An ESF Programme

ESF Consortium for Ocean Drilling (ECOD) White Paper

September 2003

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Cover picture:
JOIDES Resolution was converted in Pascagoula, Mississippi, in the fall of 1984. She was built in Halifax, Nova Scotia in 1978 and had previously sailed the world as a top-class oil-exploration vessel. *JOIDES Resolution*, is 470 feet long and 70 feet wide. The ship's derrick towers 202 feet above the waterline. A computer-controlled dynamic positioning system, supported by 12 powerful thrusters and two main shafts, maintains the ship over a specific location while drilling into water depths up to 27,000 feet. A seven-story laboratory stack and other scientific facilities located fore and aft occupy 12,000 square feet.

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Foreword

ECOD is one of the best examples of what Europe should be doing to gain the scientific leadership it seeks. The European Research Area is all about joining forces for a more efficient use of resources. This is precisely what ECOD has been doing. However, ECOD has gone further than that. I am aware that ECOD has been the provider for a strong relationship between scientists, but also between policy makers and programme managers from research institutions from 14 European countries. Such networking will last well beyond the life time of ECOD. ECOD has operated flexibly, without an unnecessary bureaucracy with its tendency to slow things down. It is with great pleasure that ESF has offered its dynamism, enthusiasm and management skills to ECOD members to provide the support which was necessary. We have now come to an end of this activity and ESF has the feeling that it has done what had to be done and the research has a firm foundation.

For all this I am thankful to the ECOD participating organisations with which we have enjoyed such a fruitful partnership.

Enric Banda
ESF Secretary General

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Introduction

The European Science Foundation Consortium for Ocean Drilling (ECOD) is coming to a close in the fall of 2003 after 17 years of successful operation as a member of the Ocean Drilling Program (ODP). During this period, ECOD not only significantly contributed to the exploration and discovery of the history of world's oceans, but also demonstrated how productive and powerful the partnership of scientists and management organisations of 14 smaller European nations are in a global context. The program shaped the focal themes of ocean research in general and Europe in particular, determined the careers of several generations of scientists, promoted a European platform for earth scientists and influenced the major step towards the future Integrated Ocean Drilling Program (IODP).

With the change of ODP towards IODP, the partnership and role of the European nations are also changing. Not only is Europe moving to a complete integration of scientists and management, ECOD nations and the United Kingdom, France and Germany are jointly forming a partnership named the European Consortium for Ocean Research Drilling (ECORD). European membership of IODP is taking on a crucial role in platform capability that has been unavailable to the community before. The purpose of this document is to highlight the achievements of ECOD as a successful partnership before moving to a new era of ocean research drilling. Firstly, this document will provide both the scientists and funding agencies with a review of the organisation and insight into how it lived up to the expectations over a period of nearly 17 years. Secondly, it offers a view on the status of the negotiations and planning that will lead to a new European Consortium that will assume greater responsibilities in a global organisation with approximately three times the budget of its predecessor and with capabilities ranging from uncovering the tectonics of the deep ocean floor, to unlocking the secrets of active margins and seismogenic zones and to the very shallow waters and beyond. As a result, this document will reach out to a large scientific community that will include hydrologists and geobiologists as well as geoscientists working in shallow waters.

The membership of ODP has been instrumental and of great value to the ECOD science and management community. It has not only contributed to the education and experience of individual earth scientists through collaboration onboard a high-tech drilling vessel (the *JOIDES Resolution*), but also provided them with a truly global network and opportunities to develop and address key scientific questions and co-publish major discoveries that have changed the way we "do" science in this new century. ECOD scientists were present and actively involved when expanding our knowledge of plate tectonics – including the creation and destruction of the ocean crust, which has led to an improved understanding of the causes of seafloor spreading and large-scale earthquakes. They significantly contributed to the improvement of our understanding of past sea-level fluctuation to better predict future sea-level change and its social and economic impacts. ECOD scientists contributed to the discovery and unlocking of the secrets of gas hydrates – a large source of hydrocarbons locked under the seafloor as frozen methane gas – which in the future may constitute an energy source that could satisfy the global demand for natural gas for centuries. They were deeply involved in the discovery and study of hydrothermal mineralisation – active hydrothermal systems where superheated water rises through the seafloor – which may contribute to land-based mineral exploration. ECOD scientists are actively involved in the study of extreme climates that may provide clues to past and future rapid changes in global climate. In the rapidly evolving theme of the deep biosphere, they were present when

microbial activity was discovered at 800 m below the ocean floor and continue to be involved in this rapidly expanding field of science.

ECOD scientists have equalled, and in some cases even outperformed, our international partners, while forming a strategic contingent of the international ocean drilling community. They have been involved in the initiation, development, planning and execution of science projects and have actively participated in the numerous panels and boards that manage the Ocean Drilling Program. They have participated in one of the most successful and truly global science programs, not only with respect to the science themes and the technology, but also the nature of the program structure. The great benefit of the organisational character of the organisation has been reflected – and praised by the international community – in the way ECOD was structured as a partnership striving to consensus rather than majority decisions. This major accomplishment also forms the blueprint for the new European organisation ECORD and has been adopted in its terms of reference. With the change from a predominantly US funded Ocean Drilling Program towards a joint venture led by Japan, the US and a European partnership, this success may even be reflected in the way IODP will operate in the future.

In the fall of 2003, IODP will embark on a new scientific mission, with tripled platform capability that will seek clear understanding of the complex and delicate system "Earth" or "*Chikyu*". European nations, united in ECORD, will be a major partner and provide important scientific and operational support to this mission. This document presents the legacy of the ECOD consortium (1986-2003) as a full member of the Ocean Drilling Program. It looks back to the birth of a consortium of eleven European nations in 1986, expanded to twelve in 2000, and monitors its rapid and growing scientific and managerial involvement – or performance – in Ocean Drilling to demonstrate how well it fared. It explains how the ECOD scientific community participated in the initiation of a new program, the Integrated Ocean Drilling Program, with scientific aspirations many times larger than its predecessor and a European partnership that integrates fifteen nations in a true European consortium with significantly expanded responsibility, the European Consortium for Ocean Research Drilling.

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Looking Back – The Ocean Drilling Program

The Beginning – ECOD

The Deep Sea Drilling Project (DSDP, 1968-1984) validated the theory of plate tectonics, started the development of a high-resolution chronology related to the study of ocean circulation changes and was the first consistent exploratory effort of all of the major ocean basins, except the high Arctic. Although European scientists participated, the program was largely a US initiative and, with the exception of shipboard participation, there was little influence from non-US scientists. Those Europeans that were involved realised the impact and potential and set the stage for a European consortium in 1983. It took several years to get the organisation off the ground, but, on April 29 1986, the European Science Foundation Consortium for Ocean Drilling (ECOD) became a reality. ECOD joined the Ocean Drilling Program (ODP, 1985-2003) as a full member, and continued to be so for the following 17 years. The Ocean Drilling Program *(figure 1)* is sponsored by the U.S. National Science Foundation (NSF) and agencies from the twenty-one other international ODP members through a Memorandum of Understanding with the NSF. Joint Oceanographic Institutions (JOI) manages the ODP through a contract with the NSF. JOI has a subcontract with Texas A&M University, which acts as the ODP Science Operator. JOI also has subcontracts with Lamont-Doherty Earth Observatory, which acts as the ODP Logging Operator and the ODP Site Survey Databank. Scientific advice and guidance for ODP is provided through the JOIDES scientific advisory structure. Current full members are the European Science Foundation Consortium for Ocean Drilling

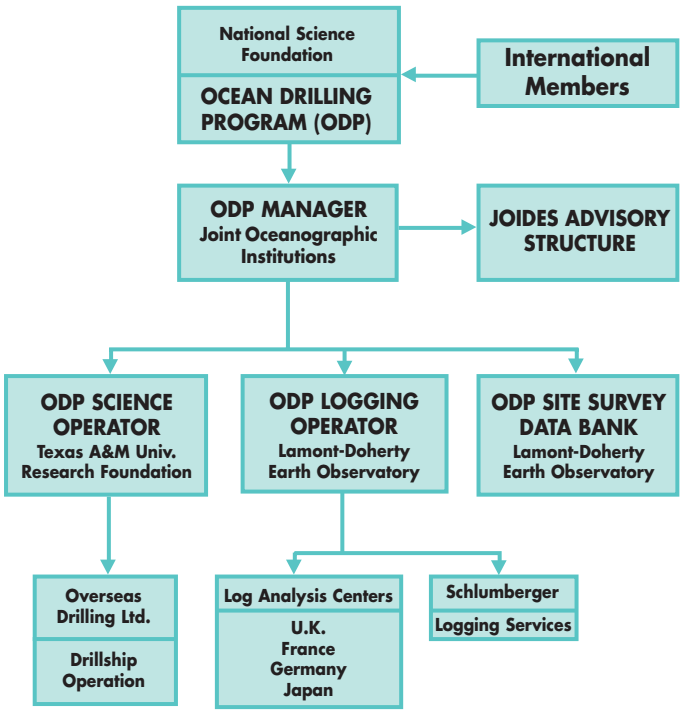


Figure 1. Structure of the ODP

ECOD (Belgium, Denmark, Finland, Iceland, Ireland, Italy, Norway, Portugal, Spain, Sweden, Switzerland, and the Netherlands), Germany, Japan, the United Kingdom and the United States of America. Associate members are the Australia/Canada/Korea/Chinese Taipei Consortium for Ocean Drilling, France and the People's Republic of China.

The JOIDES Science Advisory Structure is responsible for providing scientific advice and guidance for ODP, and consists of the JOIDES Executive Committee (EXCOM) and a science advisory structure headed by the JOIDES Science Committee (SCICOM). The JOIDES Science Advisory Structure (see http://joides.rsmas.miami.edu/) for the Ocean Drilling Program was revised in 1997 in order to better tackle the initiatives and objectives contained in the ODP Long Range Plan published in 1996. The JOIDES Science Advisory Structure *(figure 2)* is now headed by a Science Committee (SCICOM), which replaced the JOIDES Planning Committee

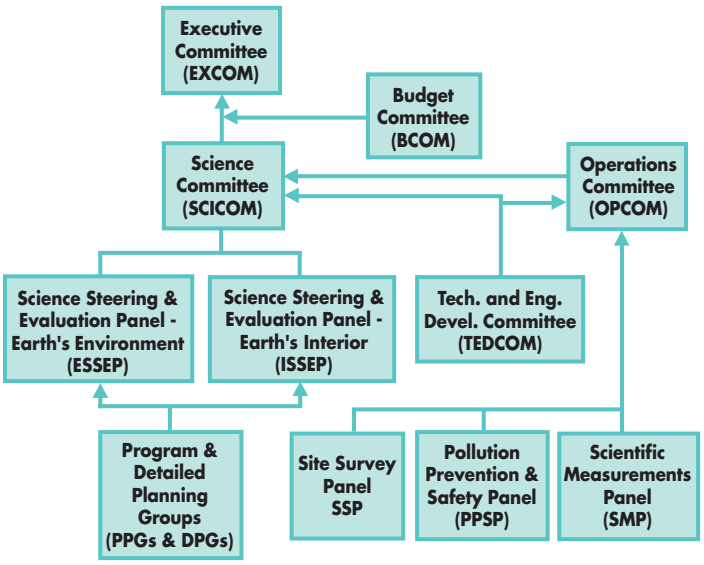


Figure 2. The JOIDES Science Advisory Structure

(PCOM) that had been formed in 1964. An Operations Committee (OPCOM) has been created to deal with operational issues, such as ship scheduling, technological development, and scientific measurements. As was the case with PCOM, SCICOM receives advice from several panels and committees. The four Thematic Panels (LITHP, OHP, SGPP, and TECP) that had provided advice during the earlier phases of the ODP have been replaced by two Science Steering and Evaluation Panels (SSEPs), one focused on processes in the Earth's interior (ISSEP) and the other concerned with processes affecting environments on the Earth's surface (ESSEP). Program Planning Groups (PPGs), and Detailed Planning Groups (DPGs) consider strategies for achieving specific scientific goals. Three service panels had provided advice since the inception of the DSDP in 1967, the Information Handling Panel (IHP), the Downhole Measurements Panel (DMP), and the Shipboard Measurements Panel (SMP) were combined into a Scientific Measurements Panel (SciMP). The Technology and Engineering Development Committee (TEDCOM), the Pollution Prevention and Safety Panel (PPSP), and the Site Survey Panel (SSP), which were organised during the early part of the DSDP, continue in their traditional roles and have not been restructured.

The success of ODP and ECOD's participation was largely based on the scientific achievements: capitalisation on DSDP's momentum, probing deeper into the oceanic crust to study its architecture, analysing convergent margin tectonics and associated fluid flow, and examining the genesis and evolution of oceanic plateaux and volcanic continental margins and, extending our knowledge of long- and short-term climate change. Membership of ECOD, and therefore ODP, provided the following benefits:
1) ECOD scientists, students, educators, and professionals may interact with scientists from other countries, both in shipboard and shore-based operations;
2) ECOD representatives hold positions on all levels of the JOIDES Advisory Structure;
3) ECOD scientists may participate on the drill ship *JOIDES Resolution*;
4) ECOD scientists, students, educators, and professionals are entitled to request and use shore based samples and facilities and bid on all contracts and services required by the program. ECOD currently consists of twelve member countries that are subdivided into the Nordic and Southern Groups. Denmark, Finland, Iceland, Norway, and Sweden are included in the Nordic Group. Belgium, Ireland, Italy, the Netherlands, Portugal, Spain, and Switzerland are included in the Southern Group. ECOD consists of two permanent committees, the ESF Science Committee for the ODP (ESCO) and the ESF Management Committee for the ODP (EMCO). The ESF formed the legal entity representing ECOD, was accountable to the international management of ODP and made the financial contribution to the US National Science Foundation (NSF). Each ECOD member was a member of the ODP Council with the addition of an official ECOD representative. Over the

years ECOD was run as an Associated Program of ESF indicating that the management cost of the program was added to the contribution to ECOD.

The ESF Management Committee for the ODP (EMCO) is responsible for political and financial matters, and for overseeing long-term scientific planning. EMCO consists of one delegate and one alternate from each of the twelve member countries, plus an EMCO Secretariat, and ESF representative-at-large. The EMCO chair and vice-chair are also delegate and alternate for EXCOM, respectively. The EMCO Secretariat does not rotate between the member countries, but is permanently located at the ESF Office in Strasbourg. Member countries annually pay ESF a contribution for the membership in ODP and administrative overhead. Twelve countries and fifteen funding organisations have signed agreements with ESF to participate in ECOD and ODP from 1 October 1998 to 30 September 2003 (i.e., ODP Phase III). The contribution to NSF was initially set at US$ 2.5 million yearly but increased in 1988 to US$ 2.75 and currently (in 2003) is US$ 2.95. The contribution by NSF fluctuated around 57% of the total cost of the program. EMCO is responsible for the financial participation of the various ECOD members within the total ODP contribution. The individual level varied over the years but generally ECOD was able to pay the required full membership contribution to NSF.

The European Science Foundation (ESF) Science Committee for the ODP (ESCO) consists of one delegate and one alternate from each of the twelve member countries, plus an ESCO Secretariat. The secretariat with its chair and science coordinator rotates between the Nordic and Southern Groups at three-year intervals. The continuous work by ESCO includes two meetings a year when the delegates of the member countries are informed about the current activities within ODP and the operations schedule of the *JOIDES Resolution*. Nominations of ECOD scientists that have applied for ODP legs are made, and potential co-chiefs are proposed, among other issues that are discussed at these meetings. Main tasks for ESCO include: 1) Coordinating scientific and logistic issues with JOIDES and the Science Operator (TAMU); 2) Nominating representatives (delegates and alternates) to panels of the JOIDES Advisory Structure; 3) Organising ECOD Workshops at regular intervals to aid in the planning and execution of project activities; 4) Actively encouraging ODP-related activities within and between participating countries; 5) Developing scientific planning and priorities; 6) Coordinating drilling proposals from the ECOD countries; and 7) Coordinating site surveys and related research within ECOD.

The ESCO Secretariat was located in Oslo (86-89: Chairman Prof. Olav Eldholm and science coordinators Dr. Bjorg Stabell and Mrs. Grete Andersen), Milan (89-92: Chair Prof. Maria Bianca Cita Sironi and science coordinator Dr. Elisabetta Erba in the first year and then Dr. Fulvia Aghib and part-time secretaries Drs. Angelo Camerlenghi and Silvia Spezzaferri), Copenhagen (92-95: Chairman Dr. Hans Christian Larsen and science coordinator Dr. Naja Mikkelsen and secretary Mrs. Birgit Jørgensen); Zurich (95-98: Chair Prof. Judith McKenzie and science coordinator Dr. Silvia Spezzaferri); Stockholm (99-01: Chairman Dr. Nils Holm and science coordinator Maria Ask) and finally in Amsterdam (01-03: Chairman Dr. Jeroen Kenter and science coordinator Drs. Sam Purkis). The ESF Management Committee for the ODP (EMCO) did not have a rotating secretariat but remained with the European Science Foundation (ESF) in Strasbourg. EMCO Chairs were successively Prof. Van Lieshout (86-89), Dr. M.O. Ottonson (89-92), Prof. Renzo Sartori (92-95), Dr. Susan Egelund (95-98), Prof. Menchu Comas (98-01) and Dr. Mary von Knorring (01-03).

It should, however, not be omitted that the unique partnership that combined twelve (with only minor changes over the years) smaller European nations for so many years in a consortium, was fundamental to its success. One of the keys to this was the management structure of the consortium that cemented scientists and national science foundations of twelve very different countries together for such a long period. Though no two countries funded the consortium with equally levelled contributions, the science (ESCO) and management (EMCO) structures were designed to work through consensus. In addition, the ESF Scientific Committee for the ODP (ESCO) Secretariat was rotating every three years with the Chair and Science Coordinator (funded from a central ESF budget), therefore maximising the exposure to the scientific communities. Finally, during the Swedish Secretariat, an ECOD website opened up many of the functions of the organisation to the community (*http://www.geo.vu.nl/~esco/*).

The Performance – ODP

The scientific impact of ODP is difficult to measure but has been captured by numerous publications, of which the best overview is provided by the Special Issue of the JOIDES Journal Volume 28, No. 1, Spring 2002, which is available as PDF file from the JOIDES web site (*http://joides.rsmas.miami.edu/journal/index.html*). The publication, named "Achievements and Opportunities of Scientific Ocean Drilling" was initially organised at the August 2000 meeting of the JOIDES Science Committee (SCICOM) for the Ocean Drilling Program (ODP), partly in response to an Executive Committee (EXCOM) request that SCICOM begin documenting the scientific legacy of ODP as the transition to the Integrated Ocean Drilling Program (IODP) approached. The heart of the volume was to be a set of sixteen summaries representative of the full range of themes in the 1996 ODP Long Range Plan, Understanding our Dynamic Earth through Ocean Drilling. The organisation of this volume, therefore, closely follows the development of themes in the Long Range Plan, which is still available electronically (in PDF format) at the website of the Joint Oceanographic Institutions (*http://www.joiscience.org*). More recently, a brochure was published that presents just a few of "ODP's Highlights" that illustrate the rich diversity of accomplishments by the international scientific community (*http://www.joiscience.org*). Its predecessor, "The Greatest Hits" was published in 1997 and is available from the same website. In addition, the website provides contributions (in PDF format) on multiple topics like Technology, Climate Change, Sea Level Rise, Microbiology, Hazards, Architecture of the Earth, Resources, Additional Hits and many others.

The Performance – ECOD

In addition to the overall performance of the ODP, it is important to document how well ECOD has fared over the last 17 years of ODP membership. Previous ECOD White Papers (89-92 and 92-96) have exhaustively documented the scientific and technological benefits of the program, outlined in detail the organisational structure within ECOD and ODP, and sketched the short-term future of the program. For example, 18 ECOD co-chiefs and 240 scientists sailed on the *JOIDES Resolution* during ODP. This compares very well with the contribution of other full members like Japan, the PacRim consortium, Germany, the UK and France *(Figures 3 and 4, respectively).*

These documents clearly demonstrate that ECOD performed very well within ODP and can easily stand the comparison with their partners, the other full members of the program. Rather than duplicating these documents, we would like to provide the community with the performance measured within ECOD through national reports and a statistical comparison of

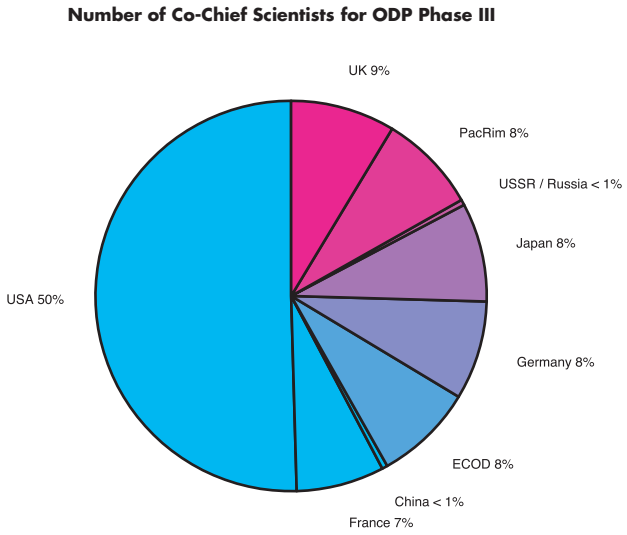


Figure 3. Overview of the total number of Co-Chief Scientists by ODP member during Phase III

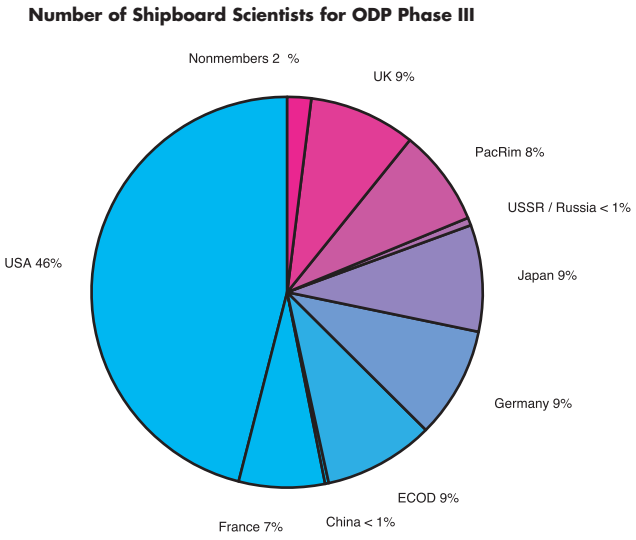


Figure 4. Overview of the total number of Shipboard Scientists by ODP member during Phase III

basic information. The national reports (Annexes to this White Paper) summarise, as well as shipboard participation, representation in the ODP Planning Structure, involvement in ODP science proposals, PhD projects based on ODP material, the hosting of ODP related workshops and meetings and the highlights from a national perspective. This is very important since for each individual member of ECOD a different set of "measuring sticks" has defined its role and success at a national level. In addition, most countries have provided a "young rising star"; a personal experience of a young scientist that actively participated in ODP and excelled in his/her scientific field. After all, one of ECOD's primary roles was to stimulate and educate a new generation of scientists.

Clearly, no self-evaluation is valid to the national science foundations without a summary of basic scientific output measured by a number of parameters such as: 1) the number of scientific publications in peer-reviewed journals, 2) shipboard participation, 3) sample requests, 4) seats held on ODP panels, 5) PhD projects and, 6) ECOD based proposals. A series of diagrams generated from information provided by the national representatives reviews the performance on the earlier mentioned parameters within the ECOD consortium. Since the only way to compare the output within the consortium is to standardise against a common parameter, the percentage of the financial contribution was selected as a measuring stick. It should be mentioned that alternatively, and perhaps even more realistically, a comparison of the performance could have been calculated against population size, national product, or even the size of the scientific community, or any possible combination of these and other parameters.

The percentage of the national financial contribution for ODP Phase III (1998-2003) is shown in *figure 5* (minor deviations over the years have been ignored). This percentage is roughly copied by the number of hits on the ODP website *(figure 6)* and reflects a fairly balanced interest in information (i.e. cruise information or data downloads) from the program among the members. However, the persons seeking information are not discriminated and could be ranging from scientists to the general public.

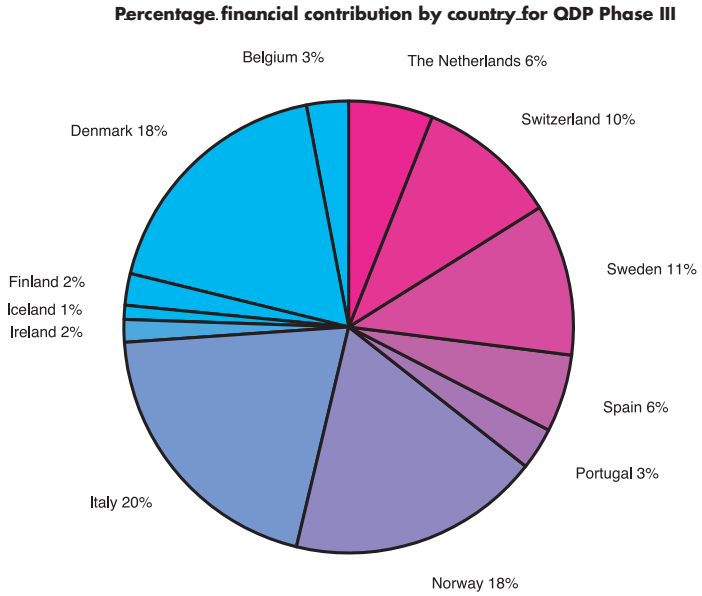


Figure 5. An overview of the financial contribution for each ECOD member during ODP Phase III. It should be noted that Ireland and Portugal have fewer years' membership and that Turkey and Greece have been omitted

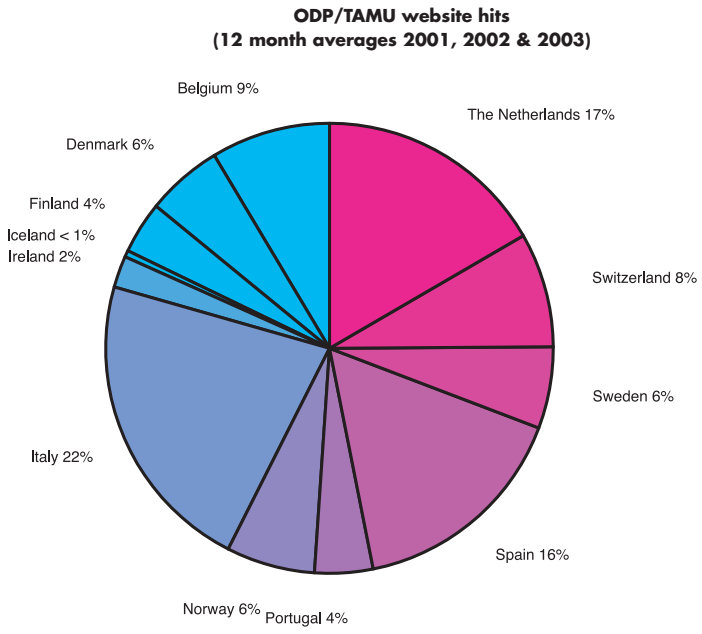


Figure 6. An overview of hits on the ODP/TAMU web site by the ECOD community

The number of shipboard scientists *(figure 7)* should reflect how well the national science community is using the program. More than 180 ECOD scientists participated directly in cruises during the entire membership period (1986-2003), which is, according to TAMU, among the highest participation among the ODP full members. This indicates first of all the high level of functionality of the ECOD organisation. When split per ECOD member the number should balance the percentage of contribution since shipboard participation is calculated as such. The red bars on the right side show whether ECOD members succeeded in providing sufficient scientists for shipboard participation where the vertical "zero" line represents the standard (average) for the consortium as a whole. This is the total number of scientists divided by the total contribution over the period of 17 years. Deviations to the right indicate slight overstaffing, deviations to the left a minor understaffing. Minor understaffing by some of the Nordic countries during the final phase of the program was compensated by several Southern countries and explains most of the variations around zero. Since Turkey and Greece left the ECOD prior to the end of ODP and both Portugal and Ireland joined later than the other ECOD members, the relative performance (red bars) for these countries are not representative and therefore have been omitted.

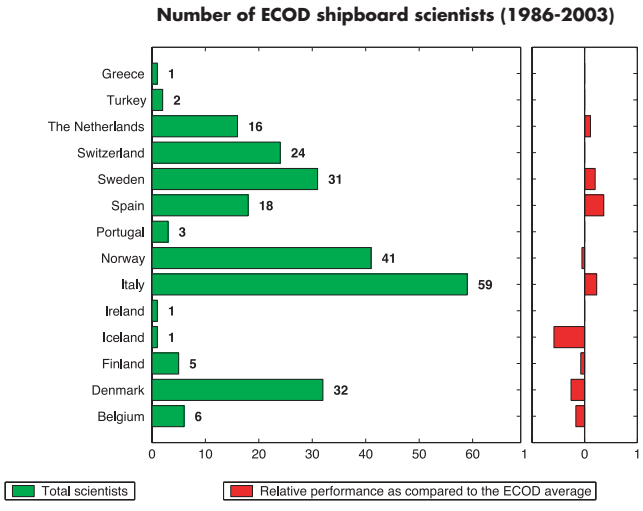


Figure 7. Overview of ECOD performance with regard to shipboard participation

Since the degree of involvement in the program is not only measured by shipboard participation, which in fact is a contracted benefit, the sample requests were also included *(figure 8)*. This shows that science communities in some member states were more active than others in shore based science activities. Reasons for this may be related to the existence of national funding programs of ocean science programs that provide the community with the resources to work on ODP samples.

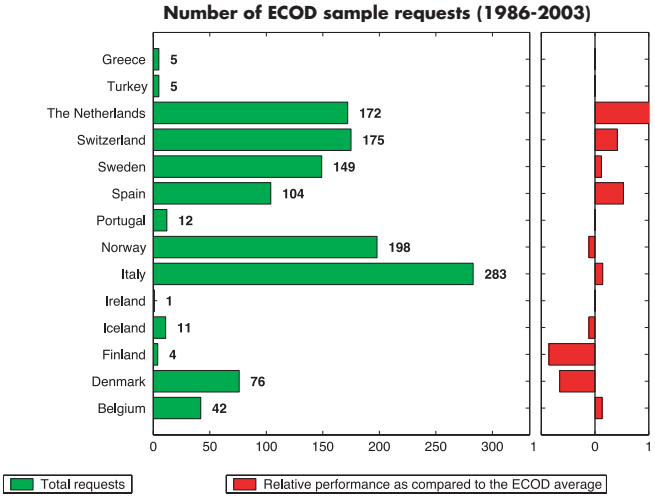


Figure 8. Overview of ECOD performance with regard to the number of sample requests made to the ODP-TAMU curation database

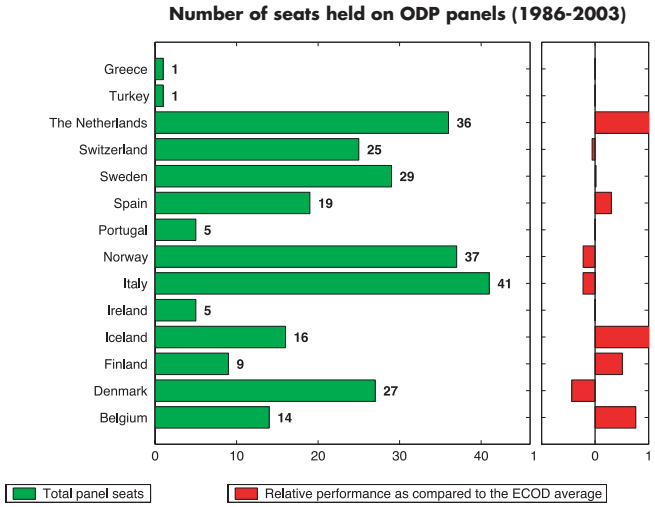


Figure 9. Overview of ECOD performance with regard to the level of participation in the ODP Planning Structure

Representation on ODP panels and committees *(figure 9)* has traditionally not directly been linked to the level of contribution and as such reflects the level of involvement with the program. Minor deviations are observed but clearly some countries were closely involved in the program structure, especially the final years. Again, a point to make is that this does not reflect the actual level of involvement since it is not necessarily the number that counts.

The number of PhD projects and proposals (*figures 10 and 11*, respectively) are other measures of involvement in the program.

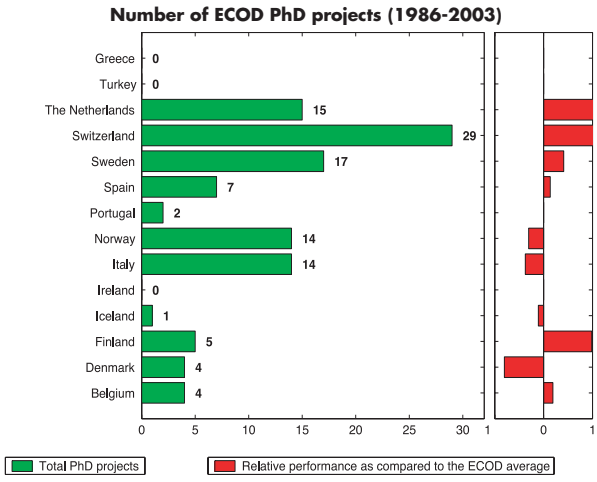


Figure 10. Overview of ECOD performance with regard to the number of PhD projects based wholly or partly on ODP related material

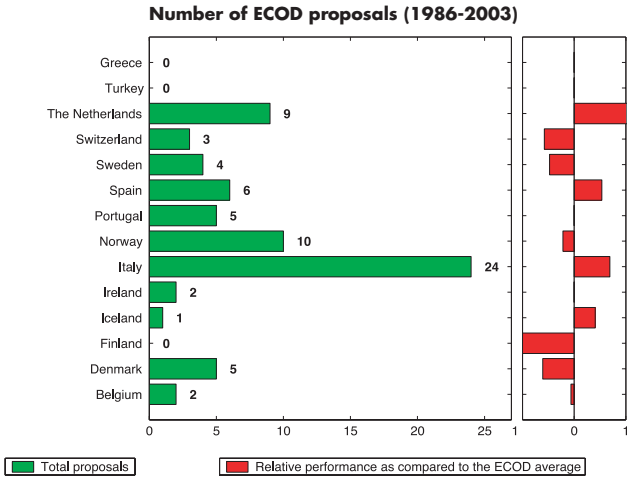


Figure 11. Overview of ECOD performance with regard to the number of ODP proposals with an ECOD scientist as lead proponent

However, it must be noted that (as earlier mentioned) national funding programs seriously affect the number of PhD projects.

Finally, the number of publications is one of the key parameters for involvement and success of the program (*figures 12 and 13*, respectively). It must be noted here that the number of publications was derived from both ODP sources and the national representatives and carefully scrutinised *(see Annexe 2)*. The official numbers provided by ODP are significantly higher but do include many abstracts, repetition of ODP Volumes as well as double counts. The number of publications per year shows a dramatic increase in the first 4 years of the program followed by stabilisation; a peak in 1995 and gradual decrease from 1998 onwards. The latter may be explained by the fact that many of the scientific contributions are not yet printed as they are included in special volumes outside ODP Reports, which have a significant lag time for publication, which are typically several years after the completion of the project. The total number for the ECOD consortium is comparable to those for other European members, such as Germany and the United Kingdom. Within the consortium, however, there is a certain variation that may be a function of national funding programs and/or the size of the community.

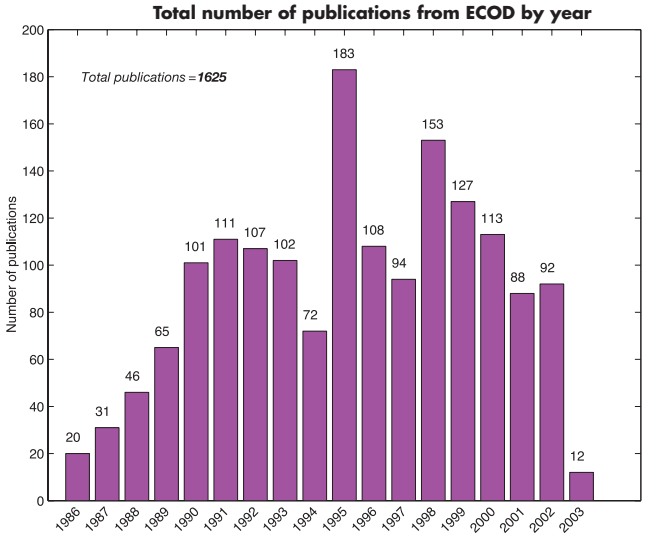


Figure 12. Overview of the total number of ODP related publications produced by ECOD by year for the period 1986-2003. The tally does not include abstracts or citations referencing the full scientific party of an ODP leg

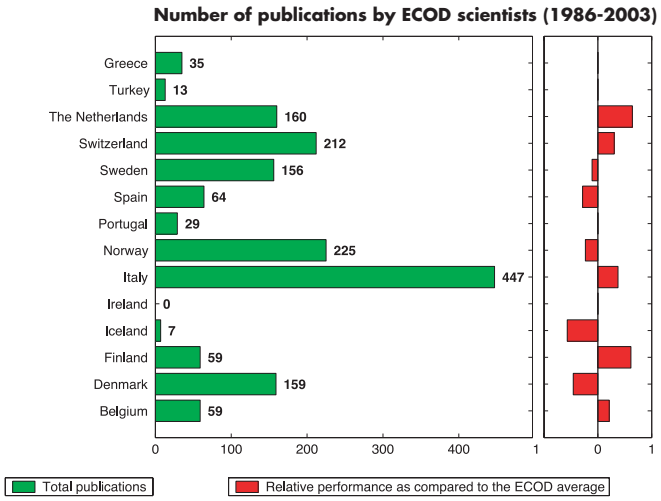


Figure 13. Overview of ECOD performance with regard to the number of ODP related publications by the ECOD countries

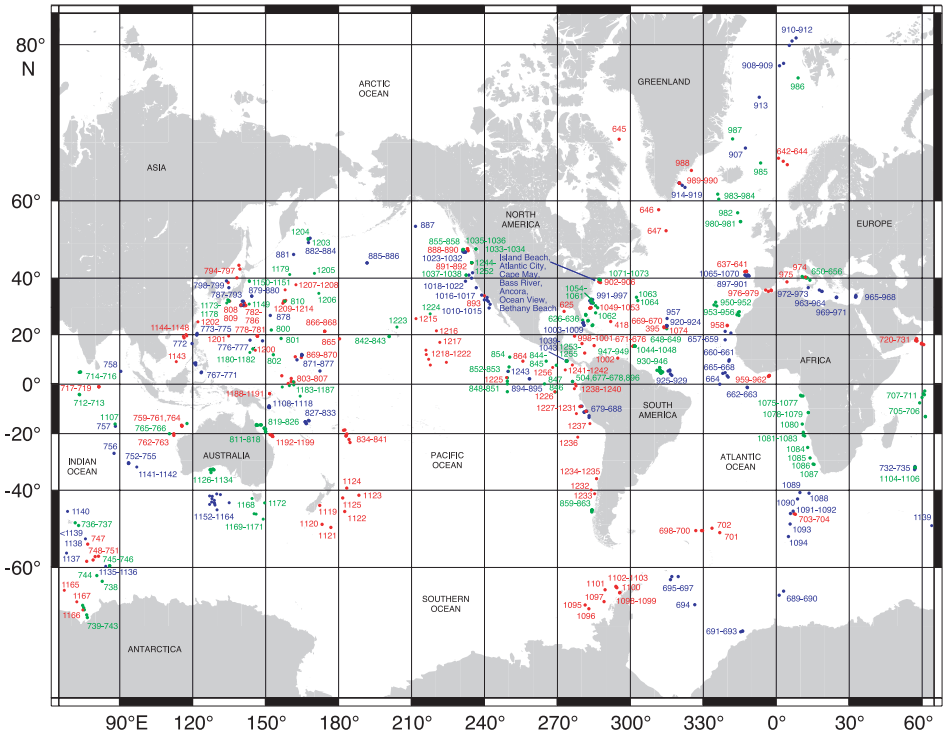
In summary, the relative performance of the ECOD members can be explained and interpreted in many ways and we leave it up to the reader to do so. However, in general it shows that ECOD members received scientific return on invested membership fees. It also shows that some members were able to increase their benefits through national programs and, finally, it suggests that the size of the national scientific community has not always been balanced by the level of contribution. Clearly, the consortium has been very successful, not only demonstrated by the level of scientific participation and involvement, but also by showing how well the consortium integrated and balanced national scientific interests. The degree of success in this respect is confirmed by the fact that the ESCO Terms of Reference were largely adopted by the ECORD Council for the ECORD Science Support and Advisory Committee (ESSAC), including the voting rights and secretary that rotates with the Chair.

The Transformation – The Beginning of a New Era in Ocean Drilling

ODP has had the tradition to invite leading scientists to plan ocean research science many years ahead of drilling. In April 1994, the Long Range Planning subgroup of the JOIDES Planning Committee began developing the final plan for the ODP phase. They received input from JOIDES advisory panels, JOIDES member countries, ODP committees, and other international community science programs and in March 1996 generated the "Long Range Plan Into The 21st Century: Understanding Our Dynamic Earth Through Ocean Drilling" (http://www.joiscience.org). The brochure clearly illustrates that although major achievements have been made during DSDP and ODP, drilling has also shown how little we know of the sediment and rock under the oceans. Chris Harrison, the Chair of the JOIDES Executive Committee, nicely phrased (in "ODP Highlights") why society needs to continue exploring the world's oceans. So far, about 1700 holes were drilled in the world's oceans. The map of drilled sites is impressive *(figure 14)* but also emphasizes how much of the ocean floor remains to be explored. As Cesare Emiliani said "The next few decades are likely to witness deep environmental crises, crises we will be able to cope with only through a clear understanding of the complex, delicate system, of which we are part."

One of the shortfalls of ODP that was clearly recognised by the authors of the Long Range Plan was the limited access the *JOIDES Resolution* (ODP's primary drill ship through the year 2003) had in the world's oceans. They realised that the success of the program into the 21st century would depend on expanding the capability and provisions for access to at least two deep-sea drilling platforms – one with the capabilities of the present *JOIDES Resolution* and another with deep-water well-control (riser) capabilities. In addition, they advised ODP to consider expanding operations by using alternate or mission specific platforms. Only the joint operation of these three different platforms will allow access to the major scientific themes (the deep biosphere and the sub-seafloor ocean, environmental change, processes and effects, and solid earth cycles and geodynamics) that are the core of the new Integrated Ocean Drilling Program Initial Science Plan, 2003-2013 *(figure 15)*.

Figure 14



ODP Legs 100–206, Sites 625–1256

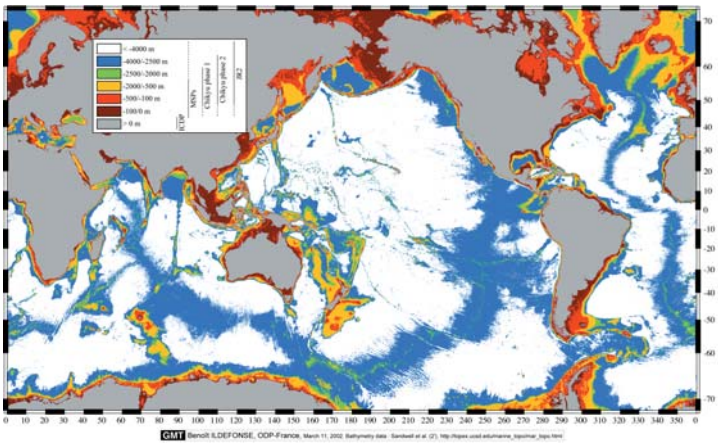


Figure 15. Bathymetric map showing the operational coverage of the various IODP platforms (MSP, red to yellow; the refurbished JR, yellow to blue; the Chikyu, yellow to blue). The Chikyu will operate in very deep water, at plate boundaries or in hydrocarbon-prone environments. Clearly, the transition to IODP dramatically expands the sampling area and therefore scientific coverage for the scientific community (provided by Benoit Ildefonse).

The Ministry of Education, Culture, Sport, Science and Technology (MEXT) of Japan is currently completing construction of a heavy drill ship to address deep drilling objectives in the new program. Their vessel, the *Chikyu* (which means Earth), launched in January 2002, will undergo outfitting and testing in 2003-2006, and will be available for IODP operations in late 2006. The Japan Marine Science, Technology and Engineering Centre (JAMSTEC) will operate the vessel for IODP. The state-of-the-art scientific drilling vessel will initially have the capability to operate in areas with water depth up to 2,500m, but will later be upgraded to a 4,000m capability. The vessel will be equipped with 10,000m of drill string, which means the vessel can drill more than 7,000m beneath the sea floor in 2,500m water depth. A riser drilling system, with its capabilities proven in the oil industry, will be used to facilitate drilling through formations that are difficult to drill using current riser-less scientific drilling methods. The system will allow us to recover/collect core samples (columns of sediments and rocks) for analysis and study, to measure the formation properties by logging instruments, and to perform long term monitoring in the hole. Only very recently, March 2003, the US National Science Board has approved release of a solicitation for a U.S. contractor to manage the scientific and drilling operations of the light drilling vessel to be supported by the NSF for IODP. It will be designed to include the operation of an initial vessel to be used in 2004 and 2005, as well as the selection of a long-term drill ship which will undergo extensive conversion and scientific outfitting in 2005, which will be used for the remainder of IODP.

Provision for the mission specific platform – or alternate platform – capability was assumed in 2001 by European scientists who initiated the Joint European Ocean Drilling Initiative (JEODI, a European 5th Frame Work Program) that aimed to bring a distinctive European component to a new era of scientific drilling due to commence in Autumn 2003. This Thematic Network (TN) brings together all the major member states (currently 15) involved in scientific ocean drilling. The TN-plan emphasised: 1) European experience and skill in using and operating "alternative platform" drilling technologies to improve the program's shallow-water drilling capabilities, 2) Arctic Science, with drilling of the almost wholly unexplored Arctic Ocean, 3) provision of shore-based laboratories and other facilities to handle, process, curate and store core derived from these drilling activities and, 4) creation of a management structure and an outreach program for the new era of the Integrated Ocean Drilling Program (IODP) in Europe. For participation in IODP, European countries have signed a Heads of Agreement to enter as a single consortium called the European Consortium for Ocean Research Drilling (ECORD, see *http://www.jeodi.org/models/fjte.php*). In a way much different from the past, Europe will then not only benefit from a worldwide infrastructure, but also will be able to play a major role in defining the science of the program, in

developing its technological know how and influencing the operation of IODP by providing mission specific platform capability. This may also include the design and construction of specific small-scale platforms, new exploration devices for sampling and geophysical investigation in bore-holes, long-term monitoring of subsurface parameters, as well as larger vessels, such as one with drilling and ice-breaker capabilities for the Polar Oceans.

ECORD and its Role in IODP

As earlier outlined, the European Consortium for Ocean Research Drilling (ECORD) assumed a greater role in IODP through, amongst others, providing mission specific platform capability. To accomplish this, European funding agencies have been proactive in shaping IODP through participation in planning conferences, in the International Working Group (IWG) and the Interim Science Advisory Structure for IODP (iSAS). At the end of 2001, funding agencies took the initiative to draft a Heads of Agreement, which outlines how Europe plans to become a significant partner, jointly with the USA and Japan. The operation of the agreement will form a Memorandum of Understanding through the provision of Annexes detailing, amongst other considerations, membership duration, ECORD structure and financial contributions. Accordingly, the European funding agencies that are committed to support the planning and launch of IODP through their participation in IWG, formed an interim council on January 6th 2002. Subsequently the ECORD interim Council has adopted the following general European principles on the management structure:

1. A concerted action by the European scientific community together with funding agencies has resulted in the formation of the European Consortium for Ocean Research Drilling (ECORD) to provide a single European entity in IODP.
2. European Funding Agencies have joined forces under a Heads of Agreement to form an ECORD interim Council for achieving the status of a Lead Agency in IODP comparable to MEXT and NSF. The interim Council is currently the governing body for ECORD.
3. Under IODP the ECORD Council will provide oversight for all ECORD activity.
4. ECORD is advised on scientific and operational planning and coordination by an ECORD Science Support and Advisory Committee (ESSAC). ESSAC will be supported by a Science Office. The Science Office will be a component part of ECORD.
5. The Council will designate a European Management Agency (EMA) to act as a single European voice in IODP. EMA is a component part of ECORD. The chair member organisation of the interim Council will act as interim EMA.
6. The Council will appoint a European Science Operator (ESO) for contracting alternative platforms and related scientific support within IODP. ESO is a component part of ECORD. The ESO will be contracted by EMA. The JEODI network acts as interim ESO for ECORD.
7. ESO will be the (primary) MSP Implementing Organisation for IODP. The ESO will have a formal arrangement with EMA for this activity and will operate in the best interest of IODP and all member organizations, without preference.
8. Through appropriate formal arrangements EMA will make financial contributions to IODP commingled funds and receive funds for MSP science operation costs.
9. EMA will provide funds directly to ESO for MSP science and platform operations costs.

For the scientific and operational planning and coordination of Europe's contribution to and participation in the Integrated Ocean Drilling Program (IODP) the ECORD interim Council formed the ECORD Science Support and Advisory Committee (ESSAC). ESSAC's main purpose is to maximise Europe's scientific and technological contribution to IODP. For this ESSAC tasks are:

1. Advising ECORD funding organisations on IODP issues.
2. Responding to the ECORD Council on requests for evaluation of its activities and initiation of evaluations of the European scientific input to IODP.
3. Interacting with the IODP Central Management Office (CMO), SAS and IODP scientific bodies and, when appropriate, reporting to the ECORD Council, the EMA and ESO.
4. Nominating representatives (delegates and alternates) on SAS.
5. Coordinating applications for shipboard participation including nominations to the SAS, and reviewing the division of the quota of shipboard scientists between participating members.
6. Advising ESO on the development of scientific planning and advising on priorities for ECORD. The ESO will receive instructions from the IODP CMO on the highest ranked MSP proposals. Based on these instructions the ESSAC shall assist the ESO in preparing a Science Operations Plan and budget for MSP operations which is to be presented to the EMA and the ECORD Council.
7. Assist and advise EMA on the formulation of proposals for funding European related infrastructure to ensure a constant flow of funds for MSP operations by coordinating and preparing funding proposals to the European Commission and other funding bodies.
8. Initiating and monitoring Workshops and syntheses of European programs.
9. Providing stimulation and guidance for the writing of drilling proposals in accordance with the IODP Initial Science Plan and encouragement of IODP-related activities among participating countries.
10. Encourage (a) innovative downhole measurements and experiments, (b) innovative science and technology development, and (c) the formulation of long-term integrated studies.
11. Assist and advise the EMA and ESO on the public outreach within and beyond ECORD member countries to raise public awareness and inform funding agencies, the public, the scientific community, schools etc. on scientific advances made through IODP drilling, and the benefit to society of the work carried out though Europe's participation in IODP.
12. Assist and advise the EMA on extending the scientific base of the consortium by outreach to other countries not signed up to ECORD – encouraging new members to join ECORD.

For the ToR of ESSAC, the interim ECORD Council adopted several important aspects from the ESCO Terms of Reference (ToR) among which a Secretariat that rotates with the Chair and the principle of proceeding through consensus only to be replaced by a majority vote when impossible. The designated European Science Operator (ESO) will receive funding through EMA and implement science plans that have been reviewed and ranked by the IODP Science Committee for mission specific platform operations. ESO will contract alternative platforms and provide related scientific support within IODP. The European Management Agency (EMA) will be a European public sector body, with a chain of public responsibility and accountability. Under the Heads of Agreement the ECORD interim Council has adopted

management principles for EMA, according to which EMA's role and functions would be:

1. Preparing and signing binding memoranda with ECORD members.
2. On behalf of ECORD members, signing of contracts and memoranda with MEXT, NSF, and other IODP funding agencies, on implementation of IODP.
3. Oversight in IODP, together with MEXT, NSF and other funding organisations of IODP based on direction given by the ECORD Council.
4. In consultation with ESSAC, providing the ECORD Council with an ECORD program plan and budget for each upcoming fiscal year, consistent with the IODP program plan and budget.
5. Issuing requests for a timely contribution by ECORD members.
6. Administering the financial contributions from the ECORD members and the other funding sources, made in support of IODP. Disbursing of funds for ESSAC and ESO activities according to the annual ECORD program and budget plan.
7. Submission of a single European contribution to IODP commingled funds, to cover science operations costs of IODP.
8. Requesting and administering Science Operations Costs (SOC's) provided by non-ECORD IODP partners for MSP drilling operations.
9. Contracting ESO for the deployment of mission-specific platforms in IODP and for providing supporting scientific services.
10. Instruct ESO to deliver the annual science operations plan.
11. Ensure that the public and private liabilities associated with the European contribution to IODP are understood and mitigated, and that appropriated liability insurances are in place.
12. Reporting regularly to the ECORD Council on its actions and issues of mutual interest.
13. Providing the ECORD Council, and funding sources, when appropriate, with an annual audited financial report.
14. In consultation with ESOC, providing the ECORD Council with reviews of scientific and technological achievements of IODP.
15. Providing the IODP Central Management Office with a mission-specific drilling activity report.
16. Ensure the scientific interests of the contributors to IODP are maximised and that the public is informed of the scientific and technological advances in IODP.

In the fall of 2002, the interim Council of European Consortium for Ocean Research Drilling (ECORD) was seeking expressions of interest in the European Management Agency (EMA) as well as the European Science Operator (ESO). A consortium led by the British Geological Survey has been awarded the role of ECORD interim Science Operator – iESO, building upon its unique experience in conducting Mission Specific Platforms operations. In the spring of 2003, the Institut National des Sciences de l'Univers of CNRS, France, has been awarded the role of iEMA.

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The Future – Integrated Ocean Drilling Program

On October 1st 2003 the Integrated Ocean Drilling Program will come into being and a new era of scientific exploration of the World's Oceans will commence. A long period of preparation for this new program has translated into a renewed vision or, as it is called, an "integrated Earth view" that should provide us with a better understanding of system Earth and its relationship with its inhibitors and their effects on nature. This new strategy combined with a multiple platform approach, is directed towards exploring and discovering:

1) The deep biosphere and the sub-seafloor ocean. Vast microbial populations live within a broad range of temperatures and pressures and characterise these extreme environments. The microbial ecosystem is now considered a potential source of new biotechnical applications, such as water treatment and microbially enhanced oil recovery. IODP will probe this environment globally, providing the first comprehensive characterisation of this ecosystem below the seafloor.

2) Environmental change, processes and effects. Ocean sediments provide high resolution records of Earth's climate fluctuations on four time scales: tectonic (longer than about 0.5 m.y.); orbital (20 kyr to 400 kyr); oceanic (hundreds to a few thousand years); and anthropogenic (seasonal to millennial). IODP will recover cores from as yet poorly sampled environments, such as the Arctic Ocean basin, atolls, reefs, carbonate platforms, continental shelves beneath very shallow waters and settings where sediments accumulate very rapidly (especially anoxic basins) and will allow a more sophisticated analysis of the causes, rates, sequencing and severity of change in Earth's climate system over all time scales. They also permit a more thorough investigation of the relationship among climate extremes, climate change and major pulses in biological evolution.

3) Solid earth cycles and geodynamics. The vast amount of energy stored within the Earth is regularly demonstrated through often destructive events such as earthquakes, volcanic eruptions and tsunamis. Using new IODP technologies researchers will sample and monitor regions of the seafloor that currently have the greatest mass and energy transfers, as well as regions where these transfers were largest millions of years ago. IODP will also drill deeper into Earth's crust than ever before, providing new insight into long-standing questions about the processes related to oceanic crust formation and deformation, including the origin of marine magnetic anomalies and the role of fluids in earthquake generation. As delicately phrased by the authors of Integrated Ocean Drilling Program Initial Science Plan, 2003-2013: "As Earth grows smaller, mankind's relationship with it must improve – IODP will help to provide the information that can make that possible". Europe, united in a partnership called ECORD, is planning for an instrumental role to make this happen.

Annexe 1

ECOD Countries

Belgium

ODP Highlights from a Belgium perspective

Belgium, with the financing of the FNRS (Fonds National de la Recherche Scientifique), was one of the key participants in the establishment of the 12-member European Science Foundation Consortium on ODP (ECOD) in 1985. The ODP membership allowed the participation of a Belgian shipboard scientist every other year and has contributed to an internationalization and vitalization of Belgian marine geoscience research. Six Belgians have been shipboard scientists one or two times. Four PhD degrees are based on ODP related material. The number of ODP related papers published by Belgian scientists between 1986-2002 is over 50.

ODP related research in Belgium had a good level of activity and comprises three main fields: paleoceanography and sedimentology, geochemistry and isotope geochemistry, petrology with applications to carbonate mud mounds, an extremely slow spreading ridge (SWIR) and large igneous provinces (Kerguelen Plateau and Ontong-Java).

The ODP drilling in the Kerguelen Plateau area (Leg 183) in the Indian Ocean came back with an interesting range of rock compositions, including garnet gneiss in the form of pebbles in a conglomerate interlayered in the flood basalts of Elan Bank, a salient off the Kerguelen Plateau (KP). The geochronology and geochemical study of those pebbles indicates an affinity to crustal rocks from India, particularly those of the Eastern Gahts Belt and its possible East Antarctic corollary, the Rayner Complex. In parallel, the geochemical studies of the flood basalts drilled on the Kerguelen Plateau demonstrates an interesting evolution of interactions between Kerguelen plume derived-material with, 1) continental crust/lithosphere in the early stages of formation of the Indian Ocean and mostly evidenced in the southern and central KP, 2) depleted material, source of the Indian ridges (NKP), 3) Kerguelen plateau lithosphere for the latest stages of activity on the Kerguelen Archipelago itself. The diverse tectonic settings, from an environment of continental break-up, to ridge-centered and then to purely intraplate, yielded a wide variation of rock types and chemical compositions, and accounts for the amazing heterogeneity of Kerguelen mantle plume volcanic products, especially in comparison to the striking homogeneity of the Ontong-Java basalts in the Pacific Ocean. The Brussels group, with the financial support of the Communauté Française de Belgique (ARC grant 98/03-233), actively participated in 9 out of the 14 papers of a special of Journal of Petrology (Origin and Evolution of the Kerguelen Plateau, Broken Ridge and Kerguelen Archipelago) that came out in July 2002.

Belgium Shipboard Scientists Legs 101 - 210

118	Jan G. H. Hertogen	Geochemist
121	Dominique Weis	Igneous Petrologist
153	Jane Barling	Igneous Petrologist
176	Jan G.H. Hertogen	Geochemist
183	Dominique A.M. Weis	Igneous petrologist
192	Stephanie P. Ingle	Igneous Petrologist

Belgium Student Trainee Legs 101 - 210

183	Dimitri Damasceno

Belgium post-cruise scientists

117 Fagel N.
127 Fagel N.
128 Fagel N.
149 Weis D.
183 Ingle S.
183 Scoates J. S.
183 Mattielli N.
192 Weis D.

Belgium participation in the ODP Planning Structure (1986 - 2003)

1986 - 1988

- J. Hertogen, (D) (IHP) Information Handling Panel
- J. Hertogen, (D) ESCO
- J. Michot, EXCOM Executive Committee and ODP Council (Via ESF)

1989 - 1992

- J. Hertogen, (SRDPG) Sedimented Ridges Detailed Planning Group (1989)
- J. Hertogen, (NARMDPG) North Atlantic Rifted Margin Detailed Planning Group (1991)
- J. Hertogen, (D) ESCO
- J. Michot, EXCOM Executive Committee and ODP Council (Via ESF)
- D. Weis, (D) (SMP) Shipboard Measurement Panel

1993 - 1996

- D. Weis, (D) (SMP) Shipboard Measurement Panel
- D. Weis, (D) (LITHP) Lithosphere Panel
- J. Hertogen, (D) EMCO
- D. Weis, (A) EMCO
- D. Weis, (D) ESCO

1997 - 2000

- D. Weis, (D) ESCO
- J. Hertogen, (A) ESCO
- J. Hertogen, (D) EMCO
- D. Weis, (A) EMCO
- D. Weis, (A) (SSEPs) Science Steering Evaluation Panel (Earth's Interior)

Past and present Belgian ODP Proposals

- 457 F.A. Frey, M.Coffin, **D. Weis**, M. Munschy, M. Schaming, L. Könnecke, J. Zachos, M. Storey, A. Saunders, R. Duncan, M.S. Pringle and S.L. Goldstein. Future ODP Drilling on the Kerguelen Plateau and Broken Ridge: Determining the Origin, Growth and Evolution of a Very Large Igneous Province in the Southern Indian Ocean
- 573-Full2 **J.P. Henriet** Modern Carbonate Mounds: Porcupine Drilling

Belgium PhD projects based on ODP related material

- Dirk, N., 1992. Geochemistry of lanthanides in carbonate sediments from the Bahamas (ODP Leg 101). - PhD Thesis - University of Leuven, Belgium (supervisor Prof. I. Hertogen)
- Kieffer, B., 2002. Petrological and geochemical study of basalts from oceanic (Kerguelen) and continental (Ethiopia) plateaus. - PhD Thesis - Université de Grenoble, France (supervisor Prof. N. Arndt) - co-tutor University of Brussels, Belgium (supervisor Prof. D. Weis).
- Doucet, S., 2002. Time-integrated geochemical and isotopic studies of stratigraphic volcanic series on the Kerguelen Archipelago. - PhD Thesis - University of Brussels, Belgium (supervisor Prof. D. Weis) - co-tutor Université de St. Etienne, France (supervisor Prof. A. Giret).
- Ingle, S., 2003. Determining the origin, growth and evolution of a very large igneous province in the Southern Indian Ocean. - PhD Thesis - University of Brussels, Belgium (supervisor Prof. D. Weis).

Belgian hosting of ODP related workshops and meetings

- Fall 1989, ESCO Meeting, Leuven, Belgium
- August 2002, SCICOM / IPC, University of Ghent, Belgium

Belgian participation in ODP related workshops and meetings

- January 8-14 1989. Texas A&M University - College Station, Texas - U.S.A. ODP Leg 121 Post-cruise meeting.
- May 13 1990. Palermo, Italy. ESCO Meeting.
- 14-16 May 1990. Terrasini, Palermo, Italy. 3rd ECOD Workshop, Geology of the Oceans.
- 3-7 December 1990, Fall AGU meeting, San Francisco, USA: ODP special session on the Indian Ocean.
- 15-19 July 1990, University of Wales - Cardiff (Wales), Joides Indian Ocean Workshop.
- 23-25 February 1993, College Station, Texas, USA. SMP.
- May 14 1993. Strasbourg, France. ESCO Meeting.
- 27-28 September 1993, Marseille, Luminy, France. SMP.
- 15-16 November 1993. Granada, Spain. ESCO Meeting.
- February 28 1994. Copenhagen, Denmark. ESCO Meeting.
- 28-30 March 1994, College Station, Texas, USA. SMP.
- 17-20 September 1994, Davos, Switzerland. 5th ECOD Workshop.
- 25-27 September 1994, Las Palmas, Spain. SMP.
- 7-10 March 1995, College Station, Texas, USA. SMP.
- April 11 1995, Strasbourg, France. Joides ESF meeting.
- 6-13 October 1995. Cyprus. LITHP meeting.
- 2-11 March 1996. Portland, Oregon, USA. LITHP meeting.
- 26-28 May 1996. Woods Hole, Massachusetts, USA. Drilling in the 21st century.
- 3-5 October 1996. Nancy, France. SGPP meeting.
- 5-10 October 1996. Kanazawa, Japon. LITHP meeting.
- 21-24 July 1997. Tokyo, Japon. Concord (Conference on Cooperative Ocean Riser Drilling) meeting.
- 16-17 August 1997. Stockholm, Sweden. ESCO Meeting.
- 8-12 December 1997, Fall AGU meeting, San Francisco, USA: Special session on the Kerguelen Plateau and Archipelago, in preparation of Leg 183.
- September 20 1998. Edinburgh, UK. ESCO Meeting.
- September 21-22 1998. Edinburgh, UK. European Ocean Drilling Forum.
- March 12 1999. Oulu, Finland. ESCO Meeting.
- March 28 1999. Strasbourg, France. EMCO Meeting.
- 26-29 May 1999. Vancouver, Canada. Complex (Conference on Multiple Platform Exploration) meeting.
- August 2-6 1999. Texas A&M University - College Station, Texas - U.S.A. ODP Leg 183 Post-cruise meeting.
- September 29-October 1 1999. Amsterdam, Netherlands. 7th ECOD Conference.
- 3 October 1999. Amsterdam, Netherlands. ESCO Meeting.
- April 9-11 2000. La Grande Motte - France. European ODP Forum.
- May 30 - June 3 2000. Washington D.C. - USA. AGU Spring meeting special session on ODP Leg 183: “Origin and Evolution of a Large Oceanic Plateau, the Kerguelen Plateau-Broken Ridge: Geological, Geochemical and Geophysical Results From the 1998/99 ODP Leg 183 and Related Research Projects”.
- Januray 8-9 2001. Brussels, Belgium. Alternate Drilling Platforms - Europe as the 3rd Leg of IODP.

Denmark

ODP Highlights from a Danish perspective

The main benefit of the Danish participation in ODP is the chance for some 30 geo-scientists to take part in really big science onboard "*JOIDES Resolution*" and to create a network with different specialities from all over the world.

With the words of a young scientist: " …a tremendous learning and personal experience, that I will, without doubt benefit from in the future." Below a few highlights of the subjects which have been in focus for the Danish ODP activities and have been maintained through close international co-operation. Several others could be mentioned.

The hunting for the start of Ice Ages in the icy high North Atlantic or Antarctica have been an important part of the Danish ODP related activities. The first attempt was in the sea between Arctic Canada and Greenland. Counting stones dropped from icebergs through time the boreholes from Leg 105 showed that glacial periods began before 2.5 Ma and even some ice rafting occurred even back to 8 Ma. The next big step forward (backward) was Leg 119 to Prydz Bay in Antarctica. After sailing as far away as possible in the Indian Ocean we sampled a peculiar mixture of sand stones and clay called till. Here, the drilling results suggested that a large glacial complex had reached the shelf edge of Antarctica during the earliest Oligocene time and even possibly during the late middle Eocene (42.5 Ma ago). Even in the deep Indian ocean we could follow how the biosphere reacted to the cooling.

Was the start of the Ice Age simultaneous for the northern and the southern hemispheres? Leg 151 investigated the paleoceanography of the Greenland Sea and the Fram Strait. Here cool to temperate waters start to develop during the latter part of the Oligocene. The first signs of ice cover and icebergs developed during late Miocene, earlier (6.4 Ma) on the Iceland Plateau, later in the northern corner of the Atlantic Ocean. The next attack with Danish support was in East Greenland waters. Here the seismic structure of has been studied by Danish expeditions since 1979. Through ODP Legs 152 and 163 we finally got the section of boreholes of the East Greenland shelf at 63^0 N. Here dropstones and tills suggested ice to sea level back as far as 7 Ma.

The same legs were also a contribution of a number of legs studying how volcanic activity plays a major role when continents split apart and oceanic crust starts to form. These ODP studies were a very important argument for the creation of the Danish Lithosphere Centre. The Centre ODP studies were closely linked with similar studies onshore Greenland, Iceland and Faeroes. A fascinating picture of stretching continents, intense volcanic activity along the rifted margins and the subsequent subsidence of land areas have emerged from the studies. Other aspects of the creation of ocean crust was studied with Danish participation in remote places such as Ontong-Java Plateau (Leg 192), Woodlark Basin off New Guinea (Leg 180), The Indian Ocean (Leg 176). The centre has been very active in the formulation in the Science plans for ODP and IODP 2003-2004.

The continuous cores and the good control of age provides an excellent background for the study of how sediment is compacted and gradually changed from soft mud to limestone or other solid sediments. Studies on ODP borings has served as a model for understanding of the formation and compaction of the oil-bearing limestone in the North Sea (Legs 130 and 182).

Danish Shipboard Scientists Legs 101 - 210

104	Günther Schønharting	Paleomagnetist
105	Tommy Cederberg	Organic Geochemist
105	Ole Bjørslev Nielsen	Sedimentologist
115	Naja Mikkelsen	Paleontologist (diatoms)
119	Birger Larsen	Co-Chief Scientist
127	Peter Thy	Igneous Petrologist
130	Ida Lykke Lind	Sedimentologist
135	Niels Abrahamsen	Paleomagnetist
140	Lars O. Boldreel	Physical Properties Specialist
142	Prem V. Sharma	Paleomagnetist
144	Bjørn Buchardt	Organic Geochernist
151	Birger Larsen	Physical Properties Specialist
152	Hans Christian Larsen	Co-Chief Scientist
152	Lotte Melchior Larsen	Igneous Petrologist
152	Holger Lykke-Andersen	Logger/Seismic Statigraphic Specialist
155	Naja Mikkelsen	Diatom/Foraminifer Paleontologist
156	Troels Laier	Organic Geochemist
163	Hans Christian Larsen	Co-Chief Scientist
163	Lotte M. Larsen	Petrologist
163	Christian Tegner	Igneous Petrologist
165	Ida L. Lind	Physical Properties Specialist
166	Niels H. Schovsbo	Organic Geochemist
174A	Mai Kirstine Borre	Physical Properties Specialist
176	Paul Martin Holm	Igneous Petrologist
180	C. Kent Brooks	Igneous Petrologist
182	Mads Huuse	LDEO Logging Trainee
182	Finn C. Surlyk	Sedimentologist
183	Mai Kirstine Borre	Physical Properties Specialist
189	Marianne Grauert	Sedimentologist
191	Rikke Øhlenschlaeger Pedersen	Paleontologist (Foraminifer)
192	Peter Riisager	Paleomagnetist
196	Martin Bak Hansen	LWD Specialist

Young Danish scientists who participated on ODP legs

195	M.Kristensen	Student trainee
200	Igun Nielsen	Student trainee
206	A.Schack von Brockdorf	Student trainee

Danish participation in the ODP Planning Structure

1986 - 1988

- B. Larsen, (D) (SSP) Site Survey Panel
- K. Brooks, (A) Western Pacific Regional Panel
- H.C. Larsen, (D) Atlantic Regional Panel

1989 - 1992

- H.C. Larsen, (D) (TECP) Tectonics Panel
- N. Balling, (A) (DMP) Downhole Measurements Panel
- B. Larsen, (D) (SSP) Site Survey Panel
- B. Kent, (WPDPG) Western Pacific Detailed Planning Group (1989)
- H.C. Larsen, Chairman, (NARMDPG) North Atlantic Rifted Margin Detailed Planning Group (1991)

1993 - 1996

- B. Buchart, (A) (SGPP) Sedimentary and Geological Processes Panel
- C. Doyle, (A) (PPSP) Pollution prevention and Safety Panel
- H.C. Larsen, (D) (PCOM) Planning Committee
- H.C. Larsen, (D) (ARP) Atlantic Regional Panel
- H.C. Larsen, (D) (TECP) Tectonics Panel
- H. Lykke-Andersen (A) (SSP) Site Survey Panel
- N. Mikkelsen (A) (IHP) Information Handling Panel
- F. Surlyk (D) (SGPP) Sedimentary and Geological Processes
- S. Egelund (ODPC) ODP Council H.C. Larsen ESCO Chair (92-95)
- N. Mikkelsen ESCO Science Coordinator (92-95)

1996 - 1998

- H. Lykke-Andersen (D) (SSP) Site Survey Panel
- S, Engelund EMCO Chair (95-98)

1997 - 2000

- N. Mikkelsen (D) ESCO
- N. Mikkelsen (A) EXCOM Executive Committee
- A. Kuijpers (A) ESCO
- S. Bjørek (D) (SSEPs) Science Steering Evaluation Panel (Earth's Environment)
- B. Larsen (A) (SSEPs) Science Steering Evaluation Panel (Earth's Environment)
- H. Lykke-Andersen (D) (SSP) Site Survey Panel

2001 - 2003

- S. Bjørek (D) (SSEPs) Science Steering Evaluation Panel (Earth's Environment)
- H.C. Larsen (IPC) Interim Planning Committee
- B. Larsen (A) (PPSP) Pollution Prevention and Safety Panel

Past and present Danish ODP Proposals

- 392 **Larsen** A Mantle Plume Origin of the North Atlantic Volcanic Rifted Margin
- 393 **Larsen** Drilling the continent – Ocean Transition on the SE Greenland Volcanic Rifted Margin
- 394 **Kiørboe** Evolution of pre- and syn-volcanic extensional basins on passive volcanic continental margins
- 395 **Boldreel** Post-Breakup Compressional Tectonics on a Passive Volcanic Continental Margin
- 396 **Andersen** Testing of the Hot-Spot Model for the Origin of Volcanic Passive Continental Margins
- 459 **Kuijpers** Late Cenozoic history of Norwegian Sea overflow through the Faeroe-Shetland Channel
- 460 **Larsen** Proposal for drilling at the Southeast Greenland Volcanic Rifted Margin (NARM-Volcanic)

Danish PhD projects based on ODP related material

- Mai Borre, Technical University of Denmark, is assigned to a PhD-project on the burial diagenesis and physical properties of chalk from the Ontong Java Plateau (Leg 130) and from the North Sea.
- Lene Clausen, Geological Museum, University of Copenhagen: Sequence and seismic stratigraphical analysis of the late Neogene and Quaternary glaciomarine sediments deposited on the shelf and continental slope and upper rise offshore SE-Greenland (Leg 152 and Leg 163).
- Maigrhéad V. Ni Deshduna (University College, Galway, Ireland) has participated in the magnetic processing of marine magnetic data from Pre-site investigations for ODP-Leg 152 (East Greenland Margin), under the guidance of Niels Abrahamsen, University of Aarhus.
- Carsten Israelson, University of Copenhagen: Strontium isotope stratigraphy (Leg 144 and Leg 152).

Danish hosting of ODP / ECOD related workshops and meetings

- Drilling towards the 21st century: ODP in the Atlantic. Rungstedgaard Denmark May 6-8 1992
- JEODI Workshop. Preparing for Scientific Ocean Drilling in the Arctic: The site Survey Challenge, Schaffergaarden, Jan. 13-14 2003

Finland

ODP Highlights from a Finnish perspective

Much of the Ocean Drilling Program related research in Finland has been commitment at the University of Oulu, University of Helsinki and Geological Survey of Finland. Administrative functions have been shared between Åbo Academy and University of Oulu. Finland has been having a membership in this program through the European Science Foundation Consortium for Ocean Drilling (ECOD) since 1986. ODP has been a highly successful international cooperation in our general geoscientific activities. The cruise participations have offered a unique possibility to participate in international scientific work and create new knowledge on climatic history and dynamics of the Earth's interior.

The ODP related projects in Finland *(Table 1)* have concentrated to high-latitude climate history studies in North Pacific (Leg 145), North Atlantic (Leg 151) and Antarctica (Leg 188). The Earth's tectonic and interior processes have been studied in Chile Triple Junction (Leg 141) and Côte D'Ivoire-Ghana Transform Margin (Leg 159).

Table 1. A summary of Finnish participation to the ODP

Cruise	Leg description	Researchers involved	Publications
Leg 141; Chile Triple Junction	Represents the only presently active ridge-trench collision where the overriding plate is composed of continental lithosphere.	Kari Strand, Marko Matinlassi	1 MSc Thesis, 9 scientific publications, 8 conference abstracts
Leg 145; North Pacific Transect	The objectives were to collect high-resolution records of Miocene to Quaternary changes in ocean circulation, biological activity, and global climate.	Aarno Kotilainen, Mia Kotilainen, Arja Hokkanen, Petri Lintinen	1 PhD Thesis, 6 scientific publications, 2 conference abstracts
Leg 151; North Atlantic- Arctic Gateways I	During the Arctic summer of 1993, *JOIDES Resolution*, accompanied by the Finnish icebreaker MSV Fennica, recovered first scientific drill cores from the eastern Arctic Ocean, including material which records the earliest history of the onset of glacial climate in the Arctic.	Mattiina Ruikka, Kari Strand, Hanna Silvennoinen	1 MSc Thesis, 1 scientific publication, 2 conference abstracts
Leg 159; Côte D'Ivoire-Ghana Transform Margin Eastern Equatorial Atlantic	Drilled within continental crust adjacent to the continent-ocean transition along the transform passive margin. Represents the first deep-sea drilling to the tectonics of transform- margin development.	Kari Strand, Titta-Mia Kaivola	1 MSc Thesis, 7 scientific publications, 6 conference abstracts
Leg 188; Prydz Bay-Cooperation Sea, Antarctica: Glacial History and Paleoceanography	Drilled to decipher Cenozoic glacial history and paleo-environments of Antarctica. The drilled sites provide (1) records of the transition from East Antarctic preglacial to glacial conditions, (2) the variability of onshore erosion and glaciomarine depositional settings during latest Neogene, and (3) the transition from temperate to cold-climate glaciation since early Miocene time.	Kari Strand, Mattiina Ruikka, Jari Näsi, Jussi Peuraniemi, Katri Vaittinen, Hanna Silvennoinen, Karla Tiensuu, Juho Junttila	Under work: 1 PhD Thesis, 2 MSc Thesis, so far 2 scientific publications, 7 conference abstracts
Leg 208; Walvis Ridge	The proposed drill sites in the southern Atlantic Ocean will be used to reconstruct in detail the palaeoceanographic variations associated with several prominent episodes of early Cenozoic extreme climate change.	Henry Wallius	Under work as it was drilled 8 March to 9 May 2003

Life onboard *JOIDES Resolution*. Sedimentologists (from left) Dietz Warnke, Nicole Januszczak, Michele Rebesco and Kari Strand at intensive work in their lab during ODP Leg 188 to Prydz Bay, Antactica. Photograph by Alan Cooper.

Sedimentologists Michele Rebesco (left) and Kari Strand examine the very first core from Site 1165 of the continental rise off Prydz Bay, Antarctica. Photograph by Alan Cooper.

Young scientists Mattiina Ruikka and Juho Junttila have both benefit for the ODP in their thesis works and have also identified the successor program IODP as a challenge to continue their future scientific works. Especially, they are looking forward for new high latitude projects even in ice-covered regions. They have previous experience working with samples from both poles. Mattiina has proceeded well in studies on the southern part of Yermak Plateau north of Svalbard. The region is important water exchange areas between the Arctic Ocean and the Nordic Seas and clay mineralogy of sediments was detected to be well comparative with cyclic changes in climatic conditions of the area. Juho Junttila has concentrated to Plio-Pleistocene East Antarctica ice-sheet evolution and climate signals especially using clay minerals. The studied Site 1165 was drilled on the continental rise off Prydz Bay, East Antarctica to a total depth of 999.1 meters below seafloor. It recovered terrigenous and hemipelagic sediments of early Miocene to Pleistocene age. Of special interest is the sediment column between 0 and 50 mbsf which consists of well-preserved section of Pliocene-Pleistocene-age sediments which was then sampled with 10 cm intervals. Multiproxy study of this interval could show the intervals of expansions of the ice sheet across the continental shelves and Antarctic ice-sheet evolution. General aims are in better identify the provenance of the sediments and to reconstruct the nature of weathering on high latitude areas with reconstruction of the palaeoclimate.

Finnish Shipboard Scientists Legs 101 - 210

141	Kari Strand	Sedimentologist
145	Aarno Kotilainen	Physical Properties Specialist
159	Kari Strand	Sedimentologist
188	Kari Strand	Sedimentologist
208	Henry Vallius	Inorganic Geochemist

Finnish post-cruise scientists

141	Marko Matinlassi
145	Mia Kotilainen, Arja Hokkanen, Petri Lintinen
151	Kari Strand, Mattiina Ruikka
159	Titta-Mia Kaivola
188	Mattiina Ruikka, Jari Näsi, Karla Tiensuu, Juho Junttila

Young Finnish scientists who participated on ODP legs

- Johanna Suhonen participated Leg 178 as a student trainee then qualified as MSc and worked since now as an ODP Marine Laboratory Specialist in many ODP Legs including e.g. Leg 188.

Finnish participation in the ODP Planning Structure (1986 - 2003)

1989 - 1992

- C. Ehlers (ODPC) ODP Council
- H. Ignatius (ODPC) ODP Council

1993 - 1996

- K. Strand ODP National Working Group Member
- K.Strand (A) (SMP) Shipboard Measurement Panel

1997 - 2000

- C. Ehlers (D) ESCO
- A.K. Korja (A) (SSEPs) Science Steering Evaluation Panel (Earth's Interior)
- K. Strand (A) (SciMP) Scientific Measurement Panel

2001 - 2003

- A.K. Korja (A) (SSEPs) Science Steering Evaluation Panel (Earth's Interior)
- A.K. Korja (D) (SSP) Site Survey Panel

Finnish PhD projects based on ODP related material

- Aarno Kotilainen, "Late Pliocene and Quaternary sedimentation in the North Pacific Ocean" – Leg 145 related project – PhD at the University of Cambridge.
- Marko Matinlassi, "Sediments and heavy mineral distribution within a subduction complex near the Chile margin Triple Junction" – Leg 141-related project - MSc at University of Oulu.
- Titta-Miia Kaivola, "Provenance variabilities in the Cote d'lvoire -Ghana Transform Margin transform as indicated by clay sedimentation" – Leg 159 related project – MSc at University of Oulu.
- Mattiina Ruikka "Polar glacial and climate history - clay minerals as indicators of past climate" – Leg 151 and Leg 188 related project assigned to PhD – University of Oulu.
- Juho Junttila "Clay minerals of Prydz Bay Rise in response to Plio-Pleistocene East-Antarctic glacial history and climate" – Leg 188 related project assigned to PhD – University of Oulu.

Finnish participation and hosting of ODP related workshops and meetings

- May 6-8, 1992, 4th ECOD (ESF consortium for the Ocean Drilling Program) Workshop Drilling towards the 21st Century: ODP in the Atlantic, Rungsted, Denmark. Meeting for further planning.
- May 6, 1992. 14th ESCO (The European Science Foundation Science Committee for the ODP) Meeting, Rungsted Gård, Denmark, Finnish delegate participation.
- March 14-16, 1993, Ocean Drilling Program, Leg 141 Post-Cruise Conference, 14.-16.3.1993, La Paz, Mexico
- May 10, 1993, Ocean Drilling Program (ODP) -symposium (Nordic), Helsinki, Finland. Talk about tectonism and depositional systems in an active subduction zone related to ODP Leg 141.
- September 17, 1994, 19th ESCO Meeting, Davos, Switzerland, Finnish delegate participation.
- September 18-20, 1994, 5th ECOD Workshop Drilling marginal basins & gateways; Past,Present & Future ODP Drilling, Davos, Switzerland. Talk about ridge subduction tectonics and sedimentation in relation to Leg 141.
- February 28, 1996, 22th ESCO Meeting, Oldenburg, Germany. Participation as a Finnish delegate.
- February 28 - March 1, 1996, 1st EuroColloqium "Ocean Drilling Program/Deep Sea Drilling Project", Oldenburg, Germany. Invited talk about sedimentary processes in response to development of a transform continental margin in relation to ODP Leg 159.
- April 20-26, 1996. Ocean Drilling Program, Leg 159 Post-Cruise Conference, Tsukuba, Japan.
- May 22-25, 1997, 6th ECOD Workshop Land-Ocean Lingages, Sundvolden, Norway. Talk about cyclic sedimentation in a rift-transform margin transition in relation to ODP Leg 159.
- March 13, 1998. 26th ESCO Meeting, Milano, Italy. Finnish delegation.
- September, 19-22, 1998. 2nd European Ocean Drilling Forum, Edinburg, UK, Meeting for further planning.

- September 20, 1998, 27th ESCO Meeting, Edinburg, UK. Finnish delegation.
- March 12, 1999, 28th ESCO Meeting, 12.3.1999, Oulu, Finland. Organiser of the meeting and Finnish delegation.
- September 29-October 2, 1999, 7th ECOD Workshop-ECOD Highlights and Drilling Beyond 2003, Amsterdam, the Netherlands. Presentation about clay mineral of Site 911 as indicators of the Pleistocene climate in the Northern Atlantic.
- October 3, 1999, 29th ESCO Meeting, Amsterdam, the Netherlands. Finnish delegation.
- April 9, 2000. 30th ESCO Meeting, La Grande Motte, France, Finnish delegation.
- April 10-11, 2000. 3rd European Ocean Drilling Forum, 10-11.4.2000, La Grande Motte, France. Meeting for further planning.
- August 29-30, 2000, IODP Evaluation meeting, Stockholm, Sweden.
- September 27-28, 2000, 31st ESCO Meeting, Stockholm, Sweden. Finnish delegation.
- April 6-7, 2001, 32nd ESCO Meeting, Finnish delegate, Venice, Italy. Finnish delegation.
- April 7, 2001, 17th EMCO Meeting, Venice, Italy. Finnish delegation.
- September 8-14, 2001, Leg 188 Postcruise and International ANTOSTRAT symposium "The geological record of the Antactic Ice sheet from drilling, coring and seismic studies" Erice, Italy.
- September 28-29, 2001, 33rd ESCO Meeting, Zürich, Switzerland. Finnish delegation.
- April 8-9, 2002, 34th ESCO Meeting, Tromsø, Norway. Finnish delegation.
- April, 10-12, 2002, 4th ODP Euro-Forum, International Conference, Tromsø, Norway. Presentation about microtextures of quartz sand grains in verifying onset of glaciation - example from Prydz Bay, ODP Site 1166, Antarctica.
- September 20-21, 2002, 35th ESCO Meeting, Salamanca, Spain. Finnish delegation.
- April 26, 2003, 36th ESCO Meeting, 26. 4. 2003, Dublin, Ireland. Finnish delegation.

Finnish participation and hosting of JEODI related workshops and meetings

- January 8-9, 2001, Workshop, Alternate Drilling Platforms: European as the Third Leg of IODP, Bryssel, Belgium, participation.
- January 13-14, 2003, JEODI Workshop "Arctic Preparing for Scientific Ocean Drilling in the Arctic: The Site Survey Challenge", Copenhagen, Denmark, participation.

Finnish participation and hosting of ECORD related workshops and meetings

- January 20-21, 2003, 7th ECORD Interim Council Meeting, Villefrance sur Mer, France, Finnish alternate
- April 24, 2003, 9th ECORD Interim Council Meeting, Dublin, Ireland, Finnish alternate

Iceland

ODP Highlights from an Icelandic perspective

In the beginning of the ODP there was considerable interest in the program within the community of Icelandic scientists. The Icelandic participation went off well, with sailing an scientist and student trainee. An Icelandic proposal was also submitted in 1994 but did not go through. After that the Icelandic participation was in a low period and interest seemed to fail.

In the last years there has been a increasing interest in the Icelandic shelf, especially within the palaeoenvironmental reconstruction, sedimentation and erosion processes, seafloor topography, tectonics and hydrocarbon generation. Many projects, both short- and long term have been carried out and are still going. Dropcores have been collected and seismic work has been carried out over the last few years, resulting in high-resolution maps and a better understanding of the tectonic movements and environmental changes within the Quarternary and late Tertiery, especially within the northern regions of Iceland. This work is ongoing and has got a much deserved attention. Also have been obtained, the last 2-3 years, high-resolution cores covering the Holocene and the transition into the last glaciation.

In this time period there has been little activity in the field of ODP itself. However in the light of some of the new data collected, the interest is increasing and therefore has set in, both with application for sailing scientists and student trainees, as well as constructing a proposal for drilling on the Icelandic shelf as well as offshore Iceland.

The wheels of proposal making have started to turn. Scientists have been contacted and they are willing to contribute. The idea was to try to get a proposal in for the intermediate time between ODP and IODP. This has been postponed now until the new program starts.

The role of the ODP and the transition to IODP, as well as has been presented to many students and scientists in the hope of them being more active. We believe that in the near future the activities with in this field will rise in Iceland, especially with the Mission Specific Platform.

Icelandic Shipboard Scientists Legs 101 - 210

145	Gunnar Olafsson	Paleontologist (nannofossils)

Icelandic participation in the ODP Planning Structure (1986 - 2003)

1986 - 1988

- B. Steingrimsson, (A) (DME) Downhole Measurements Panel

1989 - 1992

- M. Magnusson (ODPC) ODP Council
- L. Kristjansson, (SRDPG) Sedimented Ridges Detailed Planning Group (1989)

1993 - 1996

- S. Thorhallsson (D) (TEDCOM) Technology and Engineering Development Committee
- G. Palmason (D) EMCO
- A. Björnsson (ODPC) ODP Council
- G. Olafsson (D) ESCO
- G.O. Fridleifsson (D) ESCO 1994 - 1995
- A.E. Sveinbjörnsdottir (D) ESCO 1995 - 1996

1997 - 2000

- A.E. Sveinsbjornsdottir (D) ESCO
- S. Johnsen (A) ESCO 1997-1999
- B. Richter (A) ESCO 1999-2000
- G. Palmason (D) EMCO, (ODPC) ODP Council
- S. Thorhallson (A) (TEDCOM) Technology & Engineering Development Committee

2001 - 2003

- B. Richter (D) ESCO
- G.O. Fridleifsson (D) EMCO, (ODPC) ODP Council

Icelandic past and present ODP Proposals

- 1994 – Tjörnes Fracture Zone Sedimentary Basin. Late Cainozoic Paleoceanography and Sedimentary History at the Arctic Boundary. Guðmundur Ó. Friðleifsson, Jón Eiríksson, Hafliði Hafliðason, Karl Gunnarsson, Gunnar Ólafsson, Kjartan Thors, Birger Larsen, Sverrir Þórhallsson and Árný E. Sveinbjörnsdóttir.

Icelandic Mission Specific Platform proposals presently under consideration

- The Tjörnes Basin, North Iceland, will probably be submitted in autumn 2004.

Icelandic PhD projects based on ODP related material

- Olafsson, G., 1991. Late Oligocene through Late Miocene calcareous nannofossil biostratigraphy and biochronology. PhD thesis. Meddelanden fran Stockholms Universitets Institution for Geologi og Geokemi no 283,23pp with appendices

Icelandic participation and hosting of ODP related workshops

- ODP-forum, Tromsø, Norway, April 2002 **Bjarni Richter, Jørgen Bojesen-Koefoed** and **Guðmundur Ómar Friðleifsson**. The tjörnes basin, a large sedimentary basin within a volcanic province, north iceland
- ODP-forum, Tromsø, Norway, April 2002 **Gudmundur Fridleifsson** Iceland Deep Drilling Project (IDDP) – Drilling Into Supercritical Conditions On The Landward Extension Of The Reykjanes Ridge

Ireland

ODP Highlights from an Irish perspective

Ireland, in association with the Marine Institute and Enterprise Ireland, joined ECOD in 2000. EMCO and ESCO delegates and alternates from Ireland have attended ECOD and other ODP-related meetings since then.

With no prior involvement of Ireland in ODP, earth scientists and others were informed of Ireland's ECOD membership and encouraged to think in terms of ODP involvement. A large circulation list was prepared and information circulars were devised and sent out from time to time. Talks were given about the ODP and ECOD at several marine science meetings in Ireland; posters were displayed and leaflets were made available.

Two formal drilling proposals have been submitted. One, APL-18 from the National University of Ireland, Dublin, was rejected chiefly because it would have been too short in duration to justify. The other has been resubmitted to the iSAS Office for IODP, where it remains on the active list as proposal 596-Pre2.

Dr. Julian Marchesi (National University of Ireland, Cork) applied to sail as shipboard scientist (microbiologist) on Leg 201 (Peruvian deep biosphere) during early 2002. Though receiving the 2S nomination by ECOD and being very well experienced, he was unfortunately not successful in the final selection. He is currently working on samples from that cruise.

'Rising Star', Thérèse Shryane, has been finally selected and invited to sail as shipboard scientist (structural geologist) on Leg 210 (Newfoundland Margin) during the late summer of 2003. She will depart for Bermuda to join *JOIDES Resolution* in early July. Her work after the cruise will mainly focus on fluid inclusions in quartz veins. Thérèse has already sailed on three marine science cruises in Irish waters and has had a carbonate mound named after her. She will be Ireland's first ODP shipboard scientist and, as such, her new experience will be particularly valuable. She has agreed to give lectures about her participation in Leg 210 to help spread awareness of ODP & IODP.

At present Thérèse works in the Marine Section of the Geological Survey of Ireland (GSI) with full time involvement in the Irish Seabed Survey. Her work entails data quality control and interpretation of acoustic multibeam data and shallow seismic sub-bottom profiling. Details of this major 32 million euros, 7-year project are available on the GSI seabed website www.gsiseabed.ie and select Seminars (on left). Thérèse is also currently completing her PhD in the National University of Ireland, Galway.
Photo: Thérèse Shryane, Dublin, by Sophie Préteseille

Irish Shipboard Scientists Legs 101 - 210

210	Thérèse Shryane	Structural Geologist (Sailed in July 2003)

Irish post-cruise scientists

201 Julian Marchesi

Irish requests for samples from the ODP curation database

17820A 201 Marchesi

Past and present Irish ODP Proposals

- 596-Pre2 Morrissey Testing the hypothesis for an Early Cretaceous hotspot in the southern Rockall-Hatton region (North Atlantic).
- APL-18 Scanlon Testing the Location of the Grenville Front in the North Atlantic Region.

Irish participation in the ODP Planning Structure

- Peadar McArdle (D), EMCO August 2000 to present.
- Deepak Inamdar (A), EMCO August 2000 to present.
- Barry Long (D), ESCO August 2000 to present.
- Helen Gwinnutt (A), ESCO August 2000 to December 2001.
- Eibhlín Doyle (A), ESCO January 2002 to present.

Irish participation and hosting of ODP – related workshops and meetings

- October 3, 1999. 29th ESCO Meeting, Amsterdam, Netherlands. Peadar McArdle (Observer).
- April 9, 2000. 30th ESCO Meeting, Montpelier, France. Peadar McArdle.
- October 27-28, 2000. 31st Joint EMCO-ESCO Meeting, Stockholm, Sweden. Peadar McArdle.
- April 6-7, 2001. 32nd Joint EMCO-ESCO Meeting, Venice, Italy. Deepak Inamdar & Barry Long.
- September 28-29, 2001. 33rd Joint EMCO-ESCO Meeting, Zürich, Switzerland. Peadar McArdle & Barry Long.
- April 8-9, 2002. 34th Joint EMCO-ESCO Meeting, Tromsø, Norway. Deepak Inamdar & Barry Long.
- September 20-21, 2002. 35th Joint EMCO-ESCO Meeting, Salamanca, Spain. Deepak Inamdar & Eibhlín Doyle.
- April 25-26, 2003. 36th Joint EMCO-ESCO Meeting, Dublin, Ireland. Peadar McArdle, Deepak Inamdar, Barry Long & Eibhlín Doyle.
- November 17, 2000. Annual National Seabed Seminar at Geological Survey of Ireland. Barry Long (ESCO Del.) spoke about ODP.
- November 16, 2001. Annual National Seabed Seminar 2001 at Geological Survey of Ireland. Barry Long (ESCO Del.) spoke about ODP and IODP.
- April 10-12th 2002. 4th European ODP Forum, Tromsø, Norway. Barry Long & Deepak Inamdar.
- November 7, 2002. Annual National Seabed Seminar at Dublin Castle, as part of Marine Institute 10th Anniversary Meeting. David Falvey (Director BGS, and former Director ODP) accepted invitation from Geological Survey of Ireland to speak about ODP and IODP. Exhibition of ODP/IODP and JEODI posters.

Irish participation and hosting of JEODI – related workshops and meetings

- January 8-9, 2001. Workshop on Alternate Drilling Platforms (Europe as the third leg of IODP), Brussels, Belgium. Barry Long.
- January 7, 2002. 2nd JEODI Meeting, Barcelona, Spain. Deepak Inamdar.

Participation and hosting of ECORD – related workshops and meetings

- January 6, 2002. ECORD meeting, Barcelona, Spain. Deepak Inamdar.
- April 18, 2002. ECORD meeting, London, U.K. Peadar McArdle.
- September 19, 2002. ECORD meeting, Salamanca, Spain. Deepak Inamdar.
- November 20-21, 2002. ECORD meeting, Copenhagen, Denmark. Deepak Inamdar.
- January 20-21, 2003. ECORD meeting, Nice, France. Peadar McArdle.
- April 24-25, 2003. ECORD interim Council (EiC) Dublin, Ireland. Peadar McArdle & Deepak Inamdar.

Italy

ODP Highlights from an Italian perspective

The Italian Scientific Community was very active in the Ocean Drilling Program (ODP) since 1986 when Italy joined officially the ODP as a member of the European Consortium. More than seventy scientists, senior and younger, as well as a number of PhD and undergraduate students have been, and are still, involved in the program.

The Italian participation is spreading into different levels of activity; from (a) the participation as shipboard scientists to fortyseven cruises to (b) the scientific contributions with shipboard and/or shorebased investigations in different disciplinary areas (biostratigraphy of various fossil groups, sedimentology, structural geology, geochemistry, petrology, geophysics), (c) to the creation of drilling proposals, and (d) to the active participation to the scientific advisory groups that run the program.

During the seventeen years participation in ODP, Italian scientists contributed significantly to the substantial improvement of the biostratigraphic resolution from the Lower Cretaceous to Holocene. Quantitative analyses on calcareous plankton, coccolitophorids and foraminifera, systematically conducted in high resolution, revealed a number of secondary bioevents that allowed the construction of a more reliable, highly defined bio-chronostratigraphic scheme resulting, once correlated to magneto- and isotope stratigrafies, in a significant improvement of the global time scale. Quantitative plankton studies, integrated to the other parameters, revealed that planktonic biota in the deep sea sediments recorded high frequency climatic oscillations controlled by changes in the orbital parameters (precession, obliquity, eccentricity) as far back as the Miocene, then well before the onset of the Ice Ages proper, contributing in the birth of a new discipline, the astrocyclostratigraphy.

Quantitative data, integrated to magneto- and isotope stratigraphies, also opened a new perspective in palaeoceanographic reconstructions through the identification of paleoenvironmental biotic indices since the Early Cretaceous. The same quantitative approach was also used for investigating causes and effects on biota of the transient climate changes of the Cretaceous Oceanic Anoxic Events, the Paleocene-Eocene Thermal Maximum and the Early Eocene Climatic Optimum. The climatic changes possibly induced by “mantle plumes” were suggested for Cretaceous OAEs.

Paleoenvironmental significance of calcareous plankton taxa, especially nannofossils, was also applied to movements of plate reconstruction, especially of the Pacific Plate during the Cretaceous, through the identification of the timing of equatorial crossing.

Another Italian contribution concerns the life history of the Pacific guyots, the volcanic pedestal of which, created in the southern tropics, was dated to the Early Cretaceous for the guyots lying now at more northern latitudes (MIT and Takuyo-Daisan) and to Paleocene for the southernmost Limalok guyot located at 7° north of the modern equator. Shallow-water organisms demonstrated that ocean paleocirculation changed from Early Cretaceous to Paleogene as proved by the cosmopolitan character of the shallow marine biota in the Aptian-Albian, a remarkable affinity with the Caribbean bioprovince in Campanian-Maastrichtian time and a more western Tethyan affinity in the early Paleogene. Platform communities terminated either in the Albian, late Maastrichtian, or middle Eocene. The demise of the platforms was a possible

consequence of the northward motion of the Pacific plate that carried them into the equatorial upwelling zone where carbonate production was possibly inhibited.

Some Italian scientists also contributed, sometimes significantly, to the study of the (1) architectural evolution of continental margins, being controlled by several factors including catastrophic sedimentation processes, (2) convergent margins, many of them characterized by vertical subsidence in the km range and anomalously small accretionary prisms suggesting subduction erosion; and (3) the history of the Antarctic Ice Sheet, marked by ice sheet development dated back to 35 Ma, with pulses at 30 Ma, 24 Ma, and 13-15 Ma before the definitive, even fluctuating, development in the last 10 millions of years.

Italian participants in ODP have contributed to the knowledge of the igneous petrogenesis of the basalts, as well as architecture and structural evolution of the oceanic crust. All Italian petrologists had previous experience on ophiolites that have provided a strong background and stimulated advanced, detailed investigations on the oceanic basement.

Most studies have been conducted on the Pacific ocean basement, in particular on: (1) the Tertiary oceanic crust drilled in the western Pacific marginal basins of Sulu and Celebes, which developed since the Eocene (43 Ma ago) during the collision between the Australia and Philippine plates; (2) the young oceanic crust (6.9 Ma) recovered close to spreading centers of the Costa Rica Rift, characterized by intermediate spreading rate (about 70 mm/a total). Hole 504B, first drilled by DSDP, is the only complete section of in situ upper crust and the only hole to penetrate the extrusive lavas and the sheeted dike complex; (3) the young oceanic crust (~12-17 Ma), recently drilled close to East Pacific Rise (EPR), created during an episode of superfast rate spreading (200-220 mm/a); (4) the young oceanic crust (0.8-3.5 Ma) drilled on the eastern flank of the Juan de Fuca Ridge in the northeastern Pacific; (5) the oceanic crust of Eocene age (45 Ma), recently drilled in the north Pacific, characterized by ultrafast spreading rate (142 mm/a total), similar to the present-day EPR.

Main results are the recognition of the oceanic nature, MORB-type nature of the Eocene Celebes crust, the MORB-type with arc signature nature of the Miocene Sulu crust, the Indian ocean-type isotopic characteristics of the igneous rocks of the Sulu and Celebes arc-backarc systems, a distinctive feature of the western Pacific region magmatism since the Eocene to present-day. Drilling of Hole 504B has represented a major goal of ODP; the experience and results acquired on hydrothermal processes, structural evolution and physical properties have provided an advanced model of the young ocean crust that relates meso-and microstructures, secondary minerals, physical characteristics and parameters obtained by logging. This model is applied successfully in ongoing studies on Site 1256 basaltic crust (close to EPR). Concerning the hydrothermal alteration of the oceanic crust, pioneer studies on traces of organic processes have been conducted on the basement of the Juan de Fuca Ridge (Leg 168).

For the Atlantic Ocean, the reference of drilled oceanic crust to well-known Italian ophiolites from the Apennines has been particularly fruitful for the dissected oceanic crust close to the mid-Atlantic Ridge in the Kane Fracture Zone. The subsolidus, high- to low-temperature, alteration of gabbros and dikes has been reconstructed with great detail, so providing an advancement in the knowledge of the ocean crust created at slow-spreading rate, and the interpretation of uncommon ophiolites, generated along transform zones, like those of the Apennines.

The Italian scientific contribution is demonstrated by the more than 450 papers (published or in press) and by a large number of abstracts presented to major international meetings or conferences.

Finally, several Italian scientists have been deeply involved in drilling proposals concerning the Mediterranean and Antarctic margins, the scientific objectives of which were incorporated in Legs 160 and 161 and Legs 178 and 188, respectively, or will be considered in future IODP Legs.

Dr. Paola Vannucchi, Università di Firenze, Italy: "The first time I visited the *JOIDES Resolution* was in 1995 during Leg 161's portcall in Napoli: I had just graduated and ODP was my dream. My scientific interest was (and still is) on convergent margins and I decided to apply to sail on Leg 170 dedicated to the Costa Rica subduction complex and after few months I was invited to sail on that leg. So while I was doing my PhD I sailed as a structural geologist and I had the opportunity to work with the topmost scientists on a subject, the Central America subduction zone, which completely captured me. ODP and Leg 170 helped me to grow in my way to approach scientific problems, but also gave me new tools to look at ancient subduction complexes. My shipmates are still some of my best friends and some of my favourite colleagues. Thanks to Leg 170 I got the opportunity to move to the UK to do my postdoc with Prof. A. Maltman, who introduced me also to other modern subduction complexes, such as Nankai and Barbados. My experience was so positive that I recently sailed again on Leg 205 going back to Costa Rica (see photo) to perform CORK experiments and put my hands again on an active plate boundary. And the future? Well, I hope my future in Central America will be CRISP (Costa RIca Seismogenesis Project) a project recently submitted to IODP to drill through the seismogenic plate boundary".

Interrelated research programs

- ANTOSTRAT
- C/T Net - Cenomanian/Turonian Network
- EEDEN, The Middle Miocene Crisis
- MEDRIFF-MAST II

Miriam Kastner, Peter Clift and Paola Vannucchi having a relaxing dinner at Costarican sunset during Leg 205.

- PALEOFLUX-MAST II
- SAP- MAST III
- TREDMAR 3

Italian ECOD Shipboard Scientists Legs 101 - 210

102	Domenico Rio	Paleontologist (nannofossils)
103	Massimo Sarti	Sedimentologist
107	Pietro Curzi	Physical Properties Specialist
107	Renzo Sartori	Sedimentologist
107	Rodolfo Sprovieri	Paleontologist (foraminifers)
114	Marisa Nocchi	Paleontologist (planktonic foraminifers)
115	Domenico Rio	Paleontologist (nannofossils)
116	Silvia M. Iaccarino	Paleontologist (foraminifers)
116	Franca Proto-Decima	Paleontologist (foraminifers)
122	Massimo Sarti	Sedimentologist
124	Piera Spadea	Igneous Petrologist
125	Giuliano Ciampo	Paleontologist (nannofossils)
126	Albina Colella	Sedimentologist
127	Luigi Vigliotti	Paleomagnetist
129	Elisabetta Erba	Paleontologist (nannofossils)
131	Franca Siena	Igneous Petrologist
132	Isabella Premoli Silva	Paleontologist
134	Massimo Coltorti	Igneous Petrologist
138	Isabella Raffi	Paleontologist (nannofossils)
139	Maria Boni	Sedimentologist
140	Paola Tartarotti	Metamorphic Petrologist

144	Isabella Premoli Silva	Co-Chief Scientist
144	Elisabetta Erba	Paleontologist (nannofossils)
146	Angelo Camerlenghi	Sedimentologist
148	Paola Tartarotti	Petrologist
152	Silvia Spezzaferri	Paleontologist (planktonic foraminifers)
154	Isabella Raffi	Paleontologist (nannofossils)
157	Rosanna Maniscalco	Paleontologist (planktonic foraminifers)
160	Enrico Di Stefano	Paleontologist (nannofossils)
160	Silvia Spezzaferri	Paleontologist (planktonic foraminifers)
161	Carlo Doglioni	Structural Geologist
161	Silvia M. Iaccarino	Paleontologist (planktonic foraminifers)
164	Emanuele Lodolo	Physical Properties Specialist/JOIDES Logger
167	Eliana Fornaciari	Paleontologist (nannofossils)
168	Pietro Marescotti	Petrologist
169	Gian G. Zuffa	Sedimentologist
170	Paola Vannucchi	Structural Geologist
172	Domenico Rio	Co-Chief Scientist
172	Isabella Raffi	Paleontologist (nannofossils)
177	Maria Marino	Paleontologist (nannofossils)
178	Angelo Camerlenghi	Co-Chief Scientist
178	Marina Iorio	Stratigraphic Correlator
180	Stefania Gerbaudo	Sedimentologist
181	Agata Di Stefano	Paleontologist (nannofossils)
185	Francesca Lozar	Paleontologist (nannofossils)
188	Michele A. Rebesco	Sedimentologist
195	Massimo D'Antonio	Igneous Petrologist
197	Rosalba Bonaccorsi	Sedimentologist
197	Fabrizio Tremolada	Paleontologist (nannofossils)
198	Isabella Premoli Silva	Co-Chief Scientist
198	Maria Rose Petrizzo	Paleontologist (planktonic foraminifers)
199	Isabella Raffi	Paleontologist (nannofossils)
200	Michele Lustrino	Igneous Petrologist
203	Costanza Bonadiman	Petrologist
205	Paola Vannucchi	Structural geologist
206	Laura Crispini	Petrologist
206	Paola Tartarotti	Structural geologist
208	Simonetta Monechi	Paleontologist (nannofossils)
208	Isabella Raffi	Paleontologist (nannofossils)

Italian Shipboard Scientists who sailed from non-ECOD countries (Legs 101 - 210)

107	Enrico Bonatti (USA)	Petrologist
115	Angelo Camerlenghi (USA)	Marine Technician
172	Maria Serena Poli (USA)	Paleontologist (nannofossils)
188	Fabio Florindo (UK)	Paleomagnetist
199	Luca Lanci (USA)	Paleomagnetist
209	Anna Cipriani (USA)	Petrologist

Italian post-cruise scientists

107	Silvia M Iaccarino	Paleontologist (planktonic foraminifers)
	M. Luisa Colalongo	Paleontologist (ostracodes)
	M. Bianca Cita	Stratigrapher
	A. Iannace	Stratigrapher
112	A. Camerlenghi	Physical Properties
114	Isabella Premoli Silva	Paleontologist (planktonic foraminifers)
	Marina Madile	Paleontologist (nannofossils)
	Simonetta Monechi	Paleontologist (nannofossils)
115	Isabella Premoli Silva	Paleontologist (planktonic foraminifers)
	Alda Nicora	Paleontologist (foraminifers)
	Silvia Spezzaferri	Paleontologist (planktonic foraminifers)
120	Giuliana Villa	Paleontologist (nannofossils)

130	Isabella Premoli Silva	Paleontologist (planktonic foraminifers)
	Eliana Fornaciari	Paleontologist (nannofossils)
	Domenico Rio	Paleontologist (nannofossils)
133	Giuliana Villa	Paleontologist (nannofossils)
134	Franca Siena	Petrologist
144	Alda Nicora	Paleontologist (foraminifers)
149	Giuliana Villa	Paleontologist (nannofossils)
160	Isabella Premoli Silva	Paleontologist (planktonic foraminifers)
	Angelo Camerlenghi	Physical properties
	Davide Castradori	Paleontologist (nannofossils)
	Isabella Raffi	Paleontologist (nannofossils)
169	Franca Serra	Sedimentologist
177	Simone Galeotti	Paleontologist (planktonic foraminifers)
185	Elisabetta Erba	Paleontologist (nannofossils)

Italian participation in the ODP Planning Structure

1986 - 1988

- G.B. Piccardo, (A), (LITHP) Lithosphere Panel
- I. Premoli Silva, (D), (SOHP) Sediments And Ocean History Panel
- M.B. Cita-Sironi, (D), ESCO
- R. Nicolich, (A), (PPSP) Pollution Prevention Safety Panel
- R. Sartori, (A), (SSP) Site Survey Panel
- A. Bosellini, (D), Indian Ocean Regional Panel

1989 - 1992

- M.B. Cita-Sironi, (D), (PCOM) Planning Committee
- E. Cassano, replaced by L. Deluchi, (D), (PPSP) Pollution Prevention Safety Panel
- I. Premoli Silva, (A), (OHP) Ocean History Panel
- R. Sartori, (A), (SSP) Site Survey Panel
- M.B. Cita-Sironi, (D), ESCO
- A. Camerlenghi, (D), (CAPDPG) Cascadia Accretionary Prism Detailed Planning Group (1990)
- S. Nuti, (FPAPWG) Fluid Processes In Accretionary Prism Working Group (1990)
- I. Premoli Silva, (A&GDPG) Atolls And Guyots Detailed Planning Group (1991)
- I. Premoli Silva, (IOP) Indian Ocean Panel

1993 - 1996

- M. Fratta, (D), (ODPC) ODP Council (1993-1995)
- R. Sartori, (D), (ODPC) ODP Council (1995-1996)
- R. Sartori, (D), (EXCOM) Executive Committee (1993-1995)
- M.L. Ruscitto, (D), (EXCOM) Executive Committee (1996)
- M. Sarti, (D), (SMP) Shipboard Measurement Panel
- C. Doglioni, (D), (TECP) Tectonics Panel
- M.B. Cita-Sironi, (D), ESCO (1993-1994)
- I. Premoli Silva, (D), ESCO (1995-1996)
- A. Camerlenghi, (D), (SSP) Site Survey Panel (1992-1995)
- L. Deluchi, (D), (DMP) Downhole Measurement Panel
- E. Erba, (D) (OHP) Ocean History Panel (1996)
- R. Nicolich, (D), (PPSP) Pollution Prevention Safety Panel
- A. Camerlenghi, ANTOSTRAT Detailed Planning Group (1996)

1997 - 2000

- R. Sartori, (D), (ODPC) ODP Council (1997-1998)
- M.L. Ruscitto, (D), (EXCOM) Executive Committee (1996)
- M.L. Ruscitto, (D), (EMCO) ESF Management Committee
- A. Argnani, (A), (SSP) Site Survey Panel
- I. Premoli Silva, (D), ESCO
- E. Erba (D) (SSEPs) Science Steering Evaluation Panel (Earth's Environment) (1997-1998)
- P. Spadea (D) (SSEPs) Science Steering Evaluation Panel (Earth's Interior) (1998-2000)
- A. Vallini, (A), (TEDCOM) Technology & Engineering Development Committee (1997)
- S. Persoglia, (D), (TEDCOM) Technology & Engineering Development Committee (1998-2000)

- P. Favali, Seismogenic Zone Drilling Detailed Planning Group (1998-1999)
- I. Premoli Silva, (D), Extreme Climates Program Planning Group (1998-1999)

2001 - 2003

- I. Premoli Silva, (D), ESCO
- M.L. Ruscitto, (D), (EMCO) ESF Management Committee
- L. Gasperini, (A), (SSP) Site Survey Panel
- S. Persoglia, (D), (TEDCOM) Technology & Engineering Development Committee (2001)
- L. Sagnotti, (D), (SciMP) Scientific Measurement Panel
- P. Spadea, (D), (SSEPs) Science Steering Evaluation Panel (Earth's Interior) (2001)

IODP 2002-2003

- M.L. Ruscitto, (D), (ECORD) European Consortium for Ocean Research Drilling interim Council
- M. Sacchi, (D), (IWG) International Working Group

External Editor of ODP Scientific Results volume

- Camerlenghi, A., 1998, Proceedings of the Ocean Drilling Program, Scientific Results: in Robertson, A.H.F., Emeis, K.-C., Richter, C. and Camerlenghi, A. (eds), v. 160: College Station, TX (Ocean Drilling Program).

Microfossil Reference Collections (MRC)

- *Nannofossil Reference Collection*, April 1998 to present, Department of Earth Sciences, University of Parma. Curator: G. Villa

Past and present Italian ODP Proposals

- Barker, P.F., Larter, R.D., Pudsey, C.J., **Rebesco, M., Camerlenghi, A.**, Gamboa, L., Hayes, D.E., and McGlinnis, J.P., 1998, ODP Drilling Proposal N. 452-Rev - Antarctic Glacial history and sea-level change: Antarctic Peninsula Pacific Margin.
- Barker, P.F., Larter, R.D., **Rebesco, M., Camerlenghi, A.**, and Gamboa, L., 1993, ODP Drilling Proposal N. 452 - Antarctic Peninsula Pacific Margin: Antarctic Glacial History and Causes of Sea Level Changes. Accepted and included in the drilling program of ODP Leg 178 (Antarctic Peninsula).
- Barrett, P., Davey, F.J., **Brancolini, G.**, Anderson, J., Alonso, B., **De Santis. L.**, Bartek, L.R., Wise, S., Bart, P., 1995, ODP Drilling Proposal N. 489 - Ross Sea Continental Shelf: Antarctic Glacial History and Sea-Level Change.
- **Bonatti, E.**, 1992, ODP Drilling Proposal N. 086-Rev2 - A proposal for ODP drilling in the Red Sea.
- **Bonatti, E.**, Kastens, K., and Auzende, J.M., 1993, ODP Drilling Proposal N. 376-Rev3 - A revised proposal for drilling at the Vema F.Z. in the Atlantic: (1) upper mantle; (2) gabbro/dyke complex; (3) limestone cap on transverse ridge.
- **Bonatti, E., Ligi, M., Gasperini, L.**, and **Sartori, R.**, 1995, ODP Drilling Proposal N. 468 - Vertical tectonics and origin of transform ridges: Drilling of carbonate platforms at the Romanche Fracture Zone (Equatorial Atlantic).
- **Camerlenghi, A.**, Principal Proponent, 1993-1995, ODP Drilling Proposal N. 330-Rev. - Time progressive Continental Collision: The Mediterranean Ridge Accretionary Complex in the Eastern Mediterranean (Phase-1 Shallow Drilling). Accepted and included in the drilling program of ODP Leg 160 (1995).
- **Casero, P., Cita, M.B., Croce, M., Frisia, S.**, Hieke, W., and **Nicolich, R.**, 1989, ODP Drilling Proposal N. 324 - Malta Escarpment, Alfeo Seamount and Victor Hensen Seamount: a key to plate tectonic evolution of the western and Eastern Mediterranean since the Mesozoic.
- **Cita-Sironi, M.B.**, ODP Drilling proposal N. 012 - A Transect Across the Tyrrhenian Back-Arc Basin.
- **Cita-Sironi, M.B.**, 1990, ODP Drilling proposal N. 330-Add2 - Mediterranean Ridge: An Accretionary Prism in a Collisional Context.
- **Cita, M.B.**, **Argnani, A.**, Bojle, E.A., Calvert, S.E., **Camerlenghi, A.**, Canals, M., Cramp, A., De Lange, G., Emeis, K.C., Prahl, F.G., **Sartori, R.**, Thunnell, R.C., Woodside, J., and Zahn, R., 1991, ODP Drilling Proposal N. 391 - The formation of Sapropels in the Mediterranean Sea. Accepted and included in the drilling program of ODP Leg 160 (1995).
- **Cita, M.B., Camerlenghi, A., Mirabile, L., Pellis, G., Della Vedova, B.**, Hieke, W., **Nuti, S.**, and **Croce, M.**, 1989, ODP Drilling Proposal N.

330 - Mediterranean Ridge: an accretionary prism in a collisional context.

- **Cita, M.B., Negri, A.**, Langereis, C.G., and Mullender, T.A.T., 1992, ODP Drilling Proposal N. 418 - Biomagnetostratigraphic reference section representing a marine Miocene mid latitude environment: re-occupation of DSDP 372 (Minorca Rise, Western Mediterranean).
- Coffin, M.F., **Bosellini, A.**, Channell, J.E.T., Hay, W.W., Jenkyns, H., Ogg, J.G., and Blomm, P., 1993, ODP Drilling Proposal N. 079-Rev2 - The Mesozoic Somali Basin: Tethys and birth of the Indian Ocean.
- Davey, F.J., **Brancolini, G., De Santis, L.**, Barrett, P., Anderson, J.B., Alonso, B., and Bartek, L.R., 1995, ODP Drilling Proposal N. 489 - Ross Sea continental shelf: Antarctic glacial hystory and sea level change.
- **Erba, E., Premoli Silva, I.**, Norris, R., Wilson, P., Erbacher, J., Larson, R., Bralower, T., Huber, B., Jenkyns, H., Sinninghe Damstè, J., Kroon, D., Leckie, M., Kuhnt, W., 2000, ODP Drilling APL -13 - A proposal to re-drill the Cretaceous section at Site 310 (Hess Rise),
- Escutia, C., Cooper, A.K., Eittreim, S., Tanahashi,M., Ishiara, T., and **De Santis, L.**, 1997, ODP Drilling Program proposal N. 482 - Cenozoic Glacial History and Sea Level Change of the Wilkes Land Margin, Antarctica. Approved, drilling forwarded to IODP.
- **Sartori, R., Torelli, L., Zitellini, N., Lodolo, E.**, and **Peis, D.**, 1992, ODP Drilling Proposal N. 419-Rev - Convergence of oceanic lithosphere and the eastern end of the Azores-Gibraltar plate boundary.
- **Sartori, R., Torelli, L., Zitellini, N.**, Tricart, P., **Brancolini, G., Catalano, R., D'Argenio, B.**, and Compagnoni, R., 1990, ODP Drilling Proposal N. 364 - Trust Units of continental basement in a collisional setting: The Sardinian-African Strait in central Mediterranean.
- **Savelli, C., Boni, M.**, Puchelt, H., **Beccaluva, L., Minniti, M.**, and Eckardt, D., 1992, ODP Drilling Proposal N. 428 - The Quaternary igneous seafloor and hydrothermal sulfide deposits in the south Tyrrhenian (Marsili deep and Palinuro volcano). Accepted and included in the drilling program of ODP Leg 107 (1986).
- **Tinivella, U., Camerlenghi, A.**, and **Rebesco, M.**, 1996, ODP Proposal N. 452-Rev. (Antarctic Peninsula). Velocity Analysis at Site APSHEL-8A and APSHEL-10A. Report to the Site Survey Panel.
- **Tinivella, U., Camerlenghi, A.**, and **Rebesco, M.**, 1996, ODP P Proposal N. 452-Rev. (Antarctic Peninsula). Velocity Analysis at Site APSHEL-1A, APSHEL-2A and APSHEL-4A. Report to the Site Survey Panel.
- **Zitellini, N.**, 1998, ODP Drilling proposal N. 558-Pre2 - Detailed Studies of a Tsunamigenic Structure Offshore SW Iberia: The Chance Offered by the Tectonic Source of the 1755 Lisbon Earthquake.

Italian iSAS - IODP Proposals presently under consideration

- **Erba, E.**, Larson, R.L., and Duncan, R.A., 2003, iSAS/IODP Drilling Proposal N. 630 - Cretaceous palaeoceanographic and igneous events recorded at Magellan and Manihiki Plateaus in the western Pacific Ocean.
- **Vannucchi, P.**, in von Huene, R., et al., 2003, iSAS/IODP Full Drilling Proposal N. 537CDP-Full2 - Costa Rica Seismogenesis Project: CRISP; Revised version submitted 1 April 2003.
- **Vannucchi, P.**, Clift, P., and the CRISP Group, 2003, iSAS/IODP Full Drilling Proposal N. 537A-Full2 - Costa Rica Seismogenesis Project: CRISP Stage 1; Revised version submitted 1 April 2003.

Italian PhD projects based on ODP related material

- Capotondi, Lucilla, "Eventi faunistici ed isotopici del lardo Neogene registrati nel Mediterraneo. Implicaztoni stratigrafiche e paleoceanografiche (Late Neogene faunal and isotopic events registered in the Mediterranean; Stratigraphic and palaeoceanographic Implications)", Earth Sciences, University of Parma, 1991.
- Foresi, Luca M., "Biostratigrafia a foraminiferi planctonici del Miocene medio del Mediterraneo e delle basse latitudini con considerazioni cronostratigrafiche (Middle Miocene planktonic foraminiferal biostratigraphy of the Mediterannean and low latitudes and chronostratigraphic considerations)", Earth Sciences, University of Parma, 1993.

- Lirer, Fabrizio, “Integrated stratigraphy (cyclostratigraphy and biochronology) of Middle Miocene deposits in the Mediterranean area and comparison with Atlantic Ocean”, Earth Sciences, University of Parma, 2003.
- Maiorano, Patrizia, “Biostratigrafia a nannofossili calcarei delle successioni torbiditiche mioceniche nell’Appennnino meridionale e di successioni pelagiche (DSDP e ODP) mediterranee ed extra-mediterranee (Calcareous nannofossil biostratigraphy of southern Apennines Miocene turbidites and Mediterranean and extra-Mediterranean pelagic successions (DSDP and ODP)”, Earth Sciences, University of Bari, 1997.
- Romagnoli, Claudia, “Volcaniclastic materials trom ODP Site 650”, Earth Sciences, University of Bologna, 1991.
- Petrizzo, Maria Rose, “Biostratigrafia e significato paleoclimatico-paleoceanografico dei foraminiferi planctonici dal Turoniano medio al Campaniano inferiore alle medio-alte latitudini meridionali (Biostratigraphy and paleoclimatic-palaeoceanographic significance of planktonic foraminifera from middle Turonian to early Campanian at southern mid-high latitudes)”, Earth Sciences, University of Milan, 1999.
- Pozzi, Marco, “Studio paleoclimatico e paleoceanografico dell’ultimo deglaciale nel Mediterraneo occidentale: dati dei nannofossili calcarei (Paleoclimatic and palaeoceanographic study of the western Mediterranean last “deglacial”: calcareous nannofossil data)”, Paleontology, University of Modena, 1999.
- Serra, Franca, “I depositi torbiditici tardo Pleistocenici dell’Escanaba Trough (Oceano Pacifico Nord Orientale), sedimentazione in una valle di dorsale oceanica a forte attività idrotermale (Late Pleistocene turbiditic deposits of the Escanaba Trough (Northeastern Pacific Ocean), sedimentation in an oceanic ridge valley with strong hydrothermal activity)”, Sedimentology, University of Bologna, 2000.
- Spezzaferri, Silvia, “Il limite Oligocene/Miocene nel “record oceanico” (Atlantico. Indiano, Sud Pacifico): biostratigrafia e paleoclimatologia (The Oligocene/Miocene boundary in the “oceanic record” (Atlantic, Indian, South Pacific): biostratigraphy and paleoclimatology)”, Earth Sciences, University of Milan, 1992.
- Testa, Massimiliano, “Microfaune a radiolari e a spicole di spugna nelle successioni sedimentarie quaternarie del Woodlark Basin occidentale (Papua Nuova Guinea) (Radiolarian and sponge spicule microfaunas of the Quaternary sedimentary successions from western Woodlark Basin (Papua-New Guinea)”, Earth Sciences, University of Genova, 2000.
- Vannucchi, Paola, “Deformazione di sedimenti non litificati in zone di convergenza: esempi dall’Appennino Settentrionale e dalla Costa Rica (Deformation of non-lithified sediments in convergent zones: examples from Northern Apennines and Costa Rica)”, Earth Sciences, Universties of Bologna-Modena, 1997.
- Tremolada, Fabrizio, “Extreme Climates in the past: Phytoplankton Response to early Aptian and Paleocene/Eocene boundary greenhouse conditions”, Earth Sciences, University of Milan, November 2003.
- Verga, Davide, “La prima radiazione dei foraminiferi planctonici nel Cretacico inferiore: implicazioni tassonomiche e paleoceanografiche (Early Cretaceous planktonic foraminiferal evolution: taxonomic and palaeoceanographic implications)”, Earth Sciences, University of Milan, November 2003.

Italian hosting of ODP related workshops and meetings

- March 1989, ESCO Meeting, Milan, Italy.
- March 12-13 1998, 26th ESCO Meeting, Milan, Italy.
- April 6-7, 2001. 32nd ESCO Meeting, Venice, Italy.
- April 6-7, 2001. EMCO Meeting, Venice, Italy.
- November 1989. Ocean History Panel (OHP) Meeting, Milan, Italy.
- May 14-16, 1990. 3rd ECOD Workshop, Terrasini, Palermo, Italy. Geology of the Oceans.
- September 26-October 1, 1993. 2nd Post-Cruise Meeting Leg 144, Terrasini Sicily, Italy.
- October 29-November 2, 1999. 2nd Post-Cruise Meeting Leg 172, Padua, Italy.
- November 1-3, 1999: ESSEP & ISSEP Joint Meeting, Udine, Italy.
- June 2001. 2nd Post-Cruise Meeting Leg 185, Turin, Italy.
- January 12-15, 2003. Site Survey Panel (SSP) Meeting, Bologna.

- October 9-11, 2003. 2nd Post-Cruise Meeting Leg 199, Urbino, Italy.
- June 12-13, 2003. IGW/IODP, Capri, Italy.

September 1989. 3rd International Nannoplankton Association Meeting, Florence, Italy.

- April 1992. La Micropaleontologia degli Oceani, Milano, Italy (Italian Paleontological Society, SPI).
- October 4-9, 1992. APTICORE-ALBICORE Workshop, Perugia, Italy.
- October 1992. ODP related Workshop CIESM, Trieste.
- August 1994. ANTOSTRAT, Siena, Italy.
- September 20-23, 1999. GEOITALIA 99 Convention, Bellaria-Rimini, Italy. Marine Geology Symposium, Scientific Session on ODP Results.
- September 28-30, 1997. Neogene Mediterranean Paleoceanography International Conference, Erice, Trapani, Italy.
- October 16-18, 2000. Contourite Watch IGCP 432 Workshop, Trieste, Italy. Seismic Expression of Contourites. Co-Convenor: Rebesco
- May 31-June 2, 2001. International Conference on Paleobiogeography & Paleoecology, Piacenza & Castell'Arquato, Italy (Italian Paleontological Society, SPI).
- September 8-14, 2001. International ANTOSTRAT Symposium, Erice, Trapani, Italy. The Geologic Record of the Antarctic Ice Sheet from Drilling, Coring and Seismic Studies.
- September 14-16, 2002. 9th International Nannoplankton Association Meeting, Parma, Italy.

Italian participation in ODP related workshops and meetings
(see list of Abstracts)

- March 18-20, 1987. ECOD Workshop (in preparation to COSOD II), Gwatt, Switzerland. The Future of Ocean Drilling.
- July 6-8, 1987. COSOD II, Second Conference on Scientific Ocean Drilling, Strasbourg, France.
- May 5-7, 1988. ECOD Workshop, Helsinki, Finland. Drilling in the Atlantic.
- May 5-7, 1992. 4th ECOD Workshop, Rungstedgaard, Denmark.
- September 1994. 5th ECOD Workshop, Davos, Switzerland.
- June 24-27, 1996. SEPM Conference, Wildhaus, Switzerland. Carbonates and Global Change.
- May 22-25, 1997. 6th ECOD Workshop, Sundvolden, Norway. Land-Ocean Linkages.
- September 29-October 3, 1999. 7th ECOD Workshop, Amsterdam, NL. ECOD Highlights-Drilling Beyond 2003.
- February 28-March 1, 1996. 1st ODP EuroColloquium, Oldenburg, Germany.
- September 19-22, 1998. 2nd European ODP Forum, Edinburgh, Scotland, UK.
- April 10-11, 2000. 3rd European "OCEAN DRILLING PROGRAM" Forum, La Grande Motte, Montpellier, France.
- May 10-12, 2001. APLACON Meeting, Lisbon, Portugal.
- April 10-12, 2002. 4th European ODP Forum, Tromso, Norway.
- May 26-30, 1999. COMPLEX, Multiple Platform Exploration of the Ocean, Vancouver, Canada.
- July 9-19, 1989. 28th International Geological Congress, Washington, D.C., USA.
- September 1989. 3rd International Conference on Paleoceanography, Cambridge, UK.
- May 9-10, 1992. Geological Society of London Meeting, Cambridge, UK. Volcanism associated with extension at consumimg plate margins.
- September 21-25, 1992. 4th International Conference on Paleoceanography, Kiel, Germany.
- September 1992. IGCP Project 294 Meeting, Davis, California. The Transition from Basalt to Metabasalt.
- September 25-October 1, 1993. IAVCEI Congress, Canberra, Australia.
- 1993. Geofluids '93.
- April 19-21, 1994. ODP and the Marine Biosphere Meeting, Aberystwyth, Wales.
- March 1995. ODP related Workshop CIESM, Malta.
- October 1995, 5th International Conference on Paleoceanography, Halifax, Canada.
- June 24-27, 1996. SEPM Conference, Wildhaus, Switzerland. Carbonates and global Change.

- August 4-14, 1996. 30th International Geological Congress, Beijing, China.
- June 7-9, 1998. Subduction Factory International Workshop, La Jolla, California.
- September 1998. 8th International Symposium on Deep Seismic Profiling, Barcelona, Spain.
- September 24-28, 1998. 6th International Conference on Paleoceanography, Lisbon, Portugal
- July 5-9, 1999. 8th International Symposium on Antarctic Earth Sciences, Wellington, NZ.
- August 2000. 16th Conference on Clay Mineralogy and Petrology, Karlovy Vary, Czech Republic.
- March 2001. EGS, 26th General Assembly, Nice, France.
- November 8-9, 2001. ODP Contourite Core Workshop (IGCP 432), Bremen, Germany
- February 4-8, 2002. FORAMS 2002, International Symposium on Foraminifera, Perth, Australia.
- July 14-18, 2002. Workshop on Cretaceous Climate and Ocean Dynamics, Florissant, Colorado.
- August 18-23, 2002. 12th Goldschmit Conference, Davos, Switzerland.
- November 14-16, 2002. EEDEN Plenary Workshop, Frankfurt, Germany. The Middle miocene Crisis.
- December 9-11, 2002. Conference on Organic-carbon Burial, Climate Change and Ocean Chemistry (Mesozoic-Palaeogene), London.
- April 6-11, 2003. EGS-AGU-EUG Joint Assembly, Nice, France.
- European Union of Geosciences, Strasbourg, EUG Meetings: 6th (1991), 7th (1993), 9th (1997), 10th (1999), 11th (2001).
- American Geophysical Union, Spring Meetings: 1991, 1999, 2000, 2001. Fall Meetings; 1993, 1994, 1995, 1997, 1998, 2000, 2001, 2002.
- International Nannoplankton Association,Meetings: 1989 (3rd-Florence), 1991 (4th-Prague), 1993 (5th-Salamanca), 1995 (6th-Copenhagen), 2000 (8th-Bremen), 2002 (9th-Parma).

The Netherlands

ODP Highlights from a Dutch perspective

The Netherlands were one of those countries that initiated the European Consortium for Ocean Research Drilling in the fall of 1986. Since joining the Ocean Drilling Program (ODP) through a joint European membership in ECOD, the Dutch contribution ranged from 8% to 6% over the last three years. The Netherlands organisation for Scientific Research (NWO) contributed another ~0.55 m euros in the period 1996-2000, supporting PhD and postdoctoral students which led to a significant increase in the number of PhD theses that were published and included ODP related material. The scientific achievements are clearly reflected in the shipboard – and shore-based participation of the Dutch science community. More than 30 Dutch participants sailed on DSDP/IPOD/ODP legs. During the ODP phase (1985-2003), 20 scientists sailed, some of which as co-chiefs, as well as 3 industry representatives. Many more worked on ODP data in shore-based laboratories. A total of more than 10 PhD theses were, at least in part, based on ODP material and many more master's theses used ODP information. Dutch scientists were highly visible in the ODP science structure; more than 20 scientists were invited (nominated by the ECOD structure) to rotate on ODP/IODP advisory panels, councils and committees. Actual shipboard participation exceeded that based on the financial contribution by at least 3 (10%) in the 1985-2003 period. In the period 1975-1998 Dutch scientists published more than 1.32 times the number of (first or co-authored) "nonproceedings" publications as would be expected from the level of contribution and total number of publications for the European members. In fact, the Dutch scientists have provided the best value for money compared to most European partners.

The number of Dutch sample requests from 1986 up to present is 251 (30.913 samples). This number is very high when considering that the Netherlands contributed ~0.3% to the total cost of the program and submitted ~2.5% of the total number of sample requests during the ODP period. In other words, Dutch sample requests (as a measure of shore-based participation) were nearly 10 times higher than the level of contribution when compared to ODP partners in general. Most Dutch shipboard scientists were "re-shaped" by the experience of working for more than 2 months in "isolation" with an international science team using highly sophisticated technologies. Scientific careers and networks that participants developed were largely based on this experience and still influence the way individual scientists advance their future and marine science in general in the Netherlands.

National research groups like those at the Vrije Universiteit in Amsterdam, the Faculty of Earth Sciences and the Faculty of Biology of the Utrecht University, and Netherlands Institute for Sea Research at Texel, have been involved with ODP research and expressed a sincere interest in the future Integrated Ocean Drilling Program. NWO already recognises the importance of the problems of rapid and extreme climate variability and sensitivity of the Earth's climate, the coupling of biological and geological processes, and the relationships between geodynamic processes and source to sink transfer of material. In addition, it is expected that the geodynamic and rock physics communities, agrobiologists may join the program with the transition towards IODP. As a result, NWO, in 2002, committed itself towards IODP at even increased funding levels.

National scientists have been a big impact on the ODP program with several of those invited and sailing on recent ODP Legs (Dick Kroon,

Legs 171B and 208). Promising young scientists trained through the ODP system received special grants to continue their research (Luc Lourens, 2002). Jeroen Kenter of the Vrije Universiteit was nominated as the Chair of the ESCO in 2000 and as a consequence the ESCO office (with Sam Purkis as Science Coordinator) was hosted in Amsterdam for the period of 2,5 years up to the transition from ODP to IODP. The Dutch scientists were involved from the beginning with the integration and refocusing of European interest and membership in the new IODP Program. They are strongly represented in EU programs that structure and prepare the European participation as well as in the interim structure, European Consortium for Ocean Research Drilling (ECORD) through Raymond Schorno (NWO) as vice-Chair of the ECORD interim Council and Jeroen Kenter as interim Chair of the European Science and Support Advisory Committee (iESSAC). The Netherlands has offered to host the ESSAC Office in Amsterdam in the fall of 2003.

In summary, Dutch scientists have been actively involved in ODP and will do so in the new program for the reasons that it has yielded a new generation of scientists with a very successful publication turn out and new ideas for the future that includes not only the harvesting of many years of mapping the ocean's sub sea floor, but also an expansion to new, undiscovered, territories in shallow waters and ice covered regions that were inaccessible up to today. The following personal statement reflects the success and mindset of many young Dutch scientists.

Dr. Lucas J. Lourens, Utrecht University, Netherlands: "After being a shore-based scientist working on material from the Ocean Drilling Program for many years, I had recently the opportunity to sail with leg 208 and to help collecting the material and data sets myself. Leaving my wife and three young kids behind, I left home in the beginning of March 2003 for this two-month exciting adventure on the *JOIDES Resolution* to the Walvis Ridge in the South Atlantic. We had two long transits of approximately ten days each, thereby crossing the Atlantic Ocean from Rio De Janeiro to the drill sites and back again. These long transits enabled us to get used to the shipboard life, to know more from each other's scientific interests and to discuss and thoroughly work out the results we had obtained during the leg. I sailed as a stratigraphic correlator, being one of the two persons responsible for creating a composite depth record of each site and if necessary to advise the chief-scientists for making adjustments in the planned coring scheme of each hole. We succeeded to fulfil our main goals of this leg by for instance advanced piston coring the Paleocene-Eocene Thermal Maximum at five different water depths. This success was mainly due to the outstanding drilling technique of the program and the dedication of the drillers and technicians. Participating this cruise did not only increase my knowledge of Cenozoic climate history and paleoceanography, but showed me how an exclusive concentration of people were able to gain and treat an enormous amount of data in a relatively short-time period in a very pleasant atmosphere. This achievement made me again very clear that ocean drilling plays a crucial role for solving major Earth Science issues and that it lays at the basis of much intense international cooperation".

Lucas Lourens sailing as stratigraphic correlator on Leg 208 (Walvis Ridge). Photograph by Stephen A. Schellenberg (Department of Geological Sciences, San Diego State University).

Dutch Shipboard Scientists Legs 101 - 210

101	Joost W. Verbeek	Paleontologist (nannofossils)
117	Dick Kroon	Paleontologist (foraminifers)
121	Jan Smit	Paleontologist (foraminifers)
124	Alexandra Nederbragt	Paleontologist (foraminifers)
143	Jeroen A.M. Kenter	Physical Properties Specialist
150	W.H. Ten Kate	Sedimentologist
160	Gert Jan De Lange	Inorganic Geochemist
160	John M. Woodside	Logging Specialist
166	Jeroen A.M. Kenter	Physical Properties Specialist
171B	Dick Kroon	Co-Chief Scientist
171B	Jan Smit	Sedimentologist
175	J.H. Fred Jansen	Paleontologist (foraminifers)
189	Hendrik Brinkhuis	Palynologist
207	Astrid Forster	Organic geochemist
208	Lucas Lourens	Logging scientist, Paleontologist, Stratigrapher
208	Dick Kroon	Co-Chief Scientist

Dutch post-cruise scientists

101	Schlager
104	Bruns
107	Chamley
	de Visser
113	van Hinte
	Smit
	Brinkhuis
115	Davies
117	Smit
120	Bruns
	Brinkhuis
121	Brinkhuis
123	Cloetingh
124	van der Kaars
129	Bruns
133	Kroon
138	Kok
143	Schlager
149	Gervais
152	Andriessen
	Cloetingh
155	Straccia
157	de Lange
160	Nijenhuis
	Kroon
	Lourens
163	Andriessen
	Cloetingh
165	Smit
	Brinkhuis
	Troelstra
166	Kroon
169	Smittenburg
171	Brinkhuis
175	de Lange
181	Zachariasse
183	Bruns
189	Roehl
207	Brinkhuis
	Sluis

Dutch participation in the ODP Planning Structure (1986 - 2003)

1986 - 1988

- R. Wortel, (A) (TECP) Tectonics Panel
- P. Ziegler, (D) (PPSP) Pollution Prevention Safety Panel
- D. Jongsma, (D) Western Pacific Regional Panel
- J. Stel (EXCOM) Executive Committee
- R. van Lieshout (D) EMCO Chair

1989 - 1992

- S. Cloetingh, (D) (LITHP) Lithosphere Panel
- S. Cloetingh, (LITHP Liaison) (TECP) Tectonics Panel
- S. Cloetingh, (LITHP) Liaison (NARMDPG) North Atlantic Rifted Margin Detailed Planning Group (1991)
- S. Cloetingh (SLWG) Sea Level Working Group
- R. Wortel, (A) (TECP) Tectonics Panel
- A. Richards, (D) (SMP) Shipboard Measurements Panel
- A. Richards, (IHP) Information Handling Panel

- T.J. van Weering, (WPDPG) Western Pacific Detailed Planning Group (1989)
- W. Schlager, (A&GDPG) Atolls and Guyots Detailed Planning Group (1991)
- J. Hinte, (SLWG) Sealevel Working Group (1991)
- G. Marsh, (TEDCOM) Technology & Engineering Development Committee
- J. Stel (ODPC) ODP Council

1993 - 1996

- J. Smit (D) ESCO
- J. Stel (ODPC) ODP Council
- D. Kroef (ODPC) ODP Council
- J. Woodside (DMP) Downhole Measurement Panel
- A. Richards (IHP) Information Handling Panel

1997 - 2000

- J. Kenter (D) ESCO
- J. Kenter (A) (SCICOM) Science Committee
- J. Jansen (A) ESCO
- J. Stel (D) EMCO
- D. Smeulders (A) (SciMP) Scientific Measurement Panel
- J. Woodside (D) (SciMP) Scientific Measurement Panel
- G. DeLange (A) (PPG) Program Planning Group

2001 - 2003

- J. Kenter (D) (SCICOM) Science Committee
- J. Kenter (D) (iPC) Interim Planning Committee
- J. Kenter (D) ESCO
- R. Schorno (D) EMCO
- R. Schorno (D) ECORD iCouncil
- H. Doust (D) (iILP) Industry liaison panel
- J. Kenter ESCO Chairman
- J. Kenter iESSAC Chairman
- S. Purkis ESCO Science coordinator

ODP Proposals with a Dutch scientist as lead proponent

- 005 **Schlager**, Structural and Sedimentological Development of Carbonate Platforms: A Proposed Deep-Sea Drilling Program for the Northern Bahamas
- 063 **Schuttenhelm**, Madeira Abyssal Plain
- 205 **Schlager**, Proposal for ODP Drilling in the Bahamas - Carbonate Fans, Escarpment Erosion and the Roots of Carbonate Banks
- 538-Pre **Zachariasse**, Spectral Evolution of Late Neogene Proxy Records for Monsoonal Variability and OMZ Intensity in the Northern Arabian Sea
- 592-Pre **Andriessen**, Shallow Water Drilling in the Dogger Bank: Submersion History and Pore-Water Chemistry as a Key to Understand Sea-Level Movements, Paleo Land Distribution and Deglaciation of North Western Europe
- 549-Full Ulrich von Rad, **Jan Willem Zachariasse**, Shahid Amjad, Volkmar Damm, Jochen Erbacher, Notger Fechner, **Frederick Hilgen**, **Lucas Lourens**, Andreas Lückge, **Gert-Jan Reichart**, Hartmut Schulz and Muhammad Tahir, Monsoonal Variability and Oxygen Minimum Zone Intensity in the Northern Arabian Sea
- 555-Full A. Kopf, A.H.F. Robertson, E.S. Screaton, J. Mascle, R.J. Parkes, J.P.Foucher, **G.J. De Lange**, B. Stöckhert, D. Sakellariou, Backstop hydrogeology of a wide accretionary complex south of Crete, Eastern Mediterranean Sea
- 575-Full Peter B. deMenocal, Kensaku Tamaki, **Gerald Ganssen**, Francis H. Brown, Philip Huchon, Gen Suwa, Shigehiro Kato, Tim White, Warren Prell, Jan Backman, Gulf of Aden Drilling: Testing African Climate-Human Evolution Hypotheses
- 595-Full3/Add **D. Kroon**, Deep riser and non-riser drilling on the Indus Fan and Murray Ridge: reconstructing erosion of Tibet, western Himalaya and the Karakoram from the detrital record
- S2S-IODP **H. Doust**, **J. Kenter**, Source to Sink (S2S): Destination of clastic sediments in deltaic distributary systems from fluvial to deep-water environments

Dutch PhD projects based on ODP related material

- Beets, C.J., Calibration of late Cenozoic marine strontium isotope variations and its chronostratigraphic and geochemical applications, 1992. Vrije Universiteit, Amsterdam.
- Brummer, G.A., Planktonic foraminifers as tracers of ocean-climate history, 1988. Vrije Universiteit, Amsterdam.

- De Visser, J. Clay mineral stratigraphy of Miocene to Recent marine sediments in the Central Mediterranean. 1991. Universiteit Utrecht.
- Eijden van, A.J.M., Geohistory analysis of ODP Leg 121 and DSDP planktic foraminifers: paleoproductivity, fluxes, stable isotopes, and paeoecology, 1995. Vrije Universiteit, Amsterdam.
- Eijden, A. J. M. v., 1995, Geohistory analysis of ODP Leg 121 and DSDP planktic forminifers: Paleoproductivity, fluxes, stable isotopes, and paleoecology. PhD Thesis, Vrije Universiteit, Amsterdam.
- Hilgen, F.J. Astronomical forcing and geochronological application of sedimentary cycles in the Mediterranean Pliocene-Pleistocene. 1991. Universiteit Utrecht.
- Kenter, J.A.M., Geometry and Declivity of Submarine Slopes,1990. Vrije Universiteit, Amsterdam.
- Kok, Y.S., Reading the muddy compass. 1998. Universiteit Utrecht.
- Kroon, D., Planktonic foraminifers as tracers of ocean-climate history, 1988. Vrije Universiteit, Amsterdam.
- Lourens L.J. Astronomical forcing of Mediterranean climate during the last 5.3 million years. 1994. Universiteit Utrecht.
- Nederbragt, A.J., Biostratigraphy and palaeoceanographic potential of the Cretaceous planktic foraminifera Heterohelicidae, 1990. Vrije Universiteit, Amsterdam.
- Nijenhuis, I.A., Geochemistry of eastern Mediterranean sedimentary cycles. 1999. Universiteit Utrecht.
- Passier, H.F. Sulphur geochemistry and sapropel formation. 1998. Universiteit Utrecht.
- Peeters, F, The distribution an stable isotope composition of living planktic foraminifera in relation to seasonal changes in the Arabian Sea, 2000. Vrije Universiteit, Amsterdam.
- Reijmer, J.J.G., Sea level and sedimentation on the flanks of carbonate platforms, 1991. Vrije Universiteit, Amsterdam.
- Schefuss, E., Paleo-environmental effects of the Mid-Pleistocene Transition in the tropical Atlantic and equatorial Africa, 2003. Universiteit Utrecht.
- Van Dijk, J.P. Late Neogene fore-arc basin evolution in the Calabrian Arac (Central Mediterranean); Tectonic sequence stratigraphy and dynamic history. 1992. Universiteit Utrecht.
- Vonhof, H.B., The strontium isotope stratigraphic record of selected geologic events, 1998. Vrije Universiteit, Amsterdam.

Dutch hosting of IODP related workshops and meetings

- iILP, Amsterdam, Netherlands, 20-22 February 2003
- iTAP, Amsterdam, Netherlands, 21-22 February 2003
- iPC (co-organized), Ghent, Belgium, 27-29 August, 2002

Dutch hosting of ECOD related workshops and meetings

- ECOD Symposium, Amsterdam, 29 September - 2 October, 1999
- European ODP Forum (co-organized), Tromso, Norway, April 12-14, 2002

Dutch hosting of EAG / ECORD (EiC) related workshops and meetings

- JEODI Meeting by Work Packages 2, 6 and 7, Amsterdam, Netherlands, March 7-8, 2002
- JEODI Meeting by Work Packages 2, 6 and 7, Amsterdam, Netherlands, October 3-4, 2002
- iESSAC Meeting, Amsterdam, Netherlands, January 17, 2003
- JEODI Meeting on Alternate Platforms: Europe as the Third Leg of IODP (co-organised), Brussels, Belgium, 8-9 January, 2001
- ECORD iCouncil Meeting, Den Haag, Netherlands, August 26-27, 2003

Norway

ODP Highlights from a Norwegian perspective

Norway was one of the key participants in the establishment of the 12-member European Science Foundation Consortium on ODP (ECOD) in 1985 and hosted the ECOD science office 1986-89. The ODP membership has contributed to an internationalization and vitalization of Norwegian geoscience research. 33 Norwegians have been shipboard scientists one or several times, 5 of them as co-chief scientists. Also ODP has been very important in Norwegian geo-education and 14 PhD degrees are based on ODP related material. The list of ODP cited Norwegian scientists 1986-2002 contains 216 publications where 102 different Norwegian researchers have contributed. 8 Norwegian scientists have been lead proponents for ODP drilling proposals.

Norway is or has been member of several interrelated research programs such as the ESF program Late Cenozoic Evolution of the Polar North Atlantic Margins (PONAM), Nansen Arctic Drilling (NAD), Intercontinental Scientific Drilling Program (ICDP), InterRidge and InterMargins. Also Norway is a central member of the new ESF EUROCORES program EUROMARGINS.

ODP related research in Norway has a high level of activity and comprises a wide range of geoscientists within paleoceanography, sedimentology, geophysics, geochemistry, petrology, structural geology and microbiology. One of the central scientific problems has been studies of passive margins and large igneous provinces, especially mantle processes, crustal processes and the nature of continental breakup and environmental responses to breakup and magmatism. The ODP drilling in the Vøring area (Leg 104) off the mid-Norwegian coast which penetrated flood basalts, has made it possible to develop a detailed model of the geological history of the Vøring continental margin. The most fascinating chapter is a short-lasting period of large-scale volcanism during the breaking and separation of Norway and Greenland about 55 million years ago. As the oil industry is moving towards deeper waters off Norway, basic research is converging with the industry´s need for knowledge. The result of this interaction has been a fruitful co-operation between an active basic research environment and the oil industry.

A Norwegian geomicrobilogy group played the central role in the discovery and the initial exploration of the deep biosphere of the oceanic crust. In an ODP-core taken from 400 meters under the see floor at a depth of 3.400 meters in the Pacific, the group found clear traces of microorganisms that had dissolved volcanic glass along crack zones in glass layers in the lava rock. Previously this was considered to be nothing more than uninteresting contamination of the stone. Living organisms have not yet been observed directly, but color tests reveal the presence of DNA and high concentrations of potassium proving that this must be an instance of active life and not fossil DNA.

Norwegian scientists have paid much attention to gas hydrates both as a potential energy source and as a trigger mechanism for submarine slides. ODP´s extensive scientific and safety review process has allowed it to make discoveries in areas previously off limits to drilling, and ODP was the first to break through the “Bottom Simulating Reflector” (BSR) on Leg 112 off Peru in the mid-1980s. Breaking through the BSR has placed ODP at the forefront of gas hydrate research. The scientific results of these pioneering drilling campaigns have provided us with much needed basic knowledge on the dynamic fluid flow and gas hydrate formation mechanisms in deep

ocean sediments important for possible future industrial drilling for hydrocarbon exploration and exploitation.

Helga (Kikki) Flesche Kleiven (sedimentologist) in collaboration with Min-Te Chen (sedimentologist) and Pedro Crignola (Chilean observer) describing cores on the night shift during ODP Leg 202.

Paleoclimatology is a central part of Norwegian earth sciences research, and ODP has greatly extended our knowledge of long- and short-term climate change. There has been a special focus on the study of climate changes spanning the past 3 million years on both high and low latitudes. In July-August 1995 a young female student Helga (Kikki) Flesche Kleiven was offered the opportunity to sail as a Marine Laboratory Specialist on ODP Leg 162. Helga was in the last semester of her master's in marine paleoclimatology at the Department of Geology, University of Bergen where Professor Eystein Jansen, also co-chief during Leg 162, was her supervisor. Material drilled at the Gardar Drift (ODP Site 983) south of Iceland became the starting point for a PhD Thesis, which focused on detailed stable isotope studies across the mid-Pleistocene climate shift (0.6-1.2 Ma). The PhD thesis was supervised by Eystein Jansen and funded by the Research Council of Norway. Through her work of developing a new high-resolution stratigraphy for this time-interval, Helga spent half a year as a visiting researcher at the University of Florida, USA where she worked with Professors David A. Hodell and James E. T. Channell. This collaboration later led to several joint publications and new projects. She also had a research stay at University of Cambridge, UK, where she worked with Professor Sir Nicholas Shackleton on creating the first high-resolution, orbitally-tuned age model from the mid-Pleistocene North Atlantic.

After her Florida stay, Helga sailed as a Norwegian observer/sedimentologist on ODP Leg 177 in the Southern Ocean from December-February 1997-1998. Led by co-chiefs Rainer Gersonde and David A. Hodell, Leg 177 recovered unique sediments from a N-S transect through the Polar to Subtropical Fronts. Following her successful work on the mid-Pleistocene North Atlantic material, Helga took responsibility for the post-cruise science on the same interval from three high-resolution Sites spanning 53-41S. The Leg 177 material formed the central core of Helga's application to the Research Council for a two-year personal post-doctoral fellowship, which she started after gaining her PhD in January 2000. The first 6 months of her post-doc were spent in Cambridge, UK, collaborating with Professor Nick McCave and Dr. Ian Hall to apply grain-size methodology to the North Atlantic mid-Pleistocene samples from the Gardar Drift in order to reconstruct the paleo-intensity of the Iceland-Scotland Overflow. Following this work, Helga spent the next 18 months at the Lamont-Doherty Earth Observatory of Columbia University, USA working on Leg 177 material in collaboration with Dr. Lloyd Burckle, Dr. Gerard Bond and Dr. Ulysses Ninnemann.

Since her post-doc, Helga has worked as a researcher at the Bjerknes Centre of Climate Research in Bergen, applying stable isotope and grain-size methods to elucidate the connection between abrupt changes in ocean circulation and climate in the North Atlantic during the late Pleistocene and Holocene. In spring 2002 she sailed as a sedimentologist on Leg 202 in the South East Pacific. Using material recovered on

the leg, she hopes to characterize the role of the tropical and Southern Hemisphere oceans in the type of abrupt climate changes she has previously studied in the North Atlantic.

Spending in total a half year onboard the *JOIDES Resolution* has for Helga created an extensive international network of collaboration with some of the world´s foremost scientists. This documents the fantastic opportunities available for young researchers when exposed to the international research teams of the ODP legs.

Experiences from an ODP cruise (Or: how a microbiologist survive two months among geologists) by Kristine Lysnes (Department of Microbiology University of Bergen).
"I participated on the ODP Leg 187 to the Australian-Antarctic Discordance in November 1999 - January 2000. I had never been on a similar cruise before, so as a fresh PhD student and a microbiologist, it was very educational and challenging to work with geological samples with the help of more experienced scientists. On a professional level, this cruise has given me valuable results for my study of microbial populations present in the oceanic crust.

My personal experience with the ODP and the *JOIDES Resolution* is purely positive. The microbiology lab and facilities were first build on the JOIDES for Leg 185, so the lab was new and this was only the second cruise in which one of the focuses was microbial populations in the oceanic crust at non-hydrothermal sites. The microbiology equipment on board was sufficient and good. The ODP staff have also been nice and helpful both before and after the cruise.

The only negative thing I can think of is that two months at sea was a long time. Time went faster than anticipated, though, with the help of nice co-workers and recreation facilities on board (books, movies, and gym). I wouldn't hesitate to participate on a cruise like this again".

Norwegian Shipboard Scientists Legs 101 - 210

104	Olav Eldholm	Co-Chief Scientist
104	Robert Goll	Paleontologist (radiolarians)
104	Kiell Bjørklund	Paleontologist (radiolarians)
104	Eystein Jansen	Paleontologist (planktonic foraminifers)
104	Gunnbjørg Qvale	Paleontologist (benthic foraminifers)
113	Per Kristian Egeberg	Sedimentologist
114	Yngve Kristoffersen	Co-Chief Scientist
119	Anders Solheim	Physical-Properties Specialist
123	Cedric M. Griffiths	Logging Scientist
124	Karl Oscar Sandvik	Sedimentologist
125	Bjørg Stabell	Paleontologist (diatoms)
126	Per Kristian Egeberg	Inorganic Geochemist
130	Eystein Jansen	Sedimentologist
135	Reidulv Bø	Sedimentologist
146	Martin Hovland	Organic Geochemist
147	Rolf-Birger Pedersen	Igneous Petrologist
148	Harald Furnes	Igneous Petrologist
151	Annik M. Myhre	Co-Chief Scientist
151	Nalan Koc	Paleontologist
151	Torben Fronval	Sedimentologist
162	Eystein Jansen	Co-Chief Scientist
162	Espen S. Andersen	Physical Properties Specialist
162	Anders Solheim	Physical Properties/ Geophysics Specialist
163	Sverre Planke	JOIDES Logger/ Geophysicist
164	Per K. Egeberg	Inorganic Geochemist
169	Rolf Amle	Engineering Participant
169	Terje Bjerkgård	Ore Petrologist
170	Ola Sæther	Sedimentologist
171	Olav Hansen	Geophysicist
172	Sveinung Hagen	Sedimentologist
177	Carin Andersson	Paleontologist (foraminifers)
177	Helga F. Kleiven	Observer and Sedimentologist
181	Felix Gradstein	Paleontologist (foraminifers)

187	Rolf-Birger Pedersen	Co-Chief Scientist
187	Kristine Lysnes	Microbiologist
187	Ingunn H. Thorseth	Petrologist
188	Carl Fredrik Forsberg	Physical Properties Specialist
193	Terje Bjerkgård	Petrologist, Structural Geologist
194	Stephen Ehrenberg	Sedimentologist
202	Helga F. Kleiven	Sedimentologist
204	Maarten Vanneste	Geophysicist

Norwegian post-cruise scientists

104	Per Aagaard
	Hans Petter Sejrup
	Svein B. Manum
	Malvin Bjorøy
	Elen Roaldset
	Harald Furnes
	Barry Dale
	Henning Dypvik
	Jenø Nagy
	Torben Fronval
	Tore Gjelsvik
	Nalan Koc
	Kjell Bjørklund
	Bjørg Stabell
	Kristine Lysnes
	Svein B. Manum
	B. Tørrudbakken
106	Harald Furnes
108	Eystein Jansen
	Jorunn Sjøholm
	Jürgen Mienert
111	Eystein Jansen
	Hans Schrader
	Harald Furnes
	Rolf Birger Pedersen
112	Hans Schrader
113	Hans Schrader
	Berit Kuvås
	Yngve Kristoffersen
	Kjell Bjørklund
114	Jürgen Mienert
115	Felix Gradstein
119	Carl Fredrik Forsberg
	Hans Schrader
123	Felix Gradstein
130	Kjell Bjørklund
135	Cedric Griffiths
	Harald Furnes
137	Harald Furnes
138	Hans Schrader
148	Harald Furnes
151	Eystein Jansen
	Torben Fronval
	Morten Hald
	Bjørg Stabell
	Kjell Bjørklund
	Svein B. Manum
	Anders Solheim
	Jürgen Mienert
	Carl Fredrik Forsberg
152	Felix Gradstein
	Sverre Planke
	Nalan Koc
154	Jürgen Mienert
162	Carl F. Forsberg
	Eystein Jansen
	Anders Elverhøi
	Nalan Koc
	Tor Eidvin
	Svein B. Manum
	Morten Smelror
	Helga Kleiven
	Carin Andersson
	Feisal A. Butt
	Reidar Løvlie
177	Helga Kleiven
	Eystein Jansen
	Trond Dokken
183	Sverre Planke
184	Tom Lunne
	Anders Solheim
205	Ola Sæther

Norwegian participation in the ODP Planning Structure (1986 - 2003)

1986 - 1988

- T. Vorren, (A) (SOHP) Sediments And Ocean History Panel
- J. Hovem, (until 10/1987); A. Kristensen, Norway (D) (DME) Downhole Measurements Panel
- H. Schrader, (D) Central & Eastern Pacific Regional Panel
- Y. Kristoffersen, (D) Southern Oceans Regional Panel
- O. Eldholm (chair) ESCO, (D) PCOM
- L. Westgaard (D) EMCO

1989 - 1992

- E. Jansen, (D) (OHP) Ocean History Panel
- T. Vorren, (A) (SGPP) Sedimetary and Geochemical Processes Panel
- M. Hovland (A) (PPSP) Pollution Prevention Safety Panel
- A. Solheim, (A) (SMP) Shipboard Measurements Panel
- H. Strand, (D) (TEDCOM) Technology & Engineering Development Committee
- H. Schrader, (CEPDPG) Central Eastern Pacific Detailed Planning Group (1989)
- O. Eldholm, (NARMDPG) North Atlantic Rifted Margin Detailed Planning Group (1991)
- E. Jansen, (NAAGDPG) North Atlantic Arctic Gateway Detailed Planning Group (1991)
- T. Vorren, (NAAGDPG) North Atlantic Arctic Gateway Detailed Planning Group (1991)
- L. Westgaard (EXCOM) Executive Committee
- T. Pedersen (D) EMCO
- E. Jansen (D) ESCO

1993 - 1996

- L. Westgaard (ODPC) ODP Council
- T. Pedersen (ODPC) ODP Council
- L. Westagaard (member) (EXCOM) Executive Committee
- O. Eldholm (D) (EXCOM) Executive Committee
- Y. Kristoffersen (A) (PCOM) Planning Committee and (D) ESCO
- B. Rasmussen (D) (TEDCOM) Technology & Engineering Development Committee
- J. Skogseid (D) TECP Tectonics Panel
- S. Planke (A) DMP Downhole Measurement Panel
- M. Hovland (D) PPSP Pollution prevention and Safety Panel
- J. Sættem (D) PPSP Pollution prevention and Safety Panel
- P. K. Egeberg (A) SMP Shipboard Measurement Panel
- T. Pedersen (D) EMCO
- Y. Kristoffersen (D) ESCO

1997 - 2000

- S. Planke (D) (SciMP) Scientific Measurement Panel
- J. Sættem (A) (SSP) Site Survey Panel
- K. Andreassen (D) (PPSP) Pollution Prevention Safety Panel
- J. Sørbø (A) (TEDCOM) Technology & Engineering Development Committee
- Y. Kristoffersen (A) SCICOM Science Committee
- J. Skogseid (D) (SSEPs) Science Steering Evaluation Panel (Earth's Interior)
- J. Sættem (A) (PPSP) Pollution Prevention Safety Panel
- B. Rasmussen (D) (TEDCOM) Technology & Engineering Development Committee
- T. Pedersen (D) EMCO
- A. Solheim (D) ESCO

2001 - 2003

- A. Solheim (A) (EXCOM) Executive Committee
- S. Stokka (D) (TEDCOM) Technology & Engineering Development Committee
- N. Koc (A) (SSEPs) Science Steering Evaluation Panel (Earth's Environment)
- R. B. Pedersen (D) (SSEPs) Science Steering Evaluation Panel (Earth's Interior)
- A. Birger Carlson (D) EMCO
- A. Solheim (D) ESCO

ODP Proposals with a Norwegian scientists as lead proponent

- 320 Jansen, E.: A Proposal for ODP Drilling in the Nordic Seas (the Arctic Ocean - the Norwegian/Greenland/Iceland Sea - the NW Atlantic Ocean System), Addressing High Northern Latitude Paleoceanography and Paleoclimatology
- 358 Eldholm, O: Formation of Volcanic Rifted Passive Continental Margins: Proposal for a Drilling Transect at the Vøring Margin
- 397 Skogseid, J.: Mantle Plume Interaction With Melting During Lithospheric Extension — Multiple Rifting in the Tertiary North Atlantic Region
- 416-Rev Solheim, A.: Glacial History of the High European Arctic: Drill-Sites on the Svalbard Margin
- 488 Kristoffersen, Y.: Linking Changes in Southern Ocean Circulation and Terrestrial Events in East Antarctica - the Weddell Sea Record
- 496-Rev Planke, S.: Formation of a volcanic

rifted margin in a non-mantle plume environment – a proposal to drill the Cuvier volcanic margin off Western Australia

- 557-Pre Mienert, J.: Norwegian Margin Gas Hydrate Drilling
- 557-Full2 Andreassen, K: Storegga Slide Gas Hydrate Drilling
- 588-Full Gradstein, F.: The Cretaceous Gateway between the Arctic and Atlantic Oceans
- 628-Pre Dypvik, H.: Barents Sea Impact Crater

Norwegian PhD projects based on ODP related material

- Egeberg, P.K., 1988. "Water-rock interactions in the diagenetic environment; Deep sea sediments and deeply buried chalks and sandstones". Dr.scient. thesis, University of Oslo
- Skogseid, J., 1989. "Vøring continental margin: Magmatic - tectonic evolution, sedimentation and basin subsidence". Dr.scient. thesis, University of Oslo.
- Sjøholm, I.J., 1992. "Late Tertiary and Quaternary stratigraphy in the Norwegian Sea, with emphasis on the development of glaciation in the Northem Hemisphere". Dr.scient thesis, University of Bergen.
- Koc, N., 1993. "Application of marine diatoms for palaeoceanographic reconstructions of the Greenland, Iceland and Norwegian Seas". Dr.scient thesis, University of Bergen.
- Planke, S., 1993. "Rifting and continental breakup: Seismic response and crustal evolution with emphasis on the Vøring margin". Dr.scient thesis, University of Oslo.
- Thorseth, I.H., 1994. "Alteration of Basaltic Glass. Texture, Geochemistry and Microbial Interaction".Dr.scient thesis, University of Bergen.
- Forsberg, C.F., 1996. "The conditions and processes at the base of glaciers and ice streams as witnesses by the geotechnical properties of glacigenic sediments". Dr.scient thesis, University of Oslo.
- Andreassen, K., 1996. "Seismic reflections associated with submarine gas hydrates". Doctoral thesis, University of Tomsø.
- Hjelstuen, B.O., 1997. "The Cenozoic Vøring and Barents Sea continental margins". Dr.scient thesis, University of Oslo.
- Gladcenko, T., 1999. "The crustal structure and composition of Large Igneous Provinces". Dr.scient thesis, University of Oslo.
- Kleiven, H.F., 1999. "Orbital and millenial scale ice sheet and ocean variability in the North Atlantic during the Pliocene and Pleistocene climate transition". Dr.scient thesis, University of Bergen.
- Berndt, C., 2000. "Continental breakup volcanism on the Norwegian margin". Dr.scient thesis, University of Oslo.
- Butt, F.A., 2000. "Late Cenozoic shifts in climate, topography and depositional environments in the Polar North Atlantic: Causes and impacts as evidenced from ODP data and numerical simulations". Dr.scient thesis, University of Oslo.
- Eidvin, T., 2001. "Late Caenozoic stratigraphy of the Norwegian continental shelf". Doctoral thesis, University of Bergen.

Norwegian hosting of ODP related workshops and meetings

- June 16-17, 2003, Sola: iPPSP-meeting
- April 8-9, 2002, Tromsø: 34th Joint EMCO-ESCO meeting
- April 10-12, 2002, Tromsø: 4th ODP Euro-Forum.
- May 21-22, 1997, Sundvollen: 6th ECOD workshop Land Ocean Linkages.
- June 23-26, 1996, Oslo: EXCOM meeting.

Portugal

ODP Highlights from a Portuguese perspective

Portugal joined ODP in 1998, with an official announcement of this decision by the Minister of Sciences and Technology at the time, Prof. Mariano Gago. Since this official participation started, we can say that the Portuguese Geoscientists have gained in all senses, from a position in the planning structure of the program, with the possibility of contributing to the making of decisions both in which respects the formulation of scientific hypothesis and the implementation of new projects, to the contribution in the evaluation of new scientific proposals and the possibility to participate in the ODP Legs as well as on the post Leg work. The participation on ODP Legs, in particular, gave to the Portuguese geoscientific community the possibility to get involved in multidisciplinary and international cooperation, fundamental for the advancement of science in any country.

Within the 5 years of participation, Portugal has been capable to exceed its participation quota, with the participation of two scientists and a Co-chief (extra quota), and many other colleagues have applied to participate in the last legs, although with no chance given the always present, high interest from all the other countries.

Susana Lebreiro (on the right side) in action during ODP Leg 157, describing a core at the same time as color scanning is being performed.

Susana Lebreiro: "My participation in the ODP Leg 157- Madeira Abyssal Plain and Gran Canaria, in 1994, was as a British scientist (at the time Portugal was not an ODP member and thus participation was not possible the Portuguese researchers), invited by the British co-chief scientist, P.P.E. Weaver. I was then a final-year Portuguese, FCT supported, PhD-student at the University of Cambridge, England, working in deep sea environments and sediments, and in particular, turbidites emplaced in abyssal plains located in the Portuguese Margin, a common subject to this ODP Leg. I consider the experience aboard the *JOIDES Resolution* extraordinary in terms of putting together a group of scientists and technicians of different fields of knowledge, countries and universities. The ODP is one of the great examples of real interdisciplinary research, since a group must work intensively and simultaneously to obtain and integrate enough results in a limited period of time (two month cruise). The culmination of this work must be the production of an issue of the so-called 'ODP-Initial Reports', which must be ready at the end of each leg, before departure from the ship. The ship is equipped with some of the best equipment used in many fields of the marine sciences. For me, it was the first time that I had encountered most instruments. The boiling scientific atmosphere, and new friendship created among participants remained long after the cruise and resulted in numerous collaborative publications.

In my case, my participation in ODP Leg 157 also gave me the opportunity to extend my stay in the United Kingdom, as I became involved in a 2-year postdoctoral research project, working with P.P.E. Weaver and other participants of Leg 157. I worked on 3 sediment cores collected during the cruise and benefited from the scientific quality of the

Southampton Oceanography Centre, a leading European centre for marine sciences.

The ODP is a top reference for the marine geological community and a unique scientific experience. Portuguese scientists should all have the opportunity to share the opportunity with their international colleagues and therefore to have their say within the international community. My participation in ODP Leg 157 and the subsequent work carried out at the SOC represents an important contribution to my scientific career in general, with later application to my present-day professional life in the Dept. of Marine Geology at the Institute of Geology and Mining in Portugal (1998 onwards)".

Portuguese Shipboard Scientists Legs 101 - 210

193	Fernando Barriga	Co-chief scientist
193	Álvaro Pinto	Sulfide Petrologist
202	Fatima Abrantes	Paleontologist (diatoms)

Portuguese Shipboard Scientists who sailed from non-ECOD countries (Legs 101 - 210)

149	Luis Pinheiro	Geophysicist Portuguese Fellow in the UK
157	Susana Lebreiro	Sedimentologist Portuguese Fellow in the UK

Portuguese participation in the ODP Planning Structure (1986 - 2003)

1997 - 2000

- J. Monteiro ESCO (D)
- F. Abrantes (A) (SSEPs) Science Steering Evaluation Panel (Earth's Environment)

2001 - 2003

- F. Abrantes ESCO (D)
- J. Monteiro EMCO (D)
- L. M. Pinheiro (A) (SSEPs) Science Steering Evaluation Panel (Earth's Interior)

Portuguese student trainees who participated on ODP Legs 101 - 210

- Susana M. Lebreiro
- Luis M. Pinheiro
- Alvaro Pinto

Portuguese Mission Specific Platform Proposals presently under consideration

- Pre-proposals presented at the Aplacon Meeting - An International Conference aiming at integrating Alternate Platforms (Mission Specific Platforms as part of the IODP), 10-12 May/2001, Lisbon:
- Tagus Abyssal Plain: sediment transport through submarine canyons - **S.M. Lebreiro, F. Abrantes, H. Monteiro, P.P.E.** Weaver, N. Kenyon and I.N. McCave.
- Climate history of the Mediterranean Outflow contour currents - **S.M. Lebreiro, F. Abrantes, H. Monteiro**, A.H. Voelker, J. Schonfeld, T. Mulder, J.-C. Faugères and P.P.E. Weaver.
- Phosphate and Associated Sediments on the Western Iberian Margin: A record of ocean changes. - **Monteiro H.**, Gaspar L. and Pais, J.
- Discovering the Hidden History of the Lucky Strike Hydrothermal Field-Understanding the Relationship between Hydrothermal Activity, Magmatic Evolution and Volcanic Style -Ferreira P., Murton B., Barriga P. **Monteiro, H.** Roberts, S., Boulter, C. Inverno, C., Munha J., Costa I., Pinto A., Cunha M.

Portuguese PhD projects based on ODP related material

- Sandra Vaqueiro Remigio - "Productivity variations off Portugal and Benguela Upwelling Systems over the last Two Climatic Cycles (300 - 0 kyr): A Diatom perspective"

- Alvaro Pinto: Genesis of the Pacmanus (Leg 193) sulfides. Comparison with ancient massive sulfide deposits, especially in the Iberian Pyrite Belt.

Portuguese participation and hosting of ODP related workshops and meetings

- May, 25 1993 - Lisbon Port call of the "*JOIDES Resolution*" at the end of Leg 149. ODP Science Conference , organized by the Portuguese Geological Survey, Lisbon
- ODP Leg 149: Testing a model of Passive Margin Formation in the Iberia Abyssal Plain. Presented by Dale Sawyer and Robert Withmarsh
- March, 7 - 8, 1996, ODP PPSP Pollution Prevention & Safety Panel Meeting, Organization and hosting by the Portuguese Geological Survey
- March , 6 - 8, 1997 - Organization and hosting of the 24th ESCO meeting by the Portuguese Geological Survey, Lisbon
- April 15 - 20, 1998 - *JOIDES Resolution* port call Lisbon
- April 18, 1998 - ODP tribute to Mário Soares and Eugen Seibold. Official announcement of the Portuguese decision to joint the ODP Program as part of the ESF consortium (ECOD). ODP Science Conference organized by the Portuguese Geological Survey
- ODP Leg 171B at Blake Nose, Florida: Prime evidence for large impact events at the Cretaceous/Tertiary Boundary and the Late Eocene. By Jan Smit.
- October 14-19, 2002 - Leg 193 Second Post Cruise Meeting. This meeting took place in Lisbon, Castro Verde and Aljustrel, with participation of 18 researchers from Australia, Germany, Japan, Papua New Guinea, South Corea, United Kingdom, USA and Portugal. The purpose of the meeting was reciprocal reporting on post-cruise research for ODP Leg 193, which took place from 7 Nov 2000 to 3 Jan 2001, in Papua New Guinea waters and was dedicated to study of the Pacmanus active hydrothermal field in a back-arc basin. The meeting was organized by the two Portuguese researchers that participated in the leg (Fernando Barriga, Co-Chief Scientist, Alvaro Pinto, Ore Petrologist). The meeting took place in Portugal by unanimous decision of the scientific participants, given favourable logistics and also to include technical visits to mines in southern Portugal (Neves Corvo and Aljustrel), geological analogues of the Pacmanus active system.

Portuguese participation and hosting of JEODI related workshops and meetings

- May 10-12, 2001 - Organization and hosting of the APLACON meeting in Lisbon. - This International Conference aiming at integrating Alternate Platforms (Mission Specific Platforms as part of the IODP) was organized as part of the JEODI program, with local organization by J.H. Monteiro and F. Abrantes in collaboration with the ICCTI personnel. This meeting had the participation of more than 100 scientists from 25 countries and presentation of 50 pre-proposals for mission specific platforms.

Spain

ODP Highlights from a Spanish perspective

Spanish participation in the Ocean Drilling Program was posed as a challenge since its very inception. The participation of Spanish researchers in the predecessor of DSDP -the Deep Sea Drilling Project- had been very restricted, although many investigators and institutions had shown great interest in actively joining the program. In 1986, with the collaboration of the Spanish Administration (the *Comisión Interministerial de Ciencia y Tecnología- CICYT-* the *Consejo Superior de Investigaciones Científicas -CSIC-* the *Instituto Español de Oceanografía-IEO,* and the *Instituto Geológico y Minero de España - IGME)* and the participation of two commercial enterprises -Repsol Exploración S.A and SECEG S.A-, Spain entered the ESF/ECOD (European Science Foundation Consortium for Ocean Drilling) with full rights for its scientists and institutions to participate in ODP projects. Many scientists from Universities and Research Agencies for the Earth Sciences in Spain – specialists in the fields of Sedimentology, Palaeo-oceanography, Palaeontology, Geochemistry, Igneous and Metamorphic Petrology, Structural Geology, and Geophysics- have contributed with their expertise to the development of the ODP in different activities organised by the program. Renowned Spanish investigators have been members of different steering, scientific and technical assessment committees; they have been co-proposers to the ODP of drilling campaigns and have been present on many legs, working aboard the *JOIDES Resolution*. Much important research work has also been carried out at Spanish laboratories on samples and data obtained on those legs, and Spanish scientists have participated in the publication of the results concerning the findings and discoveries of the ODP. On many occasions, the efforts of different teams from different geographic areas have focused on the analysis and study of the regions in which some of the campaigns were later carried out, with the accompanying enrichment of our knowledge in the field. All this is represented in the accompanying annexes and tables.

Along the development of the Program, the data and samples collected in the ODP have and continue to be the basis of Spanish Research Projects, at both national and local level, and have been addressed in many doctoral theses. In some cases, the accomplishment of such work has led to the consolidation of highly competitive teams. The ODP has also represented an unparalleled platform for impelling international scientific collaboration, from which the Spanish community has undoubtedly drawn huge benefits. In light of all the above, the Spanish contribution to the ODP can be said to have been highly positive and it is hoped that this will continue in the future with the initiation of the IODP.

Dr. Isabel Cacho, University of Barcelona

Dr. Isabel Cacho, University of Barcelona: "Last year I got the opportunity to participate in the ODP Leg 202. This was for me the first time I became involved in some way with the ODP program. I was the last scientist joining the group and I had to re-

schedule many things in order to fit those last moment sailing plans, but it was worth to do it. We started in Valparaiso (Chile) drilling off central Chile, Peru and ending in the North Panama Basin. I had few previous experiences sailing in different sorts of oceanographic cruises, with very different vessels, but nothing which could be compared with the *JOIDES Resolution*. All the equipment available on board makes the *JOIDES Resolution* a very powerful laboratory, and it is difficult to find all that potential together in on shore laboratories. But soon, I realized that all that potential was, indeed, intensively used onboard. We were drilling mostly late Quaternary sedimentary sequences, very easy sediments to be drilled by the *JOIDES Resolution*. Cores were coming onboard very rapidly, faster than our processing speed and they managed to keep us extremely busy for the full leg. All together, scientist, technicians and drillers worked very hard and we succeed in drilling and processing 11 sites which achieved fruitfully our objectives: to obtain high sedimentary continuous sequences for palaeoceanographical - paleoclimatic studies covering the Miocene, Pliocene and Pleistocene. I sailed as a sedimentologist and this experience gave me the opportunity to collaborate directly with many other scientists, specialised in different but complementary disciplines, bringing up a unique opportunity for an intensive learning and training practice. This leg also gave me my first opportunity to collaborate directly with scientist abroad the context of Europe. I definitely believe that this drilling program plays a vital role in many senses: supplying extremely high quality material and data for several different relevant research; making interact scientists from many different specialities, experiences and nationalities".

Spanish Shipboard Scientists Legs 101 - 210

103	M. C. Comas	Sedimentologist
103	Emilio Luna	Logging Specialist
133	Jose Manuel Martin	Sedimentologist
138	José-Abel Flores	Paleontologist (nannofossils)
149	María Carmen Comas	Geophysicist
156	Maria José Jurado	
157	Jesus Baraza	Physical Properties Specialist
160	Maria José Jurado	
161	María Carmen Comas	Co-Chief Scientist
161	Juan I. Soto	Science Observer
171B	Francisca C. Martinez -Ruiz	Sedimentologist
177	José-Abel Flores	Paleontologist (nannofossils)
177	Isabel Cacho	Physical Properties Specialist
178	Carlota Escutia	Sedimentologist/ Seismic Stratigrapher
178	Andrés Maldonado	Sedimentologist
190	Mario Sánchez-Gómez	Structural Geologist
202	José-Abel Flores	Paleontologist (nannofossils)
204	Eulàlia Gràcia	Sedimentologist
209	Carlos Garrido	Inorganic Geochemist
209	Miguel Crespo	Paleomagnetist

Spanish post-cruise scientists

- Belen Alonso
- Gemma Ercilla
- Miquel Canals
- Mario Sanchez Gomez
- Victor Garcia Dueñas
- Jose Miguel Azañon
- Jose-Maria Gonzalez Donoso
- Dolores Linares
- Francisco Serrano
- Miguel Ortega Huertas
- Inmaculada Palomo
- Cristino Dabrio
- Eustoquio Molina
- Fernando Nieto
- Fernando Gervilla
- Jose Rodriguez Fernandez
- Juan Carlos Braga
- Isabel Almarzo
- Guillermo Booth Rea
- Jose Miguel Martinez Martinez
- Joan Grimalt
- Joan Villanueva
- M. Fernanda Sánchez Goñi
- Guillermo Frances

- M.AngelesBarcena
- Francisco J. Sierro
- Jorge Civis
- Antoni Rosell-Mele
- Carlos Lancis
- Santiago Ledesma
- Isabel Cacho
- Ana Moreno
- Marta Perez Folgado
- A.R. Talukder
- David Gallego Torres
- Francisco José Jiménez Espejo
- Elena Colmenero
- Isabel Reguera
- Carmen Alvarez
- Juan C. Larrasoaña
- Roberto Theron

Spanish participation in the ODP Planning Structure (1986 - 2003)

1986 - 1988

- A. Maldonado (D) ESCO
- A. Maldonado, (A) Atlantic Regional Panel
- E. Luna Sierra, (D) (TEDCOM) Technology & Engineering Development Committee
- J. L. Almazán (D) EMCO
- J. L. Almazán ODP Council

1989 - 1992

- A. Maldonado (D) ESCO
- A. Maldonado, (FPAPWG) Fluid Processes in Accretionary Prism Working Group (1990)
- J. Acosta (A) EMCO
- J. L. Almazán (D) EMCO
- J. L. Almazán (D) ODP Council
- M.C. Comas (A) ESCO
- M.C. Comas, (NARMDPG) North Atlantic Rifted Margin Detailed Planning Group (1991)

1993 - 1996

- A. P. Perez (ODPC) ODP Council
- A.P. Estaun (D) EMCO
- B. Alonso (A) ESCO
- E. Banda (A) (LITHP) Lithosphere Panel
- M. C. Comas (D) ESCO
- M.C. Comas (A) (EXCOM) Executive Committee

1997 - 2000

- A. Barnolas (A) EMCO
- B. Alonso (A) ESCO
- J. Acosta (A) EMCO
- J. Flores (D) ESCO
- J.J. Dañobeitia (A) (PPSP) Pollution Prevention and Safety Panel
- M.C. Comas (D) EMCO Chair
- M.C. Comas (D) EXCOM Executive Committee
- M.C. Comas (D) ODP Council

2001 - 2003

- A. Barnolas (A) EMCO
- B. Alonso (A) ESCO
- J. Dañobeitia (D) (PPSP)
- J. Flores (D) ESCO
- J.Acosta (A) EMCO)
- J.J. Danobeitia (D) (PPSP) Pollution Prevention and Safety Panel
- M.C. Comas (A) EXCOM
- M.C. Comas (D) EMCO Vice-Chair
- M.C. Comas (D) ODP Council

ODP Proposals with a Spanish scientists as lead proponent

- Iberia Abyssal Plain (Leg 149)
- Volcanic Island-Clastic Apron - Madeira (Leg 157)
- Western Mediterranean (Leg 161)
- Southern Ocean Paleoceanography Leg 177
- Antarctic Glacial History and Sea-Level Change (Leg 178)

Active ODP Proposals

- Gulf of Cádiz COMPLEX Conference on Multi-Platform Exploration Ocean Drilling Post-2003

Spanish Mission Specific Platform Proposals presently under consideration

- Southern Ocean paleoceanography in Southern Ocean (Antarctic and Subantarctic) (IMAGES Antarctic Working Group), pre-proposal MSP.

Spanish PhD projects based on ODP related material

- Francés, G. Foraminíferos bentónicos y paleoceanografía del Pliocxeno Superior en el Atlántico norte: incidencia de la glaciación en las comunidades abisales, Universidad de Salamanca, 1992
- Bárcena, M.A. Diatomeas del Cuaternario superior del Océano Antártico (Sector Atlántico): aportaciones a la reconstrucción paleoceanográfica. 1993.
- Lancis, C. El Nanoplancton calcareo de las cuencas neógenas orientales de la Cordillera Bética. Universidad de Alicante, 1998.
- Ledenma, S. Astrobiología y estratigrafía de alta resolución del Neógeno de la Cuenca del Guadalquivir-Golfo de Cádiz. Universidad de Salamanca, 2001.
- Cacho, I. Respuesta del Mediterráneo occidental a los cambios climáticos rápidos en los últimos 50.000 años. Análisis de biomarcadores moleculares. Universidad de Barcelona, 2000.
- Moreno, A. Registro del aporte de polvo de origen sahariano y de la productividad oceánica en la Cuenca del Norte de Canarias y en el Mar de Alborán. Universidad de Barcelona, 2002.
- Pérez-Folgado, M. Variabilidad climática orbital y suborbital en el Mediterráneo Occidental: Análisis de alta resolución del registro micropaleontológico. Universidad de Salamanca, 2003.
- David Gallego Torres. Acumulación y preservación de materia orgánica en cuencas sedimentarias: Implicaciones en los ciclos del Carbono y nutrientes. 2002- in progress, Universidad de Granada
- Francisco José Jiménez Espejo. Variabilidad climática en el Mediterráneo Occidental durante el Pleistoceno superior-Holoceno y su impacto en la evolución humana de la Península Ibérica. 2001- in progress, Universidad de Granada
- Guillermo Marro Franco de Espés. El margen ibérico de la Cuenca del Mar de Alborán Oriental, y su tránsito a la Sur-Balear: Caracterización geofísia, morfoestructural, y tectónica activa. 2002- in progress, Universidad de Granada
- Fermin Fernández Ibáñez. Tectonica activa y estructuras seismogénicas en la Cuenca del Mar de Alboran. 2003-in progress, Universidad de Granada
- Asrarur Rahman Talukder. La provincia diapírica de lodos en la Cuenca Oeste del Mar de Alboran: estructuras, génesis y evolución. 2003, Universidad de Granada
- GuillermoBooth Rea. Tectonica Cenozoica en el Dominio Cortical de Alboran. 2002, Universidad de Granada

Spanish hosting of ODP related workshops and meetings

- Alboran Sea International Workshop, 2-5 December 1990
- Leg 133 Post-Cruise Meeting, Granada, 25-30 September 1991
- Tectonic Panel Meeting (TECP), Granada, 20-27 Septembre 1992
- Leg 161 Post-Cruise meeting, Mojacar (Almeria), 15-19 Julio 1996
- Leg 171 Post-Cruise meeting, Granada, 17-21 August 1998
- CIESM Workshop: Mediterranean Scientific Drilling Prospectives, Granada, 10-12 June 1999
- The V Geological Congress of Spain Round Table: El “Integrated Ocean Drilling Program-IODP”: Perspectivas de participación española en la iniciativa Europea, Objetivos científicos y tecnológicos para el futuro, Alicante 11 June 2000
- The 36th CIESM Congress: Deep Sea Drilling Opportunities –Round Table, Mónaco 25 September 2001
- JOIDES Executive Committee, Granada 25-26 June 2002
- ODP Council meeting, Granada 27 June 2002
- iPPSP meeting, Barcelona, 11-13 June 2002
- Leg 194 Post-Cruise meeting, Granada, October 2002
- Leg 204 Post-Cruise Meeting, Barcelona, Spring 2004

Spanish hosting of ECOD related workshops and meeting

- The 2nd ESCO meeting, Madrid, October 1986
- The 23th ESCO meeting, Granada, September 1996
- EMCO meeting, Madrid, 12 May 2000
- The 35th ESCO meeting, Salamanca, 20-21 September 2002

Spanish hosting of ECORD related workshops and meeting

- The 2nd JEODI meeting, Barcelona, 7 January 2001
- ECORD Interim Council Meeting (EiC), Barcelona, 6 January 2001

Sweden

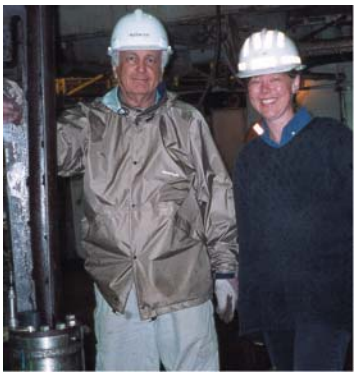
ODP Highlights from a Swedish perspective

Swedish activity in scientific ocean drilling has by tradition primarily been focused on paleoceanography and paleoclimatology. Quite a few petrologists and rock mechanic specialists have also been active in ODP, as well as organic/inorganic geochemists. During Phase III of ODP a growing interest and activity has also come from the Deep Biosphere and Geomicrobiology community. Shipboard scientist participation has mainly been provided by the Department of Geology and Geochemistry, Stockholm University, which has resulted in a very active and productive group. The remaining contribution of shipboard participation has been provided by the other Swedish universities with earth sciences departments: Göteborg University, Lund University, Luleå University of Technology, Uppsala University and Royal University of Technology. In total, Sweden has provided 30 scientists to shipboard participation on ODP Legs, of which one was a co-chief scientist. In addition, much shore based work on ODP material has been carried out by scientists at the Department of Marine Geology, Göteborg University and the Department of Earth Sciences, Uppsala University. Research from this participation has resulted in, at least, 180 papers in peer-reviewed journals and 12 Swedish PhD degrees.

Swedish scientists have represented ECOD on a number of scientific and management ODP committees, and they have also been active proponents and co-proponents of drilling proposals. Currently, the Swedish scientists Jan Backman, Nils Holm and Heiko Pälike are involved in four active ODP proposals, which will be forwarded to IODP. An important one is the proposal 'Palaeoceanographic and Tectonic Evolution of Arctic Ocean' (Proposal 533-Full 2/Add), with Jan Backman as the lead proponent. Not only has the proposal being ranked as No. 1 by SCICOM for three subsequent years, it also has resulted in the initiation of the Arctic Program Planning Group and the Arctic Drilling Detailed Planning Group (DPG). One of the mandates of the DPG was to estimate costs for an Arctic drilling leg and whether it could be carried out during ODP Phase III or should be postponed to IODP.

The Swedish ODP Committee has been chaired by three scientists: Kurt Boström (1986-1989), Jan Backman (1989-1995), and Nils Holm (1995-2003), who made important contributions to the Swedish ODP community and also represented Sweden in ESCO. Sweden had the opportunity to host the ESCO Secretariat, which was based at the Department of Geology and Geochemistry, Stockholm University, from 1998 till 2001 with Nils Holm as Chair and Maria Ask as Science Coordinator. During this period, the work of promoting the future IODP was being ramped up, with the COMPLEX and APLACON conferences, and the first meetings of the All-European JEODI Consortium were being held during this period.

In summary, Swedish researchers have benefited much from the Swedish ODP membership. Results from shipboard and shorebased participation have been reported in peer-reviewed journals and PhD theses. By being full members of this international program, Swedish researchers have participated in most of ODP's planning committees, as well as been engaged in drilling proposals. For the individual scientist, the participation in ODP has lead to international collaborations and an expanded network.



View of Selwyn Sacks (co-chief) and Maria Ask from when the strainmeter, which was part of the borehole observatory in Site 1150, Leg 186 (Japan Trench), was mounted on the moon pool of the *JOIDES Resolution*.

Senior Lecturer Maria V.S. Ask

Senior Lecturer Maria V.S. Ask, Luleå University of Technology: "My career has benefited greatly from my ODP involvement. I earned my PhD in Engineering Geology at the Royal Institute of Technology in Stockholm, Sweden. The major part of my thesis is based on deformation experiments made on whole-round cores from ODP Legs 159 and 173, and on logging data from deep ODP boreholes in the North Atlantic Ocean. I participated as physical properties specialist on Leg 159 and as shore based scientist on Leg 173.

My involvement in ODP started already during my final year as undergraduate student at Luleå University of Technology in Northern Sweden, when I sailed as a physical properties specialist on Leg 134. The open ODP culture, together with the contact with other shipboard scientists on Leg 134, resulted in studies in France and subsequently a DEA degree in geodynamics from the University of Nice-Sophia Antipolis, as well as a summer internship at the University of Miami, Florida.

I got the position as science coordinator when the ESCO Secretariat moved to Stockholm in 1998. This position gave me unique insights about ODP and the European Science Foundation (ESF) Consortium for Ocean Drilling (ECOD), and it also put me in contact with many of the active ODP researchers within ECOD and the ODP structure. I was also invited to sail as physical properties specialist and JOIDES Logging scientist on Leg 186 during this time. Prior to the leg, I received training in logging analyses by the ODP logging operator.

My shipboard participation has allowed me, a scientist in training from a university with a small earth science department, to work with new and exiting data. In addition, I have greatly expanded my international network through ODP. I have started collaboration with scientists on the three legs I have sailed on, and I have also commenced long-lasting cooperation with other ODP scientists within my field of research.

In 2002, my ODP experience helped me to get a faculty position as senior lecturer at Luleå University of Technology, the center of experimental soil and rock mechanics in Sweden. I am currently involved in upgrading our rock mechanics laboratory, and am looking forward to continue rock mechanic research and international collaborations in the upcoming Integrated Ocean Drilling Program".

Swedish Shipboard Scientists Legs 101 - 210

108	Jan Backman	Paleontologist (nannofossiIs)
115	Jan Backman	Co-Chief Scientist
117	Otto Hermelin	Paleontologist (foraminifers)
118	Gunilla Gard	Paleontologist
126	Peter Torssander	Igneous Petrologist
130	Jan Backman	Paleontologist (nannofossils)
131	Gunnar Olafsson	Paleontologist (nannofossils)
134	Maria Ask	Physical Properties Specialist
141	Per Bodén (diatoms)	Paleontologist
142	Kurt Boström	Geochemist

150	Per-Gunnar Alm	Logging Specialist
151	Reed Scherer	Paleontologist
154	Jan Backman	Paleontologist (nannofossils)/ Stratigraphic Correlator
157	Sten Lindblom	Organic Geochemist
158	Nils Holm	Inorganic Geochemist
159	Maria Ask	Physical Properties Specialist, JOIDES Logging Scientist
159T	Sten Lindblom	Geochemist
167	Per Bodén	Physical Properties Specialist
168	Eva Andersson	Organic Geochemist
171B	Joen Widmark	Paleontologist (foraminifers)
175	Otto Hermelin	Paleontologist (foraminifers)
178	Charlotte Sjunneskog	Organic Geochemist
184	Eve Arnold	Sedimentologist
185	Shelley Haveman	Microbiologist
186	Maria Ask	Physical Properties Specialist
197	Sten Lindblom	Sedimentologist
198	Susanne Gylesjö	Sedimentologist
199	Jan Backman	Paleontologist (nannofossils)
201	Nils Holm	Organic Geochemist
207	Jorijntje Henderiks	Sedimentologist
210	Anna Engström	Petrologist

Swedish post-cruise scientists

119 Schmitz
151 Andreasson, Morad, Schmitz
173 Ask
190 Ask

Swedish participation in the ODP Planning Structure

1986 - 1988

- K. Boström, (D), (LITHP) Lithosphere Panel
- J. Backman, (A) Indian Ocean Regional Panel
- K. Boström, (D) ESCO
- M. Ottosson, (D) EMCO

1989 - 1992

- J. Backman, (A) (PCOM) Planning Committee
- J. Backman, (D) ESCO
- K. Boström, (A) (LITHP) Lithosphere Panel
- D. Hedberg, replaced by U. Hålenius (A) (IHP) Information Handling Panel
- M. Ottosson, (D) ODP Council
- O. Stephansson, (D) (DMP) Downhole Measurements Panel

1993 - 1996

- J. Backman, (D) OHP Ocean History Panel
- J. Backman, (A) EXCOM Executive Committee
- J. Backman, (D) ESCO
- J. Backman, (member) ODP International Review Committee
- J. Backman, (member) ODP Paleo Database Subgroup
- B. Brandt, (D) ODP Council
- B. Malmgren, (D) (IHP) Information Handling Panel
- L.B. Pedersen, (D) (DMP) Downhole Measurement Panel
- P. Torssander, (A) (LITHP) Lithosphere Panel

1997 - 2000

- J. Backman (D) (PPG) Artctic's Role in Global Change Program Planning Group
- N. Holm (D) ESCO
- N. Holm (member) (PUBCOM) JOI Publications Subcommittee
- N. Holm (D) (SCICOM) Science Committee
- K. Pedersen (D) (PPG) Deep Biosphere Program Planning Group
- K. Pedersen (member) (BUGSCOM) JOI Deep Biosphere Subcommittee

2001 - 2003

- E. Arnold (A) (SciMP) Scientific Measurement Panel
- J. Backman (Chair) (DPG) Arctic Detailed Planning Group
- N. Holm (D) ESCO
- N. Holm (D) (SCICOM) Science Committee
- A. Karlqvist (D) (DPG) Arctic Detailed Planning Group
- Mary von Knorring (D) (EXCOM) Executive Committee

Past and present Swedish ODP Proposals

- 069 Stephansson Rock Stress measurements in the Southern Part of the Norwegian Sea
- 389 Malmgren Cretaceous N-S Traverse in the Western South Atlantic
- ††533-Full3 Backman Arctic - Lomonosov Ridge
- 626-Full Pälike Pacific Equatorial Age Transect

Swedish PhD projects based on ODP related material

- Al-Hanbali, H.S., "The geochemistry of two selected areas of the deep sea: the TAG Hydrothermal Mound Mid-Atlantic Ridge and the Lomonosov Ridge, Central Arctic Ocean", Stockholm University, 2000.
- Andersson C., "Micropaleontology and Sedimentology of Sites 804 and 806, Ontong Java Plateau, Western Equatorial Pacific", Stockholm University, 1995.
- Andersson, E., "Hydrothermal alteration of organic matter at spreading centers", Stockholm University, 1998.
- Ask, M.V.S., "In-situ and laboratory stress investigations using borehole data from the North Atlantic ocean", Royal Institute of Technology, 1998.
- Bodén P., "Biostratigraphic Implications of Neogene Diatom Abundances in the Norwegian Sea, the North Atlantic and the Western North Pacific", Stockholm University, 1992.
- Bornmalm L., "Late Neogene Benthic Foraminifera from the Caribbean Sea and Eastem Equatorial Pacific Ocean", Göteborg University, 1992.
- Charisi, S., "Chemical Palaeoceanographic Studies of the Eastern Mediterranean-Middle East Regions in the early Paleogene and Late Quaternary", Göteborg University, 1999.
- Gard, G., "Late Quaternary calcareous nannofossil biochronology and paleoceanography of Arctic and Subarctic areas", Stockholm University, 1988.
- Henriksson A., "Late Cretaceous Calcareous Nannoplankton and the Extinctions at the Cretaceous-Tertiary Boundary", Uppsala University, 1994
- Kucera, M., "Quantitative Studies of Morphological Evolution and Biogeographic Patterns in Cretaceous and Tertiary Foraminifera", Göteborg University, 1998.
- Naidu P.D., "High-Resolution Studies of Asian Quaternary Monsoon Climate and Carbonate Records from the Equatorial Indian Ocean", Göteborg University, 1995.
- Némethy S., "Molecular Paleontological Studies of Shelled Organisms and Mammal Bones", Göteborg University, 1995.
- Olafsson G., "Late Oligocene through Late Miocene Calcareous Nannofossil Biostratigraphy and Biochronology", Stockholm University, 1991.
- Sanfilippo, A., "Stratigraphy and evolution of tropical Cenozoic radiolaria", Stockholm University, 1987.
- Schmitz, B., "Palaeoceanographic implications of major and trace element distributions in fossil, marine sediments", Stockholm University, 1988.
- Sjunneskog, C., "Diatom and sedimentological investigations on West Antarctic shelf sediment". , Uppsala University, 2002.
- Thompson E., "Paleocene Chemical Paleoceanography: Global Paleoproductivity and Regional (North Sea) Paleoclimate", Göteborg University, 2000.

Swedish participation in ECOD related workshops and meetings

- 1st ECOD Workshop in Gwatt, Switzerland, March 1987: Participation Backman, Boström, Holm, Malmgren
- 2nd ECOD Workshop in Helsinki, Finland, May 1988: Participation Backman, Boström, Holm, Malmgren
- 3rd ECOD Workshop in Terrasini, Italy, May 1990: Participation Boström, Hermelin
- 4th ECOD Workshop in Rungstedgaard, Denmark, May 1992: Participation Aldahan, Backman, Boström, Hermelin, Holm, Ingvald, Lindblom

- 5th ECOD Workshop in Davos, Switzerland, September 1994: Participation Backman, Hermelin
- 1st Euro-ODP Forum in Oldenburg, Germany, February 1996: Participation Backman
- 6th ECOD Workshop in Sundvollen, Norway, May 1997: Participation Al-Hanbali, Andersson (E), Ask, Backman, Bodén, Holm, Lindblom
- 2nd Euro-ODP Forum in Edinburgh, Scotland, September 1998: Participation Ask, Holm (co-chair)
- COMPLEX Meeting in Vancouver, Canada, May 1999: Participation Ask, Backman, Holm, Scherer
- 7th ECOD Workshop in Amsterdam, Netherlands, September-October 1999: Participation Ask, Holm
- 3rd Euro-ODP Forum in La Grande Motte, France, April 2000: Participation Ask, Backman, Ekman, Holm, Pedersen, Sjunneskog, von Knorring
- 4th Euro-ODP Forum in Tromsø, Norway, April 2002: Participation Backman, Holm, Lindblom, von Knorring

Swedish hosting and participation in IODP related workshops and meetings

- 1st JEODI Workshop on 'European Future Ocean Drilling' in Strasbourg, France, January 2000. Participation Backman, Holm (co-chair), von Knorring
- Open JEODI Meeting in La Grande Motte, France, April 2000: Participation Ask, Backman, Holm (co-chair), von Knorring
- JEODI/ESCOD Steering Group Meeting in Nancy, France, September 2000: Participation Holm
- JEODI/ESCOD Steering Group Meeting in Hannover, Germany, November 2000: Participation Holm
- 2nd JEODI Workshop on 'Europe as the Third Leg of IODP' in Brussels, Belgium, January, 2001: Participation Backman, Holm, von Knorring
- JEODI/ESCOD Steering Group Meeting in Zurich, Switzerland, March, 2001: Participation: Holm, von Knorring
- APLACON Meeting in Lisbon, Portugal, May, 2001: Participation Backman, Holm (co-chair), von Knorring, Skiöld
- JEODI/ESCOD Steering Group Meeting in Paris, France, September, 2001: Participation Backman, Holm
- JEODI Meeting in Barcelona, Spain, January, 2002: Participation Holm
- JEODI Meeting in Gent, Belgium, August, 2002: Participation Backman, Holm
- JEODI Workshop on 'Arctic Drilling' in Copenhagen, Denmark, January, 2003: Participation Backman, Karlqvist

Swedish hosting and participation in EAG / ECORD (EiC) related workshops and meetings

- EAG Meeting in Bonn, Germany November 2001: von Knorring
- EAG Meeting in Barcelona, Spain January 2002: von Knorring, Holm
- EiC Meeting in London, UK April 2002: von Knorring
- EiC ECORD Meeting in Stockholm, Sweden June 2002: Host: von Knorring, participation Holm
- EiC Meeting in Salamanca, Spain September 2002: von Knorring
- EiC Meeting in Copenhagen, Denmark November 2002: von Knorring
- EiC Meeting in Villefranche, France January 2003: von Knorring
- EiC Meeting in Dublin, Ireland April 2003: von Knorring, Holm, Backman

Swedish hosting of other workshops and meetings

- Conference and 50th Anniversary of the Albatross Expedition in Stockholm and Göteborg, Sweden August 1997: Organiser Backman, Boström
- NorFA Research Course on 'Gas Hydrates' in Stockholm October-November 1999: Organisers Ask, Holm

Switzerland

ODP Highlights from a Swiss perspective

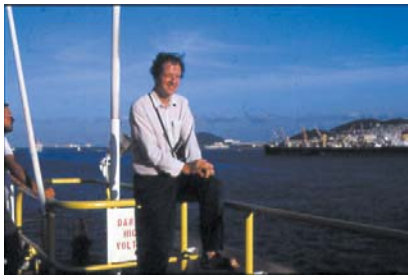
In October 1986, Switzerland, together with a number of small European nations, joined the European Consortium for Ocean Drilling (ECOD) to comprise a full member of the Ocean Drilling Program (ODP). The Swiss financial contribution to the ECOD membership has been approximately 10% of a full membership unit. For this contribution, Switzerland has been able to sail 24 scientists during the length of ODP. The 24 shipboard scientists represent 22 individual researchers from all of the Earth Science Departments of the 7 major Swiss universities and include two Co-chief Scientists (Judith McKenzie, ODP Leg 133 and Flavio Anselmetti, ODP Leg 194). In addition, Switzerland was able to sail two Student Trainees onboard the *JOIDES Resolution* (Miriam Andres, ODP Leg 166 and Michael Strasser, ODP Leg 205).

Ultimately, the most important feature of ODP is that it promotes international collaborative research. Participation on an ODP leg is a unique, unforgettable experience, particularly for a young scientist, to spend two months at sea with up to 30 other scientists intensely working on a single research program. It is noteworthy that many of the Swiss participants in the earlier ODP cruises have now graduated from young researcher positions to professorial positions in universities within Switzerland and abroad. In more recent years, it has been possible for Switzerland to sail 4 doctoral students (Miriam Andres, Federica Tamburini, Caroline Pellaton, and Patrick Meister) on the *JOIDES Resolution*. Material recovered during the drilling has formed a significant part of the doctoral theses of these individuals, but, more importantly, valuable research experience was gained during the doctoral studies. The *JOIDES Resolution* is a floating laboratory with state-of-the-art facilities to study the recovered cores. It is probably no coincidence that Miriam Andres, the first Swiss Student Trainee, returned to sail as a shipboard scientist and write a doctoral thesis on material collected during an ocean drilling campaign. Additionally, material collected during ODP legs has been or is being used in the doctoral theses of at least 23 Swiss doctoral candidates. See list below.

Swiss activities in ODP represent participation in a wide variety of research programs dealing with scientific themes on a global scale. International ocean drilling is not limited to national waters but views the entire ocean seafloor as a natural laboratory to study designated scientific problems. Drilling programs are designed for the appropriate study area for a focused research theme and are extensively peer-reviewed prior to drilling. Because Switzerland is a member of ODP through the Swiss National Science Foundation's contribution, Swiss scientists have been able to participate in the planning activities of research programs as active members of the ocean drilling community. They have been invited to represent ECOD on a number of planning committees. Additionally, Judith McKenzie served as the chair of the ESCO and, as a consequence, the ESCO Secretariat (Science Coordinator, Silvia Spezzaferri) was hosted in Switzerland at the ETH-Zürich for 3 years during 1995-1998. Finally, the ODP Micropaleontological Reference Center located in the Naturhistorisches Museum Basel, supervised by Michael Knappertsbusch, is an important Swiss contribution to the ocean drilling scientific community.

In summary, Swiss scientists have sailed onboard the *JOIDES Resolution* in many

scientific capacities and have participated in drilling legs in all of the major oceans around the globe. During these cruises, Swiss scientists have had the opportunity to be part of the largest and most successful academic earth science research program. Additionally, Swiss scientists have been actively involved in ODP scientific planning. Thus, Swiss participation in ODP has been instrumental in expanding the horizons of many young Swiss scientists, as outlined in the following three profiles. These personal statements document the success of the ODP within the Swiss earth science community and highlight the various Swiss contributions to ODP.



Dr. Karl Föllmi onboard the *JOIDES Resolution* at the outset of ODP Leg 128, as the ship passed through the Straits of Tsushima, between Korea and Japan, heading for the Japanese Sea.

Prof. Karl B. Föllmi, Université de Neuchâtel, Switzerland: "In 1989, as a young and relatively inexperienced postdoctoral scientist, I had the occasion to sail on ODP Leg 128 and explore the Japan Sea. This cruise turned out to be a marvellous experience, in spite of the more-than-frequent "core-on-deck" calls and the nauseous feelings associated with looking through a microscope during a typhoon… I had the unique opportunity to become part of a highly motivated group of scientists and to work on sedimentological, palaeoceanographic, and paleoclimatologic aspects associated with the evolution of this particular back-arc basin. Participating in this cruise helped me to considerably broaden my experience, to create long-lasting contacts, and above all to appreciate the crucial role DSDP and ODP play in promoting Earth Sciences as a whole. After the cruise, I stayed online with ODP and used their unique and extensive data sets for my research, obtained additional sample material, attended ODP-related congresses, and encouraged students to participate in ODP, thereby willingly taking into account their possible exposure to infectious core-barrel sheet aversions, collateral damage linked to equator crossing, typhoon shakeups, and other great adventures".

Dr. Flavio Anselmetti standing on the top deck of the *JOIDES Resolution* during drilling operations to recover carbonate sediments on the Marion Plateau, ODP Leg 194, Northeast Australian Margin. (Photo by G. Eberli)

Prof. Flavio Anselmetti, ETH-Zürich, Switzerland: "My two participations on ODP Legs strongly influenced and triggered my future scientific activities. My first participation as a regular shipboard scientist on Leg 166, just after completion of my PhD thesis, exposed me to an ODP international scientific team and made me aware that only multidisciplinary approaches can solve major scientific questions. Sailing on ODP Leg 194, for which I was a co-proponent and was selected as a co-chief scientist, provided me with the outstanding opportunity to lead and guide an international team of over 20 scientists during a 2-month cruise. This was a unique experience from posing the scientific questions, to locating the ideal drilling areas, performing the site survey, passing all proposal evaluations and finally co-leading the drilling operations. My decision-making functions on this cruise incredibly broadened my horizons and increased my experience in handling various delicate situations. I am currently using all the marine geological/geophysical and operational experiences gained during my ODP participations to perform a research program focusing on lacustrine systems. A series of lake surveys

comprising coring and drilling campaigns could not have been successfully performed without the insights that I gained during my activities within the marine ocean drilling community".

Dr. Miriam Andres observing from the top of the drill derrick the passage of the *JOIDES Resolution* through the Panama Canal at the end of ODP Leg 166. In the background is one of the many canal locks transited on the way to Panama City. (Photo by D. McNeil)

Dr. Miriam Andres, Post-Doctoral Fellow, RSMAS, Miami, FL, USA: "During my undergraduate studies, I had the great opportunity to join ODP Leg 166 as a temporary marine technician. My duties included initial curation, cutting and splitting of the recovered coreliner, photography of freshly split core, assistance of sampling parties and storing cores. I was amazed to experience "science in the making". Leaving the drillship after a breathtaking crossing of the Panama Canal (see photo), I was determined to return as a scientist. In 1998, I had the opportunity to rejoin the JR and sail as a sedimentologist on ODP Leg 182. The recovered cool-water carbonates set the stage for my doctoral thesis at the ETH, which I completed in 2002. All through my thesis, I made extensive use of the ODP core repository, invaluable ODP webpage and free access to the online database. Sailing on board the JR as a temporary marine technician and then as a sedimentologist has been one of the most outstanding experiences of my life. I not only gained scientific experience during shipboard work and lively discussions, but also learned many technical skills, met interesting people and found new friends. Coming from a landlocked country, ODP has given me access to the vast ocean. I encourage other Swiss scientists to set out to sea and join the future IODP family".

Swiss Shipboard Scientists Legs 101 - 210

101	Gregor Eberli	Physical Properties Specialist
113	Barbara Mohr	Palynologist
114	Daniel W. Miiller	Sedimentologist
119	Hans R. Thierstein	Paleontologist (nannofossils)
120	Kerry Kelts	Sedimentologist
123	Peter O. Baumgartner	Paleontologist (radiolarians)
128	Karl B. Follmi	Sedimentologist
133	Judith A. McKenzie	Co-Chief Scientist
133	Daniel W. Miiller	Sedimentologist
143	Andre Strasser	Sedimentologist
147	Gretchen Früh-Green	Metamorphic Petrologist
155	Stephen J. Burns	Inorganic Geochemist
161	Stefano M. Bernasconi	Sedimentologist
165	Maria Mutti	Sedimentologist
166	Judith A. McKenzie	JOIDES Logging Scientist
173	Nikolaus Froitzheim	Structural Geologist
173	Gianreto Manatschal	Structural Geologist
182	Miriam Andres	Sedimentologist
184	Federica Tamburini	Sedimentologist
185	Annachiara Bartolini	Paleontologist (radiolaria)
189	Caroline C. Pellaton	Sedimentologist
194	Flavio S. Anselmetti	Co-chief scientist
194	Pascal F. Kindler	Sedimentologist
201	Patrick Meister	Sedimentologist

Swiss Shipboard Scientists who sailed from non-ECOD countries (Legs 101 - 210)

166	Flavio S. Anselmetti (USA)	Physical Properties Specialist
182	Ulrich G. Wortmann (D)	Inorganic Geochemist

Swiss participation in the ODP Planning Structure (1986 - 2003)

1986 - 1988

- K. Hsu, (D) (TECP) Tectonics Panel
- J. Saunders, (A) (IHP) Information Handling Panel

- R. Herb, (A) Southern Oceans Regional Panel
- H. Thierstein, (D) ESCO
- P. Fricker, (ODPC) ODP Council

1989 - 1992

- J. McKenzie, (D) (SGPP) Sedimetary and Geochemical Processes Panel
- J. Saunders, (D) (IHP) Information Handling Panel
- G. Eberli, (SLWG) Sealevel Working Group (1991)
- P. Fricker, (ODPC) ODP Council
- J. McKenzie (D) ESCO

1993 - 1996

- J. McKenzie (D) ESCO
- J. McKenzie (member) (PCOM) Planning Committee
- J.B. Weber (ODPC) ODP Council / (D) EMCO
- H. Weissert (A) ESCO
- H. Weissert (A) (OHP) Ocean History Panel
- G. Früh-Green (A) (SGPP) Sedimentary and Geological Processes Panel
- G. Früh-Green (A) ESCO
- M. Knappertsbusch (A) (IHP) Information Handling Panel

1997 - 2000

- J. McKenzie (D) ESCO
- J. McKenzie (D) SCICOM Science Committee
- J. McKenzie (A) OPCOM Operations Committee
- J. McKenzie (D) IPC Science Planning Working Group (SPWG)
- H. Weissert (A) ESCO
- H. Weissert (D) Climate & Tectonics Program Planning Group
- F. Anselmetti (D) (SSP) Site Survey Panel
- J.B. Weber (ODPC) ODP Council / (D) EMCO

2001 - 2003

- J. McKenzie (D) ESCO
- H. Weissert (D) (SSEPs) Science Steering Evaluation Panel (Earth's Environment)
- P. Burkhard (D) EMCO
- M. Kullin (A) EMCO

ODP Proposals with a Swiss scientist as lead proponent

- 433 Hsü A Proposal to Test a new Theory of Orogeny by Drilling the Eastern Mediterranean Sea, especially the area in the Vicinity of the Eratosthenes "Seamount"
- 510-Full3/Rev 1 Anselmetti ODP Drilling in the Coral Sea: Sealevel variation, fluid flow, and paleoceanography
- 512 Früh-Green, Oceanic Core Complex Formation: Deformation, Alteration, and Accessible Mantle Peridotite

Swiss PhD projects based on ODP related material

PhD Theses:

- Andres, Miriam S., "Late Quaternary paleoceanography of the Great Australian Bight: A Geochemical and Sedimentological Study of Cool-Water Carbonates, Site 1127, ODP Leg 182", PhD Thesis, ETH-Zürich, Nr. 14831, 2002.
- Bollmann, Jörg, "Biogeography and morphological variation of the genus Gephyrocapsa (Prymnesiophyceae) today and during its late Pleistocene dominance interval", PhD Thesis, ETH-Zürich, Nr. 11005, 1995.
- Boschi, Chiara, "Volatiles in submarine environments: Implications for carbon cycles and the subsurface biosphere", PhD Thesis, ETH-Zürich, in progress.
- Burla, S. "The response of the marine coastal system to perturbations of global carbon cycle. From the Atlantic to the coast of Portugal", PhD thesis, ETH-Z., in progress.
- Demurs, Laurent, "Mantle evolution and magmatism in an evolving ocean-continent transition: The Platta nappe, eastern Switzerland", PhD Thesis, ETH-Zürich, Nr. 14429, 2001.
- Diserens, Marc-Olivier, "Late Cretaceous radiolarian biochronology and paleoenvironmental analysis: Comparison of the Southern Alps, Central and North America", University of Lausanne, in progress.
- Hölker, Andreas, "Seismic structure and response of ocean-continent transition zones in

magma-poor rifted continental margins", PhD Thesis, ETH-Zürich, Nr.14455, 2001.

- Isern, Alexandra Regina, "Carbonate platform development off northeast Australia: The imporiance of palaeoceanographic and environmental change", PhD Thesis, ETH-Zürich, Nr. 10270, 1993.
- Jaccard, Sam, "The history of paleoproductivity and relative nutrient utilization in the subarctic Pacific Ocean during late Pliocene", PhD Thesis, ETH-Zürich, in progress.
- Jackett, Sarah-Jane, "Early Cenozoic radiolarian biochronology and paleoenvironmental analysis: Comparison of the Southern Alps, Central and North America", University of Lausanne, in progress.
- Knappertsbusch, Michael, "Geographic distribution of modern coccolithophorids in the Mediterranean Sea and morphological evolution of Calcidiscus leptoporus", PhD Thesis, ETH-Zürich, Nr. 9169, 1990.
- Lan, Hsin-Chi, "Late Quaternary paleoceanography of the Caribbean Sea", PhD Thesis, ETH-Zürich, in progress.
- Lini, Andrea, "Earlly Cretaceous carbon isotope stratigraphy of the Maiolica Formation, Southern Alps (Northern Italy and Southern Switzerland): Stratigraphic and paleoenvironmental significance", PhD Thesis, ETH-Zürich, Nr. 10492, 1994.
- Meckler, Nele, "Oceanic nitrogen cycling and climate", PhD Thesis, ETH-Zürich, in progress.
- Meister, Patrick, "Microbial deep-sea dolomit formation on the Peru Margin, ODP Leg 201", PhD Thesis, ETH-Zürich, in progress (expected 2003).
- Mort, Haydon, "The Cenomanian-Turonian bio-events: related climatic and weathering fluctuations", PhD Thesis, Université de Neuchâtel, in progress.
- Padden, M., "Late Jurassic Paleoceanography: evidence from stable isotopes and carbonate sedimentology", PhD thesis ETH zürich, Nr. 14094, 2001.
- Paul, Hilary A., "Application of novel stable isotope methods to reconstruct paleoenvironments: Compound-specific hydrogen isotopes and pore-water oxygen isotopes", PhD Thesis, ETH-Zürich, Nr. 14593, 2002.
- Plas, Alessio, "Petrologic and stable isotope geochemical investigation of ocean floor serpentinization", PhD Thesis, ETH-Zürich, Nr. 12261, 1997.
- Pellaton, Caroline, "Distribution of sedimentary organic matter with respect to palaeoenvironmental conditions: two case histories from the Miocene of the USA", PhD Thesis, Université de Genève, 2002.
- Ruchonnet, Cyril , "The Miocene climatic transition: the record from shallow-water carbonates (Australia and Sicily)", PhD Thesis, Université de Genève, in progress.
- Schmidt, Daniela N., "Size variability in planktic foraminifers", PhD Thesis, ETH-Zürich, Nr. 14578, 2002.
- Tamburini, Federica, "Phosphorus in marine sediments during the last 150,000 years: Exploring relationships between continental weathering, productivity and climate", PhD Thesis, Université de Neuchâtel, 2001.

Habilitationsschriften:

- Bernasconi, Stefano M., "The application of light stable isotopes to environmental sciences", Habilitationsschrift, ETH-Zürich, 2002.
- Haug, Gerald H., "Late Cenozoic paleoceanography and climate", Habilitationsschrift, ETH-Zürich, 2001.
- Spencer-Cervato, Cinzia, "The Cenozoic deep sea microfossil record: Explorations of the DSDP/ODP sample set using the Neptune database", Habilitationsschrift, ETH-Zürich, 1999.

Swiss hosting of ODP related workshops and meetings

- March 18-20, 1987. 1st ECOD Workship, Gwatt, Switzerland. "The Future of Ocean Drilling". It was organized along the themes as COSOD II and defined ECOD interests in the COSOD II framework.
- September 18-20, 1994. 5th ECOD Workshop, Davos, Switzerland. "Drilling Marginal Basins & Gateways". The past, present and future ODP drilling was discussed with a focus on the interests and contribution of ECOD scientists.

- August 18-23, 1997. SCICOM/OPCOM Meeting, Davos, Switzerland, hosted by J. A. McKenzie.
- September 28-30, 1997, International Conference on Neogene Mediterranean Paleoceanography, Erice, Sicily, Co-sponsered by ESCO Secretariat (Chair J.A. McKenzie) & Societa' Geological Italiana.
- February 23-25, 1999, Winter SSP Meeting, ETH, Zurich, Switzerland, hosted by F. Anselmetti
- November 4-6, 1999, Science Planning Working Group (SPWG) Meeting, ETH, Zurich, Switzerland, hosted by J.A. McKenzie, WG meeting to write the first draft of the IOPD Initial Science Plan 2003-2013.

Greece

Greek Shipboard Scientists Legs 101 - 210

137	Basil G. Christaras	Physical Properties Specialist

Greek participation in the ODP Planning Structure (1986 - 2003)

1986 - 1988

G. Vrellis, (A) TEDCOM

Turkey

Turkish Shipboard Scientists Legs 101 - 210

171A	Tuncay Taymaz	Physical Properties Specialist
172	Namik Çagatay	Inorganic Geochemist

Turkish participation in the ODP Planning Structure (1986 - 2003)

1986 - 1988

- A.M.C Sengor (A) Central and Eastern Pacific Regional Panel

Turkish requests for samples from the ODP curation database

- Samples requested from ODP by M.N. Çagatay
- Samples from Hole 1055B and for ‘clay-mineralogy’ study
- Samples from Holes 1054A, 1057A, 1060A, 1062A, 1063A for ‘the pore water and sediment diagenesis study

Annexe 2

ECOD Publications

Belgium publications (1986 – 2002)

1988

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