

Michele Rebesco

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)

Curriculum Vitae

I. Personal details

Name: Michele **REBESCO**
Function: Researcher
DoB/Status: 1 March 1964, married, with three children
Address (work): Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)
Borgo Grotta Gigante 42/C
34010 Sgonico (TS) Italy
Tel/E-mail: +39 040 2140252/ E-mail: mrebesco@ogs.trieste.it



II. Education

- 1989: Laurea (M.Sc.) in Geological Sciences, University of Parma, Italy
- 1996: Dottorato di Ricerca (PhD) in Earth Sciences, University of Parma, Italy

III. Career

- November 1990 – November 1992: EC GEOSCIENCE Program fellowship at OGS
- August 1996 – August 2001: Temporary Scientist at OGS
- August 2001 – December 2008: Permanent Scientist at OGS
- January 2009- date: Permanent Senior scientist at OGS

IV. Relevant research interests

Geological/geophysical exploration of polar margins, aimed at depositional processes and glacial history reconstruction. Interacting downslope and alongslope deep sea sedimentary processes. Integrated Solid Earth System research to: Contribute to the study of Global Change and paleoclimate in particular, especially at high (polar) latitudes, either north and south. Contribute to the study of Earth Hazards, in particular deep-sea landslides and instabilities.

V. Scientific Experience

- Participation in 7 national and international marine geological research cruises, of which 3 as scientific coordinator, for a total of about 240 days at sea, in the Arctic, Antarctic and Mediterranean seas:

1 & 2) R/V OGS-Explora (Italy), X° and XII° Italian Antarctic Cruises, aimed at the survey of the sediment drifts of the Antarctic Peninsula margin, with high-resolution multi-channel seismics, coring and oceanographic measurements (Jan.-Feb. 1995, and Feb.-March 1997). Appointments: near-trace monitoring, core handling.

3) R/V URANIA (Italy), SINAPSI Cruise, aimed at understanding the climate interannual variability for the marine ecosystem of the Mediterranean basin, with heat-flow measurements, coring and CTD analyses (Nov.-Dic. 1997). Appointments onboard: Chirp Sonar monitoring, core handling, staff-scientist.

4) D/S JOIDES RESOLUTION, ODP Leg 188 cruise in Prydz Bay, Antarctica (Freemantle 16/1/2000 - Hobart 11/3/2000) to drill the glacial sediments from continental shelf, slope and rise. Appointment: sedimentologist.

5) R/V OGS-Explora (Italy), XIX° Italian Antarctic Cruise, aimed at survey Sediment drift 7 (Antarctic Peninsula margin, with multibeam and sub-bottom ecosoundings (Jan-Feb 2004). Appointments: Scientific coordinator.

6) R/V N.B. Palmer (US), NBP0603 Cruise to the former Larsen Ice Shelf area (11/04-06/05 2006). Appointments onboard: scientific coordinator of the seismic acquisition.

7) R/V OGS-Explora (Italy), EGLACOM (Evolution of a GLacial Arctic COntinental Margin) Cruise within the IPY framework, aimed at the geophysical survey of the southern Svalbard ice stream-dominated sedimentary system (8 July – 4 August 2008). Appointments onboard: Scientific coordinator.

- Member of OGS scientific committee (2005-2012);
- OGS delegate in national committees for Italian participation to: IODP (Integrated Ocean Drilling Program); IYPE (International Year of Planet Earth); IBCSO (Internat. Bathymetric Chart of the Southern Ocean) and IBCAO (Internat. Bathymetric Chart of the Arctic Ocean); IMAGES (International Marine Past Global Change) committee; Italian delegate for the Arctic Monitoring and Assessment Programme of the Arctic Council;
- Member of ERICON (Aurora Borealis Consortium) Science Advisory Panel.

VI. International cooperation

- Participant to IGCP projects: 432 "Contourites, Bottom Currents and Paleocirculation" (1998-2002); 511 "Submarine Mass Movements and their consequences (2005- 2009); 585 E-MARSHAL: Earth's continental MARGins: aSsessing the geoHAzard from submarine Landslides" (2010-2014);
- Coordinator of the Project "SEDANO II": 120.000 Eur (PNRA) + 30 days shiptime of OGS-Explora (1997-1998)
- Coordinator of the project " Larsen" funded (26.000 Eur) by PNRA (on board US icebracker Palmer cruise NBP 00-03) (1999 to 2001).
- Coordinator of the project "SEDANO III-A" funded (180.000 Eur) by PNRA and of associated SEDANO III-B and –C (on board COHIMAR cruise of R/V Hesperides) (1999 to 2001).
- Coordinator of OGS unit of the project SINAPSI funded (20.000 Eur) by National Council of Researches and Ministry of Research (2000 to 2002).
- Coordinator of the project "MAGICO" funded (46.000 Eur + 30 days shiptime of OGS-Explora) by PNRA (2002 to 2003).
- Coordinator of OGS unit of the project EURODOM funded by EU within 5° FP (205.000 Eur) (1/9/2002 to 31/8/2005).
- Coordinator of OGS unit of the project SVAIS funded by Spanish Ministerio Education y Ciencia (9.350 Eur) (onboard R/V Hesperides in 2008) (2007 to 2009) .
- Coordinator of the project EGLACOM funded by OGS (600.000 Eur + 26 days shiptime of OGS-Explora) (2008).
- Coordinator of OGS unit of the project EU EUROFLEETS funded by EU within 7° FP (595.690 Eur) (1/9/2009 – 31/8/2013)
- Coordinator of the project MELTSTORM funded (60.000 Eur) by PNRA (28/10/2011-27/10/2012)

VII. Scientific involvement within proposals to ocean drilling program

- 1) Co-author of ODP drilling proposal n°330 Rev. "Time progressive continental collision: the Mediterranean Ridge accretionary complex in the Eastern Mediterranean". Drilled in Leg 160, 7/3-2/5/1995.
- 2) Co-author of ODP drilling proposal n°452 Rev. "Antarctic Peninsula Pacific margin: antarctic glacial history and causes of sea-level change".
- 3) Shore-based participant to Leg 178. Appontments: synthetic seismogram construction and interpretation.
- 4) Onboard participant to Leg 188. Appontments: sedimentologist.
- 5) CORD delegate (alternate) to IODP Site Survey panel (since 2006)
- 6) Co-author of IODP drilling proposal 644 "GUCADRILL: Environmental significance of the Mediterranean Outflow Water and its global implications".
- 7) Co-author of IODP drilling proposal 732: "Sediment drifts off the Antarctic Peninsula and West Antarctica".