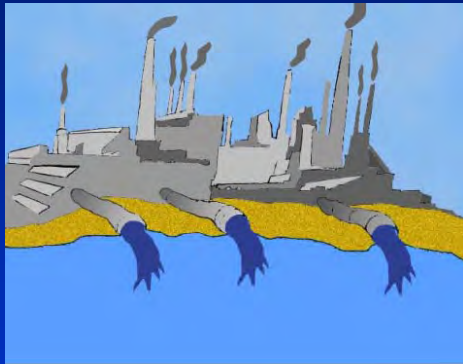


25 marzo 2003

Prima campagna oceanografica R/V "ASTREA"



Attività antropiche in ambiente marino



Industrie

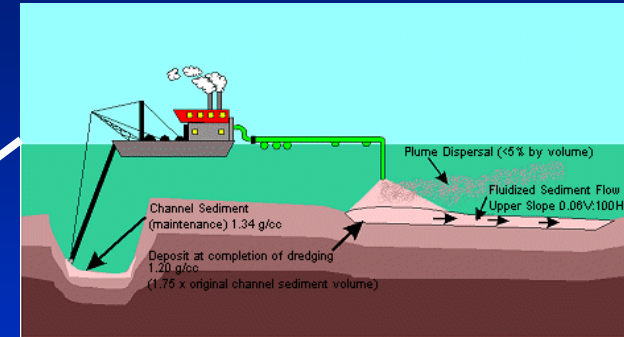


Porti

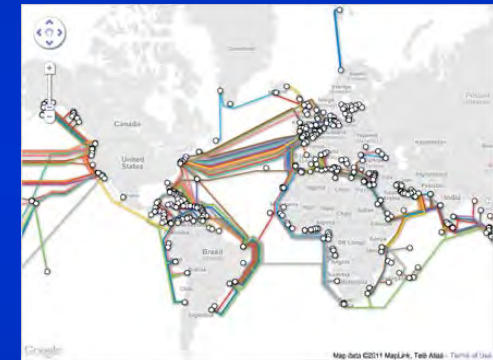


Rigassificatore Offshore

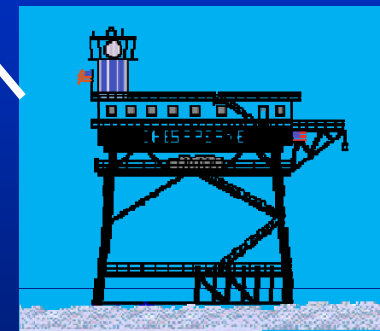
PRESSIONE



Dragaggio a fini di ripascimento

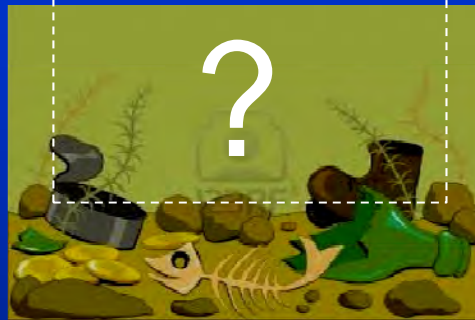


Cavi e condotte



Piattaforme Offshore

IMPATTO



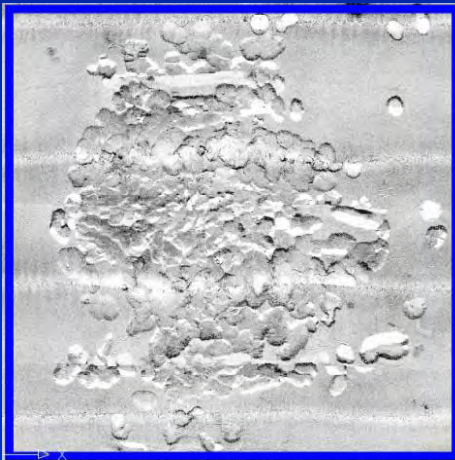
Attività di caratterizzazione e monitoraggio

Principali turbative generate:

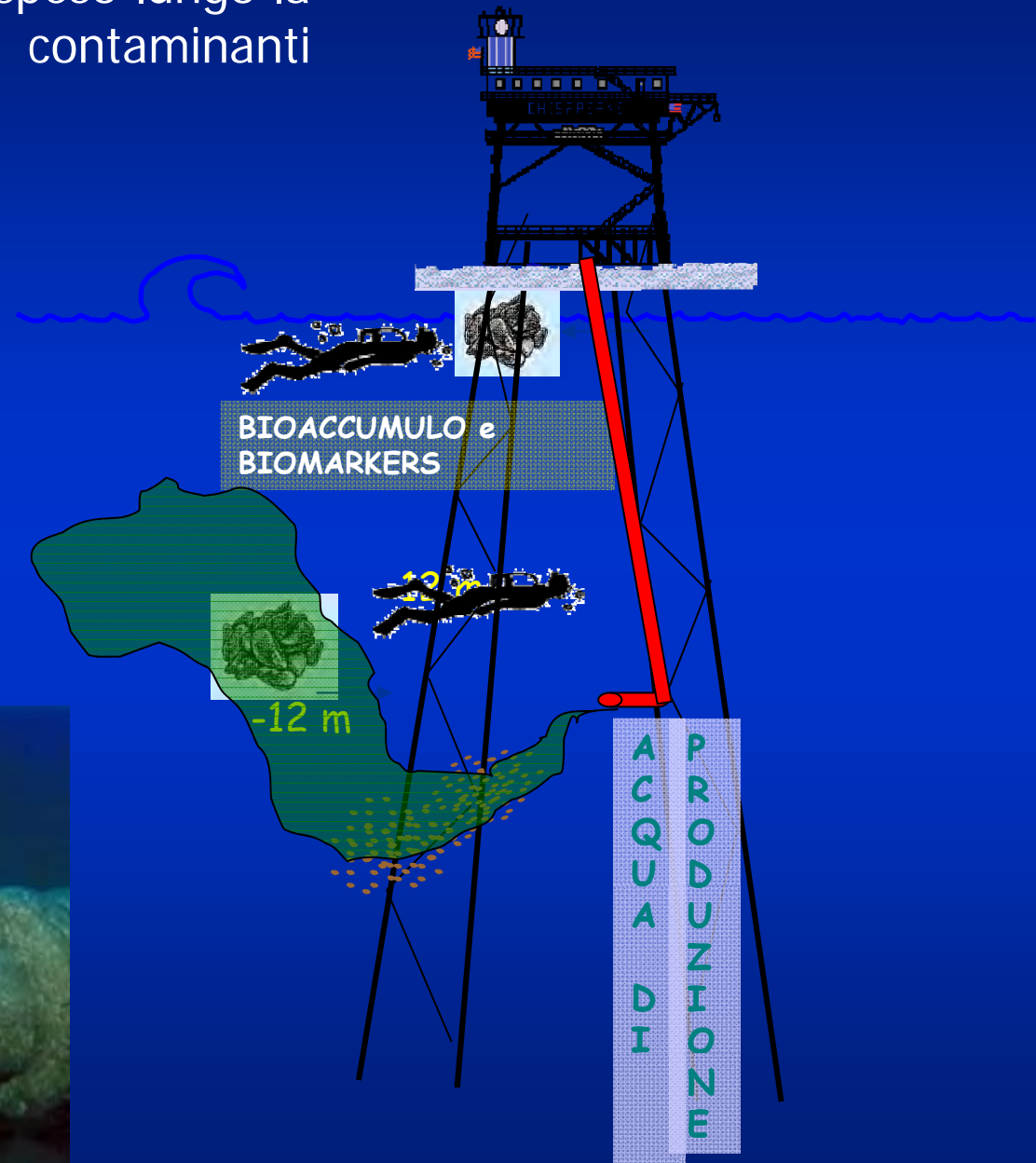


- **Modificazioni morfologiche e tessiturali del substrato**
- **Alterazione del particolato sospeso lungo la colonna d'acqua e potenziali contaminanti in soluzione**
- **Modificazioni del popolamento bentonico e ittico demersale**

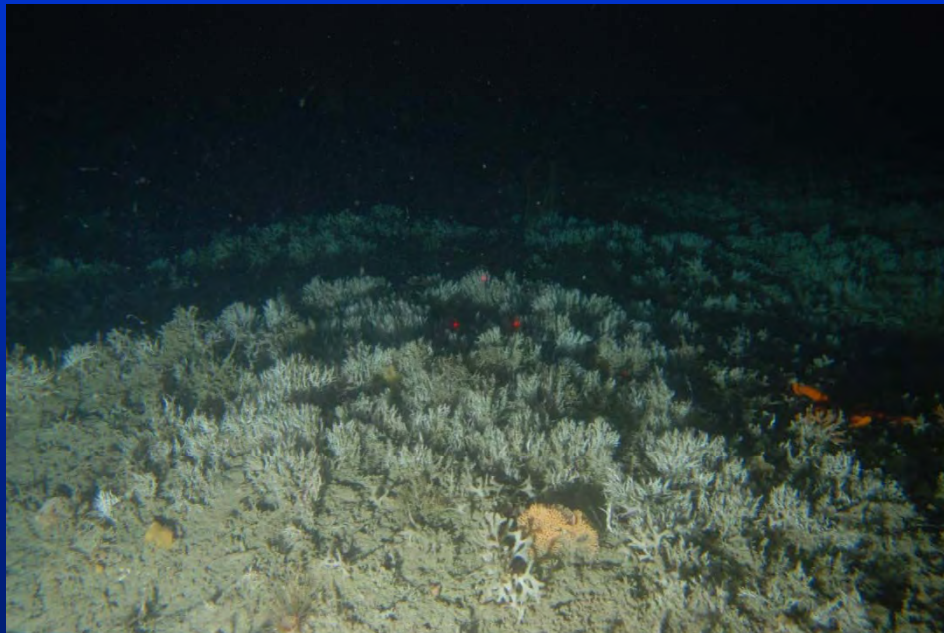
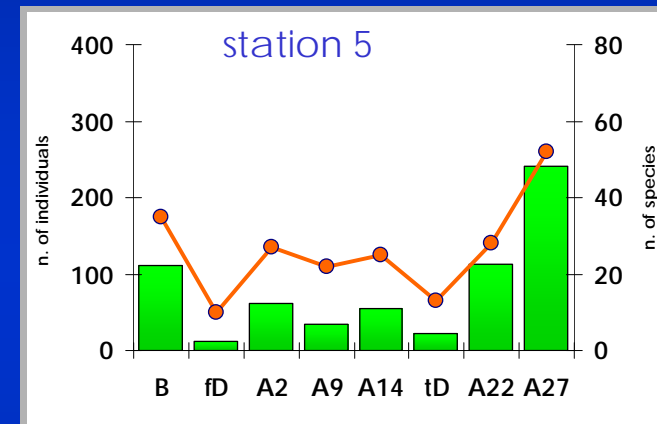
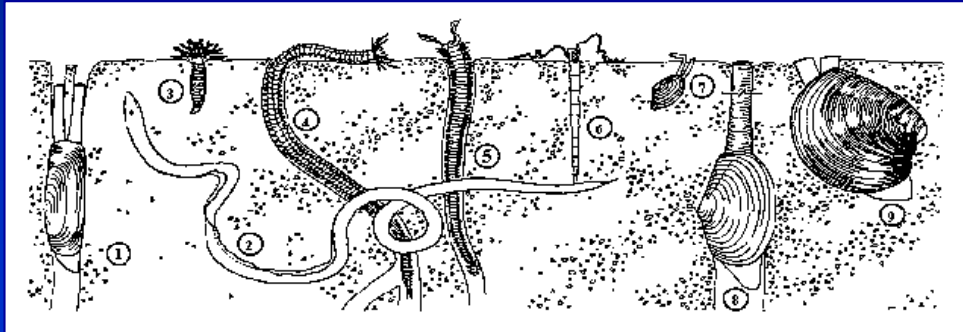
- Modificazioni morfologiche del substrato



Alterazione del particolato sospeso lungo la colonna d'acqua e potenziali contaminanti in soluzione

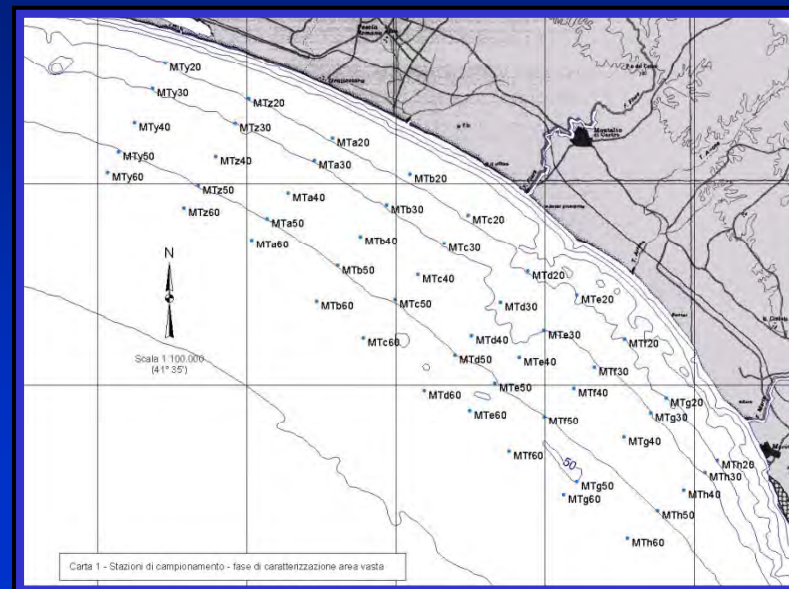


Modificazioni del popolamento bentonico



L'ASTREA PERMETTE TUTTO QUESTO!

- programma di navigazione e posizionamento



L'ASTREA PERMETTE TUTTO QUESTO!

- Caratteristiche fisico-chimiche dei sedimenti



L'ASTREA PERMETTE TUTTO QUESTO!

- Popolamento bentonico



L'ASTREA PERMETTE TUTTO QUESTO!

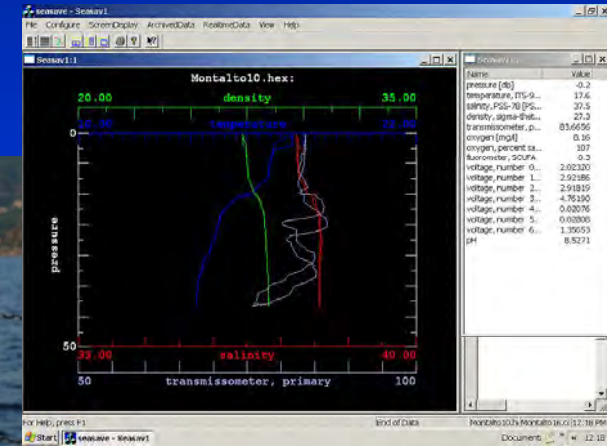
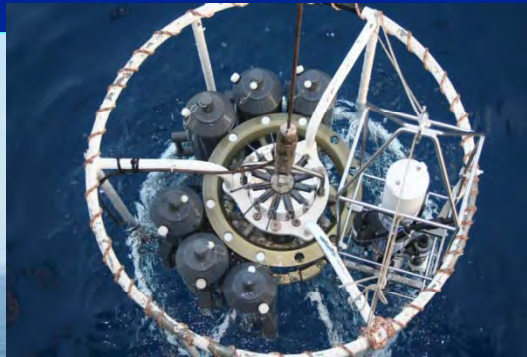
- Prelievo e trapianto di mitili

Biomonitoraggio (Mussel Watch)



L'ASTREA PERMETTE TUTTO QUESTO!

- Caratteristiche idrologiche e dinamiche delle masse d'acqua

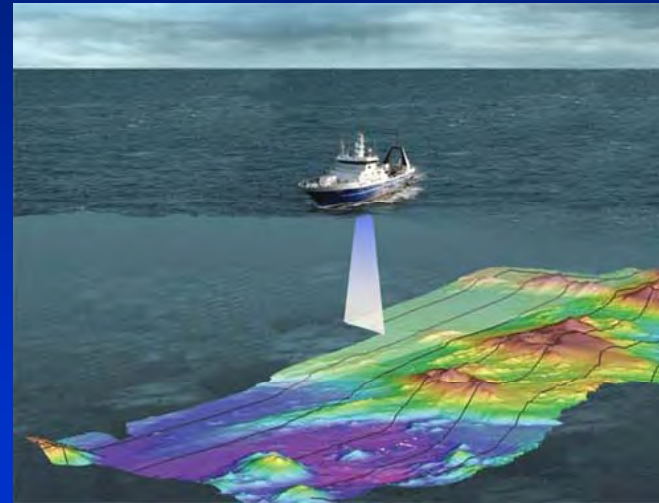


L'ASTREA PERMETTE TUTTO QUESTO!

Morfologia, batimetria del fondo

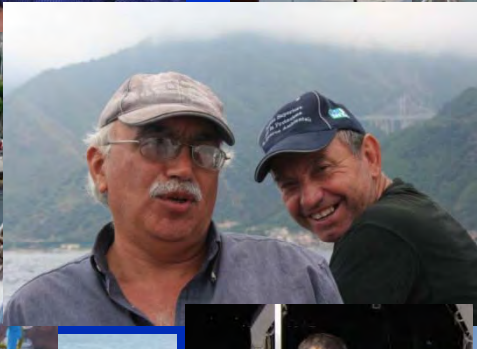
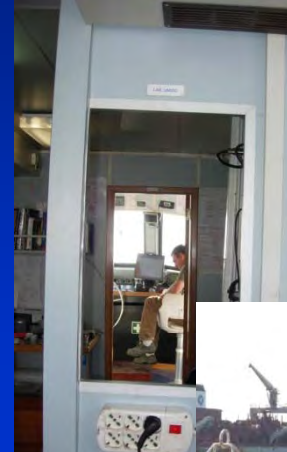
Dal 2011

Multibeam per rilievi
batimetrici ad alta risoluzione



L'ASTREA PERMETTE TUTTO QUESTO!

Professionalità
Personale specializzato



19.05.2004

..e ora un po' di numeri!



Oltre 300 Campagne oceanografiche di caratterizzazione e monitoraggio

- **n. 1725 campioni di sedimento con box corer, 14 m³ di sedimento prelevato**
- **n. 620 campioni di benthos, n. 1240 bennate, 62 m³ di sedimento setacciato**
- **n. 840 stazioni di prelievo mitili e 230 di trapianto**
- **n. 1900 stazioni e 16.800 l di acqua prelevata**
- **100 km di rilievi R.O.V.**

..e qualche prodotto!



(Novembre, 2006)



(Dicembre, 2012)

ORIGINAL ARTICLE

Relict sand dredging for beach nourishment in the central Tyrrhenian Sea (Italy): effects on benthic assemblages

Barbara La Porta, Monica Targusi, Loretta Lattanzi, Paola La Valle, Daniela Paganelli & Luisa Nicoletti

ISPRA formerly ICRAM, Central Institute for Marine Research, Rome, Italy

Journal of Coastal Research SI 64 1380 - 1384 ICS2011 (Proceedings) Poland ISSN 0749-0208

Physical effects related to relict sand dredging for beach nourishment in the Tyrrhenian sea: the Anzio case

O. Nonnis, D. Paganelli, R. Proietti and L. Nicoletti

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Journal of Coastal Research SI 56 1262 - 1266 ICS2009 (Proceedings) Portugal ISSN 0749-0258

An Environmental Monitoring Proposal Related to Relict Sand Dredging for Beach Nourishment in the Mediterranean Sea

L. Nicoletti†, D. Paganelli†, P. La Valle†, C. Maggi†, L. Lattanzi†, B. La Porta†, M. Targusi and M. Gabellini†

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Italian Journal of Zoology, 2011, 1First, 1-14

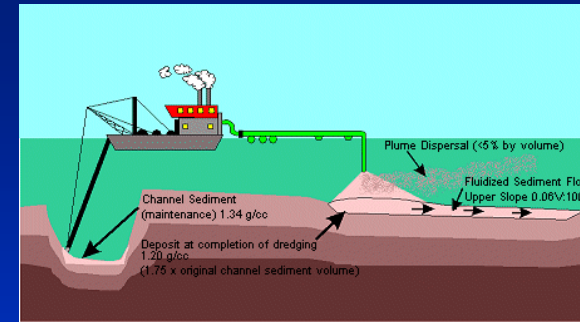


Ecology and spatial distribution of selected polychaete species from the Italian continental shelf

B. LA PORTA^{1*}, P. TOMASSETTI¹, S. LOMIRI¹, S. MARZIALETTI², D. VANI¹, M. PENNA¹, P. LANERA¹, & L. NICOLETTI¹

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(Received 26 June 2010; accepted 12 May 2011)



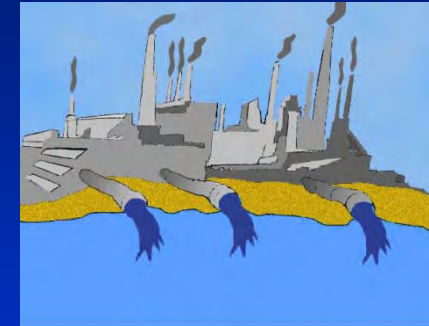
Dragaggio a fini di ripascimento



Benthic foraminifera from the coastal zone of Baia (Naples, Italy): Assemblage distribution and modification as tools for environmental characterisation

Luisa Bergamin *, Elena Romano, Maria Grazia Finoia, Francesco Venti, Jessica Bianchi, Andrea Colasanti, Antonella Ausili

ISPR, Institute for the Environmental Protection and Research, Via di Casalotti, 300, 00166 Rome, Italy



Industrie



Correlation between textural characteristics of marine sediments and benthic foraminifera in highly anthropogenically-altered coastal areas

Maria Celia Magno *, Luisa Bergamin, Maria Grazia Finoia, Giancarlo Pierfranceschi, Francesco Venti, Elena Romano

ISPR, Italian National Institute for Environmental Protection and Research, Via di Castel Romano, 100-00128, Rome, Italy



Porti



The impact of the Bagnoli industrial site (Naples, Italy) on sea-bottom environment. Chemical and textural features of sediments and the related response of benthic foraminifera

Elena Romano *, Luisa Bergamin, Antonella Ausili, Giancarlo Pierfranceschi, Chiara Maggi, Giulio Sesta, Massimo Gabellini

ISPR, Institute for the Environmental Protection and Research, Via di Casalotti, 300 00166 Rome, Italy

First record of *Scalibregma celticum* (Annelida: Polychaeta: Scalibregmatidae) in Italian marine waters

SERENA LOMIRI, DANILO VANI, PAOLO TOMASSETTI, BENEDETTA TRABUCCO, CHIARA MAGGI
AND ORNELLA NONNIS
ISPRA, National Italian Institute for Environmental Protection and Research, Via di Casalotti 300, 00166 Rome, Italy

Effects of laying power cables on a *Posidonia oceanica* (L.) Delile prairie: the study case of Fiume Santo
(NW Sardinia, Italy) 1

Effects of laying power cables on a *Posidonia oceanica* (L.) Delile prairie: the study case of Fiume Santo (NW Sardinia, Italy)

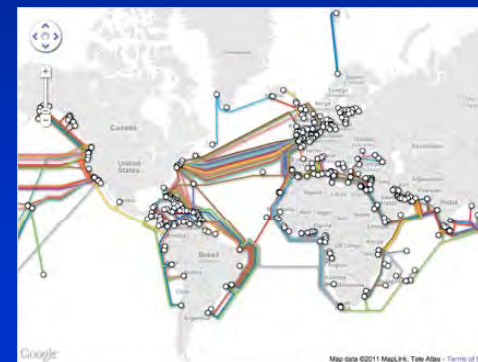
Tiziano Bacci †, Sante Francesco Rende †, Ornella Nonnis †, Chiara Maggi †, Alessia Izzi †, Massimo
Gabellini †, Francesca Massara ∞, Lorenzo Di Tullio ∞

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www.cerf-jer.org



Cavi e condotte

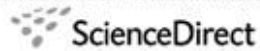
WORST CASE METHOD, QUALITATIVE ASSESSMENT AND QUANTITATIVE ASSESSMENT TO INTERPRET TOXICITY DATA

Loredana Manfra*, Fulvio Onorati, Andrea Tornambé, Chiara Maggi, Ornella Nonnis and Massimo Gabellini

Institute for Environmental Protection and Research (ISPRA), Rome, Italy



Available online at www.sciencedirect.com



CHEMOSPHERE

Chemosphere 69 (2007) 554–560

www.elsevier.com/locate/chemosphere

Application of nano-FIA-Direct-EI-MS to determine diethylene glycol in produced formation water discharges and seawater samples

Achille Cappiello ^{a,*}, Giorgio Famigliani ^a, Pierangela Palma ^a, Elisabetta Pierini ^a, Helga Trufelli ^a, Chiara Maggi ^b, Loredana Manfra ^b, Michela Mannozi ^b

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Piattaforme Offshore

Marine Environmental Research 66 (2008) 24–26



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Marine Environmental Research

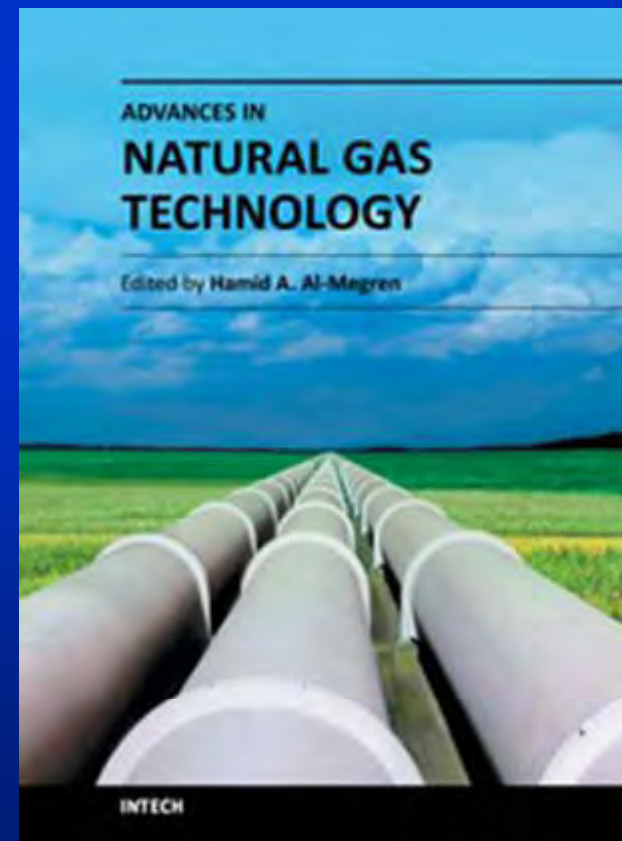
journal homepage: www.elsevier.com/locate/marenvrev

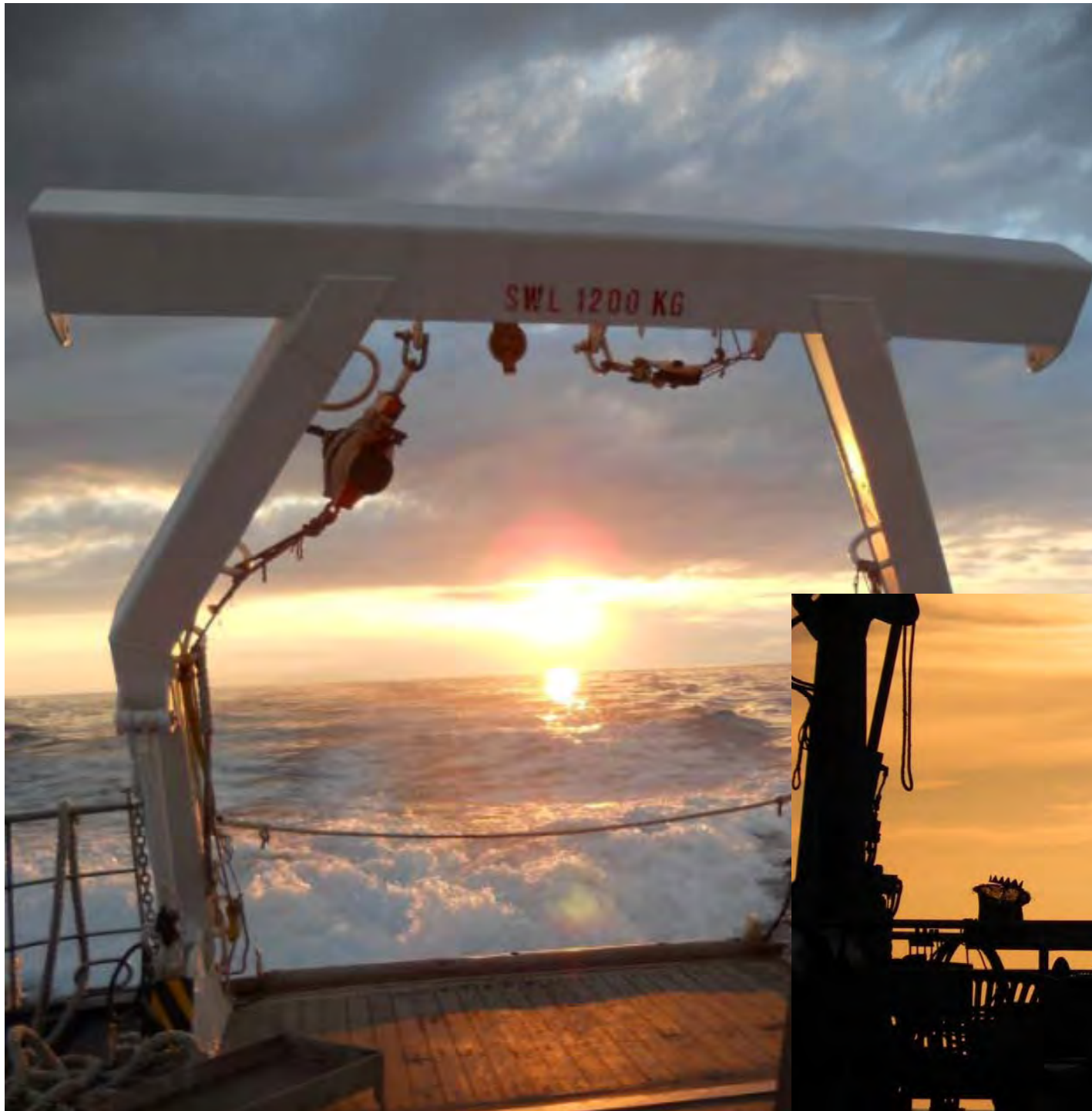


Seasonal variations of exposure biomarkers, oxidative stress responses and cell damage in the clams, *Tapes philippinarum*, and mussels, *Mytilus galloprovincialis*, from Adriatic sea

Raffaella Bocchetti ^a, Claudia Virno Lamberti ^b, Barbara Pisanelli ^a, Erika M. Razzetti ^a, Chiara Maggi ^b, Barbara Catalano ^b, Giulio Sesta ^b, Giacomo Martuccio ^a, Massimo Gabellini ^b, Francesco Regoli ^{a,*}

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^b ICRAM, Istituto Centrale per la Ricerca Scientifica e Tecnologica Applicata al Mare, Rome, Italy

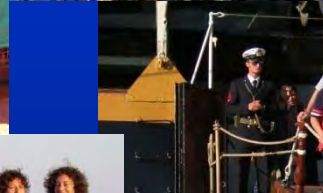




Grazie per
l'attenzione



gli autori



20.05.2004

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