



*Consiglio Nazionale delle Ricerche*

# **ITALIAN UPDATE 2009**

## **National Council of Research (CNR)**

**M. Di Bitetto & G. Magnifico**  
*Operative Programming Office*

11<sup>th</sup> **E**uropean **R**esearch **V**essel **O**perators Annual Meeting  
Copenhagen - Denmark  
14 – 15 May 2009

# "Urania" Research Vessel



## Main technical features:

- Category: Oceanic
- Tonnage: 1115 GRT
- Length: 61.3 m
- Breadth: 11.1 m
- Height: 5.3 m
- Draught : 3.6 m
- Max speed: 13 Knots
- Average speed: 11.0 Knots
- Autonomy: 45 days
- Crew: 16 people
- Scientists: 20 people
- Construction year: 1992

Year	N. surveys	Days at sea
2008	20	309
2009	18	326

# "Urania" oceanographic surveys 2008

Survey	Days at sea	Study area	Partners	Funds
VECSES1/ VECSES2	16	Adriatic Sea	ISMAR-CNR; IAMC-CNR; OGS; ICRAM ; Trieste Univ.; SZN; Stanford Univ.	EU/National
IONIO-SESAME 1 IONIO-SESAME 2	11	Ionian Sea	SZN; ENEA; IAMC-CNR; IBF-CNR; ISMAR-CNR; OGS; Co.N.I.S.Ma.; ISAC; CEFREM, ICRAM	EU
SESAME/KM3_1 SESAME/KM3_2	15	Sicily Strait and Ionian Sea	CNR-IAMC; ENEA; CNR-IBF; INFN; SZN	EU
SESAME MOC 08_1	12	Western Mediterranean Sea	ENEA; ISMAR-CNR; SZN; CNRS	EU
SESAME/KM3	5	Sicily Strait and Ionian Sea	IAMC-CNR; ENEA; CNR-IBF; INFN; SZN	EU
CALAMARE	28	Ionian Sea	Univ. Parma; Univ. Bologna; OGS; Univ. Brest; Univ. Roma Tre; Technische Universität München	EU/National
SASSI-08	22	Southern Adriatic Sea	IFREMER; RHUL; Univ. Kiel	EU/National
GARGANO 2008	7	Central and Southern Adriatic Sea	ISMAR-CNR	National
ESF-BIOFUN 08	14	Southern Tyrrhenian Sea and Ionian Sea	CNR-IRMA; Univ. Marche; ICRAM; DIPTERIS-Univ. Genova; CSIC-ES; UGent-BE; NIOO-NL; NIOO-NL; NUIG-IE; CEFREM-FR; HCMR-GR; SNG-DE	EU
MEDSUDMED-08	20	Sicily Strait	FAO; Marine Biology Research Centre Arab; MBRC; MCFS; INSTM; VNIRO	International/National

# "Urania" oceanographic surveys 2008

Survey	Days at sea	Study area	Partners	Funds
ALIF 2008	17	Sicily Strait	IAMC-CNR; ISMAR-CNR; ISAC-CNR; Univ. Palermo; Univ. Malaga; VNIRO; I.E.O.; Univ. Vigo	National
NEARETS-2008	35	Gulf of Cadiz	FFCUL; AWI; UBO-UMR; INGV; TFH; UGR; IM; CNRST; XISTOS	EU
SESAME/KM3_1/ SESAME/KM3_2	13	Sicily Strait and Ionian Sea	CNR-IAMC; ENEA; CNR-IBF; INFN; SZN	EU
IONIO-SESAME 1 IONIO-SESAME 2	5	Ionian Sea	SZN; ENEA; IAMC-CNR; IBF-CNR; ISMAR-CNR; OGS; Co.N.I.S.Ma.; ISAC; CEFREM, ICRAM	EU
MIDDLE	14	Eastern Mediterranean Sea	TUBRAUN.IM; CNR-IAMC; ICP-CSIC; LBM; FGG; UMH; CoNISMa; IFREMER	EU/National
VECSES1/ VECSES2	10	Adriatic Sea	ISMAR-CNR; IAMC-CNR; OGS; ICRAM; Trieste Univ.; SZN; Stanford Univ.	EU/National
ADR-02	14	Adriatic Sea and Ionian Sea	SZN; JRC Ispra; ISMAR-CNR; IAMC-CNR; HIM; IMB; Physical Faculty of Belgrad University; SEWA; Hydrometeorological Institute of Tirana	EU/National
MedCO08	22	Western Mediterranean Sea	ISMAR-CNR; IAMC-CNR; ISMAR-CNR; UniFi; Unitus	National
Zibibbo II	18	Sicily Strait	INGV; Univ. Roma - DST; Univ. Bologna DSTGA; IGAG-CNR	National
ARCO	11	Adriatic Sea	Univ. Erlangen; Univ. Marseille; Univ. Catania; ICRAM	EU

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# "Urania" oceanographic surveys 2009

Survey	Days at sea	Study area	Partners	Funds
ETYMES	15	Southern Tyrrhenian Sea	IAMC-CNR; Univ. Parthenope; Univ. Sannio; Univ. Camerino, Univ. Bremen, Imperial College London	National
VETIMER-3	8	Southern Tyrrhenian Sea	IAMC-CNR; IBF-CNR; ISMAR-CNR; IBP-CNR; SZN; Co.N.I.S.Ma.; ENEA; OGS	National
VELTUR09	7	Southern and Central Adriatic Sea	ISMAR-CNR; UNIVPM; Communication Technology	National
ADRIASEISMIC09	14	Southern Adriatic Sea	ISMAR-CNR; IAMC-CNR; Naval Research Laboratory (USA); Durham University (UK); University of Colorado (USA); Office of Naval Research (USA)	International/EU/ National
IMPACT-09	10	Northern Ionian Sea and Southern Adriatic Sea	ISMAR-CNR; Co.N.I.S.Ma.	EU/National
RedSea-09	32	Red Sea	ISMAR-CNR; Univ. Roma; INGV; Univ. Lille1 (Fr); Ifremer DRO/GM (Fr), Institute of Geosciences (D), Univ. Cardiff (UK)	EU
SOM-09/RISA-09	10	Northern Adriatic Sea	ISMAR-CNR; Oregon State Univ. (USA); Univ. Padova	EU/National
TYRRMOUNTS 09	27	Tyrrhenian Sea, Sicily Strait and Southern Ionian Sea	ISMAR-CNR; INGV; INFN; IAMC-CNR; ENEA, IBF-CNR, Univ. Genova	EU/National
ALDEBARAN	29	Western Mediterranean Sea	IIA-CNR; USEPA (USA); Univ. Michigan (USA); IFREMER (Fr); IJS (SLO)	National

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11<sup>th</sup> ERVO Annual Meeting  
Copenhagen (DK), 14–15 May 2009

# "Urania" oceanographic surveys 2009

Survey	Days at sea	Study area	Partners	Funds
TIRRENO 2009	14	Southern and Central Tyrrhenian Sea	IAMC-CNR; Fishery Acoustic Laboratory; VNIRO	National
BANSIC 2009	20	Sicily Strait and Southern Ionian Sea	IAMC-CNR; VNIRO; Univ. Vigo (ES)	National
PRIMI	33	Italian Seas	ISAC-CNR; INGV; ENEA; Telespazio s.p.a., ASI, Univ. Piemonte Orientale; Univ. Bologna,; IMAR-CNR; Flyby s.r.l.; ACS; Innova	National
MIDDLE&MAMBA	14	Souther Ionian Sea	IAMC-CNR; ESF-MIDDLE partners; CE-MAMBA partners	EU
MARMARA2009	21	Sea of Marmara	ISMAR-CNR; INGV; ITU (Tukey); TUBITAK (Turkey); IFREMER (Fr); CEREGE - College de France (Fr)	EU
ESF-BIOFUN 09	17	Southern Tyrrhenian Sea and Ionian Sea	ISMAR-CNR; IAMC-CNR; UNIVPM; CSIC (ES); Ugent (BE); NIOO (NL); NUIG (IE); CEFREM (FR); HCMR (GR); SNG (DE)	EU
Sicily09	25	Sicily Strait and Sardinia Strait	IAMC-CNR; ISMAR-CNR; ISAC-CNR	EU/National
Secula	16	Northern Ionian Sea	IGAG-CNR; Univ. Mississippi; Univ. South Mississippi, NOAA-NIUST	National
MEDCOR	14	Sicily Strait	ISMAR-CNR; Univ. Malta; Malta Fisheries Centre ; Univ. Erlangen; IFM Geomar; Univ. Marseille; Univ. Catania; Univ. Trieste; ICRAM	EU/National

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# "Dallaporta" Research Vessel



## Main technical features:

- Category: Regional
- Tonnage: 285 Tons
- Length: 35.3 m
- Breadth: 7.7 m
- Height: 4.1 m
- Draught: 3.0 m
- Speed: 14 Knots
- Drive system: 1100 CV
- Crew: 8 people
- Scientists: 12 people
- Construction year: 2001

Year	N. surveys	Days at sea
2008	28	299
2009	26	303

# "Dallaporta" oceanographic surveys 2008

Survey	Days at sea	Study area	Partners	Funds
ENI-08	2	Northern Adriatic Sea	ISMAR-CNR	National
ADRICOSM-STAR (ADRI-STRA)	12	Southern Adriatic Sea	INGV; OGS; ENEA; ISMAR-CNR; ISAC-CNR	National
VECTOR-AM6	7	Southern Adriatic Sea	VECTOR partners	National
SARDONE	10	Southern Adriatic Sea	IFREMER; Hellenic Institute for Marine Research Iraklion; CSIC; OGS; Univ. Marche	EU
ENI-08	2	Northern Adriatic Sea	ISMAR-CNR	National
SARDONE2008	18	Central Adriatic Sea	ISMAR-CNR; CSIC - Instituto Ciencias del Mar; HCMR; IFREMER; AZTI-Tecnitalia	EU
TARTANET	15	Central Adriatic Sea	Fondazione Cetacea ONLUS; Cerf Pesca srl	EU
VECTOR/ADRICOSM-STAR-08	6	Adriatic Sea	ISMAR-CNR; IAMC-CNR; OGS; ICRAM; UNIV-TS; UNIAN	National
ODAS2008	7	Ligurian Sea	CNR-ISSIA; CNR-ISMAR; ENEA; Acquario di Genova; DIST-Univ. Genova	EU
MARE 2008	11	Southern Thyrrenian Sea	DBAEM Univ. Messina; IAMC-CNR	National



# "Dallaporta" oceanographic surveys 2008

Survey	Days at sea	Study area	Partners	Funds
ENI-08	2	Northern Adriatic Sea	ISMAR-CNR	National
GUARDIA COSTIERA	4	Central Adriatic Sea	ISMAR-CNR; Italy's Coast Guards	National
ADRICOSM-STAR (ADRI-STRA)	18	Southern Adriatic Sea	INGV; OGS; ENEA; ISMAR-CNR; ISAC-CNR	National
SOLEMON	21	Adriatic Sea	Agricultural University of Tirana; Fisheries Research Institute of Slovenia; Institute of Oceanography and Fisheries; Institute of Marine Biology; ICRAM	International/ National
VECTOR-AM8	7	Southern Adriatic Sea	VECTOR partners	National
ADRICOSM-STAR (ADRI-STRA)	12	Southern Adriatic Sea	INGV; OGS; ENEA; ISMAR-CNR; ISAC-CNR	National
ENI-08	2	Northern Adriatic Sea	ISMAR-CNR	National
Echosurvey Adriatico	24	Adriatic Sea	FAO-ADRIAMED; Institute of Marine Biology; Fisheries Research Institute; CNR-ISAC	International/ National
ANCHEVA 2008	10	Sicily Strait	ISMAR-CNR; VNIRO; Univ. Vigo	National
MSM Libya 2008	25	Sicily Strait	FAO; Marine Biology Research Centre Arab; MBRC; MCFS; INSTM; VNIRO	International/ National

# "Dallaporta" oceanographic surveys 2008

Survey	Days at sea	Study area	Partners	Funds
ODAS2008	7	Ligurian Sea	CNR-ISSIA; CNR-ISMAR; ENEA; Acquario di Genova; DIST-Univ. Genova	EU
Echosurvey Adriatico	19	Adriatic Sea	FAO-ADRIAMED; Institute of Marine Biology; Fisheries Research Institute; CNR-ISAC	International/ National
VECTOR/ ADRICOSM-STAR-08	7	Adriatic Sea	ISMAR-CNR; IAMC-CNR; OGS; ICRAM; UNIV-TS; UNIAN	National
SOLEMON	24	Adriatic Sea	ISMAR-CNR; Agricultural University of Tirana; Fisheries Research Institute of Slovenia; Institute of Oceanography and Fisheries; Institute of Marine Biology; ICRAM	International/ National
ENI-08	2	Northern Adriatic Sea	ISMAR-CNR	National
DEGREE2008	15	Central Adriatic Sea	CEFAS; FRS; IFREMER; IMR, Norway; BIM; DIFRES	EU
VECTOR/ ADRICOSM-STAR-08	8	Adriatic Sea	ISMAR-CNR; IAMC-CNR; OGS; ICRAM; UNIV-TS; UNIAN	National
ENI-08	2	Northern Adriatic Sea	ISMAR-CNR	National

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# "Dallaporta" oceanographic surveys

## 2009

Survey	Days at sea	Study area	Partners	Funds
LT09	8	Northern and Central Adriatic Sea	ISMAR-CNR	National
Middel Trophic Level (M.T.L.)	5	Central Adriatic Sea	ISMAR-CNR; ICRAM	National
SARDONE	19	Northern and Southern Adriatic Sea	IFREMER; Hellenic Institute for Marine Research Iraklion; CSIC; OGS; Univ. Marche	EU
LT09	5	Northern and Central Adriatic Sea	ISMAR-CNR	National
MEDPOL	10	Southern Adriatic Sea	ISMAR-CNR	National
CARSINK	8	Central Adriatic Sea	ISMAR-CNR; IRSA-CNR	National
GUARCOS 2009	18	Adriatic Sea	ISMAR-CNR; Italy's Coast Guards	National
MEDPOL	8	Southern Adriatic Sea	ISMAR-CNR	National
LT09	4	Northern and Central Adriatic sea	ISMAR-CNR	National
MEDITS GSA18	24	Southern Adriatic Sea	ISMAR-CNR; Univ. Tirana; Institute of Marine Biology Kotor; IFREMER	EU/National

# "Dallaporta" oceanographic surveys

## 2009

Survey	Days at sea	Study area	Partners	Funds
TRAWL-DEEP 2009	9	Southern Thyrrenian Sea	IAMC-CNR; DBAEM. UNIME; INGV	National
MEDPOL	7	Southern Adriatic Sea	ISMAR-CNR	National
SARDONE 2009	10	Southern and Central Adriatic Sea	ISMAR-CNR; CSIC - Instituto Ciencias del Mar; HCMR; IFREMER; AZTI-Tecnitalia	EU
VELT09	7	Southern and Central Adriatic Sea	ISMAR-CNR; UNIVPM; Communication Technology	National
LT09	3	Northern and Central Adriatic sea	ISMAR-CNR	National
ANCHEVA 2009	17	Sicily Strait and Southern Ionian Sea	IAMC-CNR; ISMAR-CNR; VNIRO; MCFS; Univ. Vigo	National
MEDIAS Adriatico	20	Southern and Central Adriatic Sea	ISMAR-CNR; ISAC-CNR; IAMC-CNR; FAO-ADRIAMED; Institute of Marine Biology, Kotor; University of Tirane; Fisheries Research Institute, Ljubljana; IFREMER; IEO; HCMR	International/EU
EVATIR 2009	24	Ligurian and Thyrrenian Seas	IAMC-CNR; ISMAR-CNR; VNIRO	National
MEDIAS Adriatico	20	Southern and Central Adriatic Sea	ISMAR-CNR; ISAC-CNR; IAMC-CNR; FAO-ADRIAMED; Institute of Marine Biology, Kotor; University of Tirane; Fisheries Research Institute, Ljubljana; IFREMER; IEO; HCMR	International/EU

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# "Dallaporta" oceanographic surveys

## 2009

Survey	Days at sea	Study area	Partners	Funds
DEGREE 2009	12	Southern and Central Adriatic Sea	ISMAR-CNR; CEFAS; FRS; IFREMER; IMR, Norway; BIM; DIFRES	EU
VELT09	7	Southern and Central Adriatic Sea	ISMAR-CNR; UNIVPM; Communication Technology	National
LT09	4	Northern and Central Adriatic sea	ISMAR-CNR	National
MEDPOL	9	Southern Adriatic Sea	ISMAR-CNR	National
CARSINK	9	Central Adriatic Sea	ISMAR-CNR; IRSA-CNR	National
SOLEMON	32	Adriatic Sea	ISMAR-CNR; Agricultural University of Tirana; Fisheries Research Institute of Slovenia; Institute of Oceanography and Fisheries; Institute of Marine Biology; ICRAM	International/ National
LT09	4	Northern and Central Adriatic sea	ISMAR-CNR	National

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## Projects highlights

Acronym	Full title	Funds
<b>SESAME</b>	<b>Southern European Sea: Assessing and Modelling Ecosystem changes</b>	<i>FP6</i>
<b>VECTOR</b>	<b>VulnErability of the Italian coastal area and marine ecosystems to Climatic changes and Their rOLE in the Mediterranean caRbon cycles</b>	<i>National</i>
<b>ESONET</b>	<b>European Sea Observatory NETwork</b>	<i>FP6</i>
<b>HERMES</b>	<b>Hotspot Ecosystem Research on the Margins of European Seas</b>	<i>FP6</i>
<b>PROMESS 1</b>	<b>PROfiles across MEditerranean Sedimentary Systems. Part 1</b>	<i>FP5</i>
<b>EUROSTRATAFORM</b>	<b>EUROpean Margin STRATA FORMation</b>	<i>FP5</i>
<b>BIOFUN</b>	<b>BIOdiversity and Ecosystem FUNctioning in Contrasting Southern European Deep-Sea Environments: from viruses to megafauna</b>	<i>ESF</i>
<b>MedSudMed</b>	<b>Assessment and Monitoring of the Fishery Resources and the Ecosystems in the Straits of Sicily</b>	<i>National</i>

## Projects highlights

Acronym	Full title	Funds
<b>NEAREST</b>	Integrated observations from <b>NEAR</b> shore sources of Tsunamis: towards an early warning system	<i>FP6</i>
<b>ECOOP</b>	European <b>CO</b> astal-shelf sea <b>OP</b> erational observing and forecasting system	<i>FP6</i>
<b>MAMBA</b>	<b>MA</b> rine <b>Me</b> tagenomics for new <b>Bi</b> otechnological Applications	<i>EU</i>
<b>ADRICOSM</b>	<b>ADRI</b> atic sea integrated <b>CO</b> astal areas and river basin Management system	<i>National</i>
<b>MERSEA</b>	<b>MA</b> rine environment and <b>Se</b> curity for the <b>EU</b> ropean <b>A</b> rea	<i>FP6</i>
<b>DEGREE</b>	<b>DE</b> velopment of fishing <b>G</b> ears with <b>Re</b> duced <b>E</b> ffects on the <b>E</b> nvironment	<i>FP6</i>
<b>MIDDLE</b>	<b>MI</b> crobial <b>D</b> iversity in the <b>De</b> epest hypersaline anoxic <b>L</b> ake <b>S</b>	<i>ESF</i>
<b>SARDONE</b>	Improving assessment and management of small pelagic species in the Mediterranean	<i>FP6</i>
<b>GO</b>	<b>Ge</b> ophysical <b>O</b> ceanography - a new tool to understand the thermal structure and dynamics of oceans	<i>FP6</i>

# Other Italian Research Vessels

## European Research Vessels Infobase

Vessel Name	Length (m)	Category	Construction year	Operating area	Main vessel activity
Andrea	29.2	Local/Coastal	1999	Mediterranean	Fisheries
Astrea	23.8	Local/Coastal	2003	Mediterranean	Oceanography
Explora	72.6	Global	1973	Other	Multiple activities
Furetto	10.0	Local/Coastal	1965	Southern coastal zone of Italy	Multiple activities
Italica	130.0	Global	1981	Antarctica	Oceanography
Luigi Sanzo	15.0	Local/Coastal	2002	Southern coastal zone of Italy	Multiple activities
Minerva	60.1	Oceanic	1956	-	Multiple activities
Regione Lazio 1	10.0	Local/Coastal	2002	Mediterranean	Multiple activities
S. Lo Bianco	30.0	Local/Coastal	1967	Mediterranean	Multiple activities
Tecnopesca I	16.3	Local/Coastal	1989	Mediterranean	Multiple activities
Trer	11.0	Local/Coastal	2003	Mediterranean	Multiple activities
Universitatis	44.8	Regional	2002	Mediterranean	Multiple activities
Vega	15.9	Local/Coastal	-	Mediterranean	Multiple activities



# Other Italian Research Vessels

## Updates

### OUT OF SERVICE

Vessel Name	Length (m)	Category	Construction year	Operating area	Main vessel activity
Minerva	60.1	Oceanic	1956	-	Multiple activities
S. Lo Bianco	30.0	Local/Coastal	1967	Mediterranean	Multiple activities

### MISSING

Vessel Name	Length (m)	Category	Construction year	Operating area	Main vessel activity
Cerruti	14.5	Local/Coastal	-	Mediterranean	Multiple activities
Vettoria	19.0	Local/Coastal	1993	Mediterranean	Multiple activities

### INCORRECTLY REPORTED

Vessel Name	Length (m)	Category	Construction year	Operating area	Main vessel activity
Tecnopesca II	16.3	Local/Coastal	1989	Mediterranean	Multiple activities

# Other

## CNR Oceanographic Infrastructures

ODAS ITALIA 1  
Buoy



ACQUA ALTA  
Oceanographic platform



# ODAS ITALIA 1

## Buoy



**Ligurian Sea**

**37 nm far from the coast**

**1300 meters deep seabed**

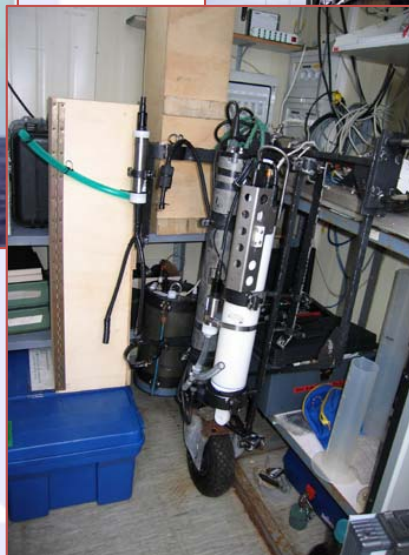


# ACQUA ALTA

## Oceanographic platform



Northern Adriatic Sea  
16 km off the coast of  
Venice



## **Other Relevant Information**

### **EUROFLEETS PROJECT**

**Towards an alliance of European research fleets**

### **ERICON – AURORA BOREALIS PROJECT**

**Icebreaker, drilling platform and multi-purpose research vessel**

Coordinator: European Science Foundation (ESF)

Consortium partners: 15 partners (funding agencies, scientific institutes, companies), 10 European Nations

Project duration: 01 March 2008 – 28 February 2012

Budget: 4.5 Million Euro

### **EUROPEAN POLAR SUMMIT**

**Establishing a European Framework for Polar Research**

24 June 2009 - Brussels

**http://www.cnr.it/sitocnr/UPO/gestione/infoce/UPOinfoce.html**

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**DCSPI - Ufficio Programmazione Operativa**  
**Navi**

**Nave Urania**  
[Calendario Urania 2009](#)

Parametro	Misura
L.F.T.	61.30 m
Larghezza	11.10 m
Pescaggio min/max	3.10 - 3.60 m
Stazza	1000 TS

La nave oceanografica Urania ha un'autonomia di 45 giorni e può ospitare un massimo di 36 uomini tra personale scientifico ed equipaggio. La gamma di velocità per il rilevamento continuo varia tra 1.5 e 11 nodi. Il sistema di propulsione è costituito da due eliche a passo variabile azionate da due motori da 1000 KW e da un'elica prodiera da 220 KW. La nave è equipaggiata con un sistema di posizionamento dinamico Simrad per manovre di precisione. La nave ospita laboratori per analisi, campionamento geologico, laboratori chimici e radiologici e consente l'elaborazione di dati di navigazione, geofisici e quelli acquisiti con il R.O.V. (Remote Operated Vehicle) e con la sonda multiparametrica. Gli strumenti geofisici comprendono un profilatore Chirp Datasonic, uno Sparker, un profilatore Sub-Bottom da 3.5 KHz, un Uniboom, un sonar a scansione laterale da 100 - 500 KHz e un magnetometro. Per quel che riguarda i sistemi di campionamento (operanti fino alle massime profondità del Mediterraneo) sono disponibili campionatori a gravità ed a pistone, box corer, benne (Shipek e Van Veen) e draghe. È inoltre possibile utilizzare sonde multiparametriche e multicampionatori, CTD, dispositivi per analisi biologiche e R.O.V.



**Thank you!**

**Any questions?**