



Scientific Drilling in Oceans and on Continents for a better understanding of our ever-changing planet

System Earth components - the solid Earth, hydrosphere, atmosphere, cryosphere, and biosphere - are linked through flows of mass, energy, and life. Interactions between these realms control the development and evolution of our planet in space and time, and the rocks and fluids of our ever-changing planet are archives of these processes. These precious relicts and living systems need to be probed, collected, monitored and analyzed in order to better understand the workings of planet Earth.



The need to drill

As the global population continues to increase there is a corresponding increase in the threat to life and property posed by natural disasters such as earthquake and volcanic activity, as well as the consequences of climate and environmental change. Despite surface studies, laboratory and theoretical work that has aimed at understanding the Earth System, it is impossible to comprehend the myriad of natural and anthropogenic processes that shape our dynamic Earth without sampling and monitoring at depth. Scientific drilling can deliver solutions to major societal problems and contributes to sustainable and efficient use of georesources.



ECORD/IODP and ICDP: two major programs with one common purpose

Two major international scientific drilling programs have brought major advances to understand the deep Earth: IODP and ICDP.

The **European Consortium for Ocean Research Drilling (ECORD)** is the European, Canadian and Israeli part of the **International Ocean Discovery Program (IODP)**. The program is the latest phase of ocean research drilling, which started in 1966 with the Deep Sea Drilling Program (DSDP), and now has 26 member countries.





The International Continental Scientific Drilling Program (ICDP) was founded in 1993 by the USA, Germany and China as the continental counterpart to the ocean drilling programs. ICDP now has 24 member countries and more than 30 ICDP drilling projects have been executed while several new projects are in planning.



www.ecord.org

www.icdp-online.org

MagellanPlus: the ECORD/ICDP workshop initiative

The ECORD/ICDP MagellanPlus Workshop Series Programme is designed to support scientists from ECORD and ICDP member countries in developing new and innovative science proposals for submission to IODP and ICDP, through the integration of continental and marine drilling and coring to meet future challenges in Earth, life and environmental sciences.



www.ecord.org/magellanplus.html

Scientific Drilling: the ICDP-IODP open access program journal

Scientific Drilling is a multidisciplinary journal focused on bringing the latest science and news from the scientific drilling and related programs to the geosciences community. Scientific Drilling delivers peer-reviewed science reports from recently completed and ongoing international scientific drilling projects. The journal also includes reports on Engineering Developments, Technical Developments, Workshops, Progress Reports, and News and Views to the community.



www.scientific-drilling.net/