

# Italy as part of ECORD and IODP

## The new phase of IODP-Italia and the International Ocean Discovery Program

Since 2003, the **European Consortium for Ocean Research Drilling (ECORD)**, has been part of IODP, the Integrated Ocean Drilling Program (IODP, 2003-2013) and the International Ocean Discovery Program (IODP, 2013-2023). The ECORD Managing Agency (EMA) is responsible for ECORD's membership and represents ECORD in all IODP entities.

IODP is an international research programme supported by its members, to explore the oceans. Building on the legacy of the Deep Sea Drilling Program (DSDP, 1968-1983) followed by the Ocean Drilling Program (ODP, 1983-2003), IODP addresses global challenges facing current and future generations with new research approaches, expanded scientific communities and continued development of its unique collaborative model.

### IODP – Italia Italian participation in ECORD-IODP

Italy officially joined the drilling program ODP in 1986 and then became a member country of the European Consortium for Ocean Research Drilling (ECORD), since its foundation in 2003.

### IODP – Italia at a glance

Coordinates, supports, and promotes the participation of Italian scientists and educators in ECORD and IODP activities.

Its rebirth has been successfully established through a national funding allocated since 2013 by MIUR and devoted to the ECORD Research Infrastructure.

Operates through a national Committee (IODP-Italia Committee), which is composed of members representing CNR, CoNISMa, OGS, ENEA, INGV e AMRA (ICDP-Italia) and supported by a Science Coordinator.

Financially supports the national researchers and educators selected by ECORD-IODP to be involved in cruise and post-cruise activities, as well as young scientists to attend training courses and summer schools organized by ECORD.

### IODP – Italia

- ~ Coordinates
- ~ Supports
- ~ Promotes
- ~ Strengthens



### the growing IODP national community

ECORD IODP-Italia



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&

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- Facilitates and supports participation of Italian scientists and educators in IODP expeditions, research, and outreach activities

- Makes Italian scientists aware of opportunities and results of IODP-related research

- Provides grant support to enable Italian scientists to exploit the results of IODP drilling

- Organizes, facilitates, and sponsors science meetings/workshops

- Supports opportunities for students and young scientists

- Regularly publishes program literature through mailinglists and website

### ECORD national delegates

Council delegates: **Marco Sacchi** (component and also a new ECORD Executive member)

and **Laura De Santis** (alternate)

ESSAC Committee delegates: **Andrea Argnani** (component) and **Simonetta Monechi** (alternate)

### Italian IODP representatives

**Elisabetta Erba**: member of the IODP Curatorial Advisory Board

**Michele Rebesco**: member of the MagellanPlus Steering Committee and the Site Subgroup of the IODP Science Evaluation Panel (SEP)

# IODP-Italia - recent and forthcoming activities

## Scientific and Outreach Participation

12 Italian scientists, 1 chief scientist and 1 Education Officer have been selected to sail onboard IODP expeditions as researchers in diverse shipboard specialties since 2013 (*International Ocean Discovery Program, 2013-2023*).

2017 shipboard scientists. Onboard *Exp. 367-368 "South China Sea Rifted Margin"*: Claudia Lupi (Univ. of Pavia, expert in nannofossil micropaleontology), Jacopo Boaga (Univ. of Padova, expert in petrophysics), and Sara Satolli (Univ. of Chieti-Pescara) as a paleomagnetist; Alessia Cicconi sailed as Education and Outreach Officer and also actively participated in the ECORD/IODP exhibition booth at EGU 2017 General Assembly.

Now sailing. Claudia Agnini (Univ. of Padova) is participating in *Exp. 371 "Tasman Frontier Subduction Initiation and Paleogene Climate"* as nannofossil specialist.

Soon sailing. On *Exp. 369 "Australia Cretaceous Climate and Tectonics"*: Maria Rose Petrizzo (Univ. of Milan) as a planktonic foraminifer micropaleontologist; on *Exp. 375 "Hikurangi Subduction Margin"*: Francesca Meneghini (Univ. of Pisa), as a sedimentologist. Laura De Santis will sail onboard *JR Exp. 374 "Ross Sea West Antarctic Ice Sheet History"* as Co-chief Scientist.

**Italian scientists are involved in 11 active drilling proposals**, as lead proponents and co-proponents.

More than **20 IODP-related research articles per year** - authored and co-authored by Italian scientists - have been published in the most relevant international earth science journals.

**2 Magellan Plus Workshops** have been held in Italy during 2017: *Caldera Drilling-Campi Flegrei* was hosted by Marco Sacchi (CNR-IAMC) in Naples and *Tyrrhenian Magmatism & Mantle Exhumation (TIME)*, led by Nevio Zitellini (CNR-ISMAR) took place in Bologna.

**2 post-cruise meetings hosted by Italian shipboard scientists.** *Exp. 357 "Atlantis Massif Seafloor Processes: Serpentinization and Life"* post-cruise meeting has been organized in Liguria by Chiara Boschi (CNR-IGG), who joined the expedition onshore Party in Bremen in 2016; *Exp. 360 "SW Indian Ridge Lower Crust/Moho"* post-cruise meeting will be held in Sicily and led by the shipboard scientists Alessio Sanfilippo e Riccardo Tribuzio (Uni Pavia).

## People and Activities

### ONBOARD

#### Research and Education



Italian shipboard scientists and Education Officer sailed onboard the South China Sea *Exp. 367-368* (Sara Satolli, Alessia Cicconi, Claudia Lupi, Jacopo Boaga)

### ONSHORE

#### Organizing and attending post-cruise meetings



*Exp. 357* post-cruise meeting field trip - Ligurian ophiolite sequence cropping out at Cava dei Marmi northwest of Levanto. Chiara Boschi organized the meeting in Sestri Levante and led the field trip with Riccardo Tribuzio.

### EVENTS and CONFERENCES

#### Communicating with scientists



Exhibition booth at the 88th Congress of the Italian Geological Society (Naples, 7-9 September 2016). IODP-Italia team in the picture composed of Alessio Sanfilippo, Karen Gariboldi, Laura De Santis, Annalisa Iadanza, and Riccardo Tribuzio.