

**Intergovernmental Oceanographic Commission**  
*Reports of Meetings of Experts and Equivalent Bodies*



**Advisory Body of Experts  
on the Law of the Sea  
(IOC/ABE-LOS)**

**Sixth Meeting**  
Málaga, Spain  
3–7 April 2006

**UNESCO**



**Intergovernmental Oceanographic Commission**  
*Reports of Meetings of Experts and Equivalent Bodies*

**Advisory Body of Experts  
on the Law of the Sea  
(IOC/ABE-LOS)**

**Sixth Meeting**  
Málaga, Spain  
3–7 April 2006

**UNESCO 2006**

IOC/ABE-LOS VI/3  
Paris, May 2006  
Original: English

(SC-2006/WS/18)

## TABLE OF CONTENTS

	page
<b>1. OPENING AND WELCOMING ADDRESSES .....</b>	<b>1</b>
<b>2. ADMINISTRATIVE ARRANGEMENTS.....</b>	<b>2</b>
2.1 DESIGNATION OF THE RAPPORTEUR.....	2
2.2 ADOPTION OF THE AGENDA.....	2
2.3 DOCUMENTATION.....	2
<b>3. REPORTS OF INTERSESSIONAL ACTIVITIES.....</b>	<b>2</b>
3.1 CHAIRMAN'S REPORT ON IOC/ABE-LOS ACTIVITIES DURING THE INTERSESSIONAL PERIOD.....	2
3.2 PROGRESS REPORT BY THE SECRETARIAT.....	3
3.3 REPORTS BY THE I-GOOS CHAIRMAN AND THE ARGO TECHNICAL COORDINATOR.....	4
3.4 PROGRESS REPORT BY THE COORDINATOR OF THE IOC/ABE-LOS SUBGROUP ON THE IOC LEGAL FRAMEWORK FOR THE COLLECTION OF OCEANOGRAPHIC DATA WITHIN THE CONTEXT OF UNCLOS .....	5
3.5 EXCHANGE OF VIEWS ON EMERGING ISSUES .....	6
3.6 INFORMATION SESSIONS.....	7
<b>4. ADOPTION OF THE REPORT AND RECOMMENDATIONS .....</b>	<b>8</b>
<b>5. CLOSURE.....</b>	<b>8</b>

## ANNEXES

- I. AGENDA
- II. ADOPTED RECOMMENDATIONS
- III. DETAILED DISCUSSIONS ON DOCUMENT IOC/ABE-LOS VI/8
- IV. REPORT ON IOC/ABE-LOS ACTIVITIES DURING THE INTERSESSIONAL PERIOD
- V. WELCOME ADDRESS BY PROFESSOR MARIO RUIVO, VICE-CHAIRMAN OF THE INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION OF UNESCO
- VI. LIST OF DOCUMENTS
- VII. LIST OF PARTICIPANTS
- VIII. LIST OF ACRONYMS



## 1. OPENING AND WELCOMING ADDRESSES

Mr Elie Jarmache, Chairman of the IOC Advisory Body of Experts on the Law of the Sea (IOC/ABE-LOS) opened the Sixth Meeting of IOC/ABE-LOS at 16:45 on Monday 3 April 2006. He invited the authorities of the Central Government of Spain, the Regional Government (la Junta de Andalucía), the local Government of Málaga (Diputación and Town Hall) and the IOC Vice-Chairman, on behalf of the IOC Executive Secretary/Assistant Director-General of UNESCO to make their welcoming addresses and statements.

The Mayor, Francisco de la Torre, welcomed the Delegations to the city of Málaga, renowned around the world by its hospitality and highlighted the significance of hosting this event for a city with such longstanding maritime history. The Vice-President of the “Diputación Provincial of Malaga”, Marisa Bustinduy, expressed her views on the extreme political sensitivity of the issues to be discussed during the sessions to come and their direct influence in the protection of life, property and exploitation of resources. In turn, Ms Concepción Escobar, Head of the International Juridical Division at the Ministry of Foreign Affairs, pointed out the importance of IOC/ABE-LOS as well as the need to increase the knowledge in order to regulate the activities, being collection of oceanographic data and marine scientific research of paramount importance. She further expressed the fact that all human activities, including the collection of data and the marine scientific research should be carried out taking into account customary Law of the Sea and UNCLOS, respecting the rights and obligations of the States. Concepción Soto, the Director of the Spanish Institute of Oceanography mentioned the new requirements resulting from the recent technologies and the contribution of oceanography to the sustainable development and the climate change research.

Prof. Mario Ruivo, Vice-chairman of IOC, addressed the meeting on behalf of the Executive Secretary, Patricio Bernal, who could not attend the meeting for reasons of health. He highlighted the increasing importance of the Advisory Body of Experts on the Law of the Sea for the Intergovernmental Oceanographic Commission and the international community as the problems related to the oceans are coming back as priority on the agendas of Member States (complete text available at [Annex V](#))

The “Vice-consejero de Medio Ambiente de la Junta de Andalucía”, Antonio Llaguno, reiterated the close relationship of Andalusia with the marine environment and its interest for the international cooperation, as the protection of environment is a whole. He remarked the interest of Andalusia to continue collaborating with IOC Programmes, citing as an example the contribution made to the publication of the CGTMT.

Bernardino León Gross, Secretario de Estado, brought to attention the threats and impacts on the oceans of human activities, exploitation of resources and pollution. This being said, he underlined the great work carried out by the group and urged for results at the end of the week. He underlined the fact that Spain firmly believes in multilateralism and the respect of international legality.

The IOC/ABE-LOS Chairman, Mr Elie Jarmache, thanked the hosts for the support and arrangements for the meeting of this group that counts with a real universal representation and a truly multidisciplinary constitution.

## **2. ADMINISTRATIVE ARRANGEMENTS**

### **2.1 DESIGNATION OF THE RAPPORTEUR**

The Advisory Body was invited to designate a Rapporteur for the meeting in accordance with IOC Rules of Procedure n°25. The Delegation of Argentina proposed Ariel Troisi as Rapporteur. **The Advisory Body accepted** the offer.

### **2.2 ADOPTION OF THE AGENDA**

**The Advisory Body adopted** the agenda and timetable of the meeting, on the basis of the Provisional Agenda (Doc. IOC/ABE-LOS VI/1 prov.) and Timetable (Doc. IOC/ABE-LOS VI/1 Add. prov.) adding a new agenda item 3.3. (reports of the Chairperson of I-GOOS and the Technical Co-ordinator of the Argo Information Centre).

### **2.3 DOCUMENTATION**

The Technical Secretary introduced the list of documents (Doc. IOC/ABE-LOS VI/4 prov.) for the meeting.

## **3. REPORTS OF INTERSESSIONAL ACTIVITIES**

### **3.1 CHAIRMAN'S REPORT ON IOC/ABE-LOS ACTIVITIES DURING THE INTERSESSIONAL PERIOD**

Mr Elie Jarmache, Chairman of IOC/ABE-LOS, summarised Doc. IOC/ABE-LOS VI/6 ([Annex IV](#) to this report) and invited the participants to comment on it. He emphasised the good reception by the IOC at the 23rd IOC Assembly of the Procedure for the application of Article 247 of UNCLOS. He also brought attention to the issue of marine biodiversity beyond the limits of national jurisdiction and the discussions being held at the UN, underlining that the IOC Governing Bodies might eventually have to consider giving a mandate to the Group to address the subject.

As a preliminary reaction on the Chairman's report, one Delegation pointed out the fact that IOC/ABE-LOS should remain faithful to the mandate of IOC Resolution XIX-19 providing advice to IOC, as competent international organisation, to carry out its activities in the framework of Parts XIII and XIV of UNCLOS. It further expressed that the UN was the proper forum to discuss the marine biodiversity issues under part XI and, once the political debate is solved, there will be additional tasks for IOC/ABE-LOS within Parts XIII and XIV. Several Delegations shared this opinion.

In this context, some Delegations further suggested that IOC/ABE-LOS should remain ready to discuss the issue once the UN General Assembly, as the appropriate body, adopts decisions on this matter.

Several Delegations agreed on the importance and convenience of counting with a Secretariat report reflecting the intersessional activities and developments resulting in a useful tool to put the work of the group into perspective.

### 3.2 PROGRESS REPORT BY THE SECRETARIAT

The IOC Technical Secretary, Ms Aurora Mateos, introduced this item as an Addendum to the report of the Chairman. She informed the Advisory Body on the intersessional activities which has been undertaken in accordance with the IOC/ABE-LOS V Recommendations and the IOC Assembly Resolutions XXIII-8 and 9, summed up in document IOC/ABE-LOS VI/7. She summarized the results achieved and the work in progress by the IOC Secretariat in relation to the above mandates and the interactions with the IOC Programmes.

**The Advisory Body commended** the Secretariat on the work done during the intersessional period, including the provision in due time of the documents in both working languages. **The Advisory Body welcomed** the initiative of providing a detailed report on the intersessional activities which aims at following-up the work of the Secretariat.

The dedicated website was considered an important development which needed further support in order to ensure its dynamic and continuous update. The website should be progressive and user-friendly. Some Delegations proposed the implementation of password or access restriction mechanisms to enable the use of the site to post information and documents of restricted distribution. The Secretariat informed that this mechanism was already created in the web and it was in process to make it functional for Experts.

One Delegation proposed the addition of a Newsletter to the website, which could help Experts to provide with selected information on Transfer of Marine Technology and Marine Scientific Research. Another Delegation proposed to post on the web information on the practices of Member States, such as statistics on the requests and processing of authorizations for Marine Scientific Research. Another Delegation doubted the usefulness of such information due to a probable lack of comprehensive coverage, geographically as well as substantially.

One Delegation underlined the importance of the report by the Secretariat and proposed to focus it in the future on the intersessional activities with regard to the work of the Advisory Body.

Several Delegations agreed that there must be close cooperation and interaction with UN/OLA/DOALOS with regards to the National Legislation database so as to avoid duplication. The IOC Secretariat called for more collaboration in receiving specialized National Legislations on Marine Scientific Research and Transfer of Marine Technology in view of creating this new section on the web.

One Delegation pointed out the need for promoting the Roster of Experts by the IOC Secretariat. Another Delegation brought the attention to the need of a wider spectrum of languages in point 7 of the "Orientation Guide" to give advice to the requesting Member State. One Delegation stressed the importance of discussing in depth the "Orientation Guide", particularly the application Procedure. The Chairperson remarked that the Guide is still a draft and invited the Delegations to extend comments. Various Delegations suggested the need for the "Orientation Guide" to clarify the procedure of selection of experts to be included in the Roster of Experts.

One Delegation was of the opinion that the reference to the Argo project and article 247 was not correct as such project did not qualify for the implementation of the "Procedure for the application of Article 247 of UNCLOS by the IOC". This view was not shared by other Delegation who considered that Argo did perfectly qualify for this Procedure on Article 247 of UNCLOS.

### 3.3 REPORTS BY THE I-GOOS CHAIRMAN AND THE ARGO TECHNICAL COORDINATOR

The Chairman of I-GOOS, François Gérard, introduced his report on GOOS and the law of the sea as part of the mandate received from the IOC Assembly through Resolution XXIII-8. He presented the structure of GOOS and I-GOOS within IOC, providing description of the scope of GSSC, GRAs and JCOMM. He pointed out that monitoring activities demanded long-term commitments, sustainability, data timely available though not necessarily all in real-time, and a clear legal framework. He presented the GOOS action for the period 2005–2009 and gave information on the implementation of Argo, surface drifter programme and XBT observations.

One Delegation considered that there were some communication problems between scientists and jurists and that this closer interaction between I-GOOS and IOC/ABE-LOS was a solution that should be continued.

Several Delegations concluded that there were difficulties in reaching an agreed definition of the term “Operational”. One Delegation further expressed that the Argo project was regulated by UNCLOS as any other collection of data in the sea.

The continuity of Argo and the ability to accommodate new sensors in the floats was raised by one Delegation.

Another Delegation considered that GOOS activities were closely intertwined with science and research and that the coastal zone was a very important interface. Additionally, he considered the IOC-WMO Joint Technical Commission for Oceanography and Marine Meteorology (JCOMM) fundamental to cover ocean and atmosphere requirements.

Responding to a question, Dr Gérard said that operational programmes were meant to benefit society and not research, though he recognised that research also benefited society. Several Delegations were of the opinion that there was no clear division between marine scientific research and operational oceanography.

One Delegation noted the importance and unique character of Argo data for operational hurricane track forecasting.

The Delegations agreed in the fact that no one questioned the free and open availability of the data. One Delegation further expressed that once the data is collected according to appropriate legal procedures under UNCLOS, there are no restrictions to the data flow.

One Delegation stated that it is fundamental to know in all cases who is the responsible operator of each float, citing the example of the floats operating in the European Union

The Argo project Technical Coordinator, Mr Mathieu Belbeoch, introduced the information document Report on the “Argo project” in which he presented its current status together with the background and activities of the Argo Information Centre.

Some Delegations expressed the need to continue the awareness and capacity building efforts and showed concern about the limitations the lack of proper funding could pose on current or future participation in the project.

Some Delegations mentioned that although the report was an information document, it touched issues that almost turned it into a working document.

One Delegation expressed the support to this modality of marine scientific research as well as to the valuable work of the Argo Information Centre (AIC) as clearinghouse. Nevertheless it disagreed with the affirmation that the AIC was created responding to IOC Resolution XX-6 mandate. It added that the mentioned resolution clearly states that the project must be fully consistent with UNCLOS which, among other factors, requires a bilateral relationship between the Researcher State or institution and the coastal State. He further stated the disagreement with the information document from its point 2.3 onwards as it proposes mechanisms contrary to those established in UNCLOS, not being any other notification procedure for marine scientific research besides the one established in Part XIII of UNCLOS.

Another Delegation expressed his full agreement with this position and stated that any authorization mechanism different from the one regulated in Part XIII was unacceptable and called upon the Argo Technical Coordinator for clarity to avoid confusions.

The Argo Technical Coordinator pointed out that the notification of deployments directly in EEZ, since the deployments are done by the Coastal Member State or with the legal consent of the Coastal State, is done for transparency purposes and not as a substitute for legal clearance mechanisms. One Delegation did not agree with the statement.

#### 3.4 PROGRESS REPORT BY THE COORDINATOR OF THE IOC/ABE-LOS SUBGROUP ON THE IOC LEGAL FRAMEWORK FOR THE COLLECTION OF OCEANOGRAPHIC DATA WITHIN THE CONTEXT OF UNCLOS

Professor Kari Hakapää, Coordinator of the sub-group on the IOC Legal Framework for the Collection of Oceanographic Data within the Context of UNCLOS, introduced this item. He summarized the process of drafting the first and second draft and informed on the comments received on the First Draft from 12 Member States, and UN/OLA/DOALOS. He also noted that two more sets of comments were submitted later in the intersessional period. He commented the interaction with the IOC Secretariat, UN/OLA/DOALOS and I-GOOS in the intersessional period. On the substance, he considered various options and decided to include in the first draft a proposal of notification arrangements, where the IOC Secretariat would be involved in, which would take use of the databases available to IOC membership, and which would take into account the special nature of data collection to the benefit of the international community as a whole. He pointed out the difficult challenges of this subject.

The Chairman thanked the excellent work done by Professor Kari Hakapää during the intersessional period in such complex matter, in which he made remarkable advances.

One Delegation stressed the complexity of the various issues addressed in the Draft Guidelines. He suggested that the best way to achieve results would be to divide the project in various phases limited to specific methods of data collection, and limited to projects under the auspices of IOC. He proposed to start drafting guidelines limited to the deployment of profiling floats in the framework of the Argo project.

Several Delegations stated that the distinction between marine scientific research and data collection was in part artificial since these activities were closely interrelated. Some Delegations further recalled that UNCLOS chose not to distinguish fundamental from applied research.

It was pointed out that it is necessary to clarify the nature of collection of Oceanographic Data and the responsibility of the operator to determine the legal regime applicable.

Some representatives commented that their National Legislations consider the Collection of Oceanographic Data under Part XIII of UNCLOS.

One Delegation stated that the Third UN Conference on the Law of the Sea decided that the collection of marine meteorological data is not marine scientific research regulated by Part XIII of UNCLOS, according to the Oral Report of the Chairman of the Third Committee to the Third Committee at its 46th meeting in 1980. He remarked that the routine collection of ocean observations is clearly analogous to the collection of marine meteorological data that are distributed openly and for free and for purposes for common good and the protection of natural resources, human life and property. One Delegation reacted by stating that activities related to operational oceanography can fall within Article 258 of UNCLOS.

Underlining the fact that the subgroup was dealing with draft guidelines, several Delegations called upon the search of pragmatic solutions to address the issues under discussion within the framework of UNCLOS and taking into account the Argo experience. One Delegation stated his understanding that the guidelines will not be a legal binding text and thus it will not change or replace the rights and obligations under the UNCLOS. This remark had no objections.

One Delegation called for solutions promoting international cooperation on marine scientific research as well as developing ways and means to facilitate it within the spirit of art. 242 and 255 of UNCLOS. One Delegation added that the I-GOOS and Argo presentations reaffirmed the need to improve the current procedures, based on the legal framework reflected in UNCLOS. It was also remarked that it is not a task of the Advisory Body to interpret or revise UNCLOS.

One Delegation posed the question on whether the existing system for gathering and distributing the data was appropriate and urged the participants to help identify unfulfilled needs.

One Delegation reminded that the group was working on the data collection issue due to the insistent request of the operational oceanography community, which was reflected on the mandate of IOC Resolution XXIII-8.

The general discussion was followed by a paragraph by paragraph treatment of the document IOC/ABE-LOS VI/8 ([Annex III](#)).

### 3.5 EXCHANGE OF VIEWS ON EMERGING ISSUES

The Vice-chairman of IOC, Prof. Mario Ruivo, explained the rationale behind this item under the general concept that IOC needed to be alert and involved in any UN matter of interest to IOC Member States that might require the participation of this Body.

One Delegation expressed his concern about increasing requirements with respect to the conduct of marine scientific research and its possible impact on the environment.

The example of issues relating to marine biodiversity beyond national jurisdiction was cited as an issue of possible interest for the group in the future. Several Delegations considered that since this issue is being dealt with at the policy level by the UNGA, it was better to adopt a “wait and see” approach, in the understanding that IOC could be called upon by the UNGA to

cooperate in the undertaking of future studies, avoiding possible duplication of efforts. In this concern, one Delegation mentioned that one possibility of such studies could relate to the modalities of operation of marine biotechnology partnerships.

Keeping in mind that the mandate of IOC/ABE-LOS is defined at the request of the Governing Bodies or the IOC Executive Secretary, one Delegation pointed out that there was merit in the coming Executive Council in analysing the current mandate of the Body. He further raised the issue of carbon dioxide sequestration in geological structures under consideration by IMO as a potential matter of discussion within IOC. The Body could also give contributions on how to implement the criteria and guidelines on transfer of marine technology and the IOC procedure for the application of art. 247 of UNCLOS. He added that the impact on IOC of article 256 (marine scientific research in the area) of UNCLOS could be a matter of interest.

Several Delegations stressed the importance of promoting the transfer of marine technology and capacity building as a key element. Some Delegations stressed the need of IOC being actively involved in promoting the establishment of regional marine scientific and technological research centres as called for in article 276 of UNCLOS.

One Delegation suggested holding the next meeting of IOC/ABE-LOS in Gabon, Central Africa in the framework of promoting the creation of regional centres in developing countries.

One Delegation welcomed the discussions on “Emerging Issues” and, agreeing with the earlier explanation of Prof. Mario Ruivo, proposed to make a clear recommendation to establish IOC/ABE-LOS as a permanent body, among other reasons. He also suggested that IOC could play a role in developing capacity building and strong marine scientific research programmes under UNCLOS Article 247 for enclosed or semi-enclosed seas in the context of UNCLOS Part IX in relation to Parts XIII and XIV.

The Chairman recognized that the Delegations expressed a wide variety of issues, including recurring themes such as the need for technology transfer. He pointed out that IOC/ABE-LOS should be reflective and inform the governing bodies of the various interests of its members.

### 3.6 INFORMATION SESSIONS

Cecilia Gañan, General Director in the Regional Government of the “Junta de Andalucía”, presented the Andalusia (Spain-Morocco) “Intercontinental Biosphere Reserve” to the Participants. This is a pioneer partnership for the management of a natural intercontinental space in between the common boundaries (establishing the Gibraltar natural corridor) which is submitted by the two countries. She exposed that it aimed at contributing to the conservation of natural resources, and to the promotion of development respecting the environment. In this respect, it would encourage the development of the Sites of Biological Interest network in the north Morocco, and the consolidation of the Network of Protected Natural Areas in the Spanish region of Andalusia, at the same time as encouraging the sustainable use of the same to the benefit of the local population. This pioneer experience tends to improve the cooperation between regions that belong to different countries and different continents. The main objectives of the Project was to provide a management instrument that will allow promoting the development and consolidation of the protected natural areas in Andalusia and the north of Morocco and Promote a sustainable development model, favouring the enhancement and conservation of the specific natural and cultural resources and shared in the defined scope of the Intercontinental Biosphere Reserve, and also the social and economic development of the rural population.

Manuel Vargas, researcher from the Spanish Institute of Oceanography (IEO) summed up the main marine scientific research activities which are undertaken by the IEO. He referred to the Spanish participation within the IOC Programmes and Projects (e.g. Harmful Algae Bloom IOC Office with the special support of the “Centro Oceanográfico” of Vigo, Spain). He also identified the main IEO oceanographic collecting networks (tide gauge and time series sections) in relation to the observation and monitoring of the marine environment and its role in the climate. He emphasized the importance and need of a global and multidisciplinary ocean observing system in order to study in depth and in an efficient manner the oceans and their role in the earth system.

Jamie Skinner, Director of the IUCN-Mediterranean Office, presented the IUCN Organization, which was created in 1948 in Paris under the auspices of UNESCO. He stated that its objectives are to mobilize persons, organizations and countries through a common network to provide and use the available knowledge for the benefit of the Humankind and Nature. He pointed out that IUCN-Med was created in 2001 under the sponsorship of the Spanish Minister of Environment and la Junta de Andalusia, being its mission to encourage and assist the Mediterranean people to conciliate the conservation of natural resources with its sustainable use. He briefly presented the IUCN-Med Marines activities related to the status of species, risk measurement of maritime traffic for the biodiversity, the improvement of Ocean Governance and the promotion of marine protected areas.

#### **4. ADOPTION OF THE REPORT AND RECOMMENDATIONS**

**The Advisory Body adopted** this report and recommendations ([Annex II](#)) at the sixth session of IOC/ABE-LOS in Málaga, Spain on 7 April 2006.

#### **5. CLOSURE**

Ms Cecilia Gañán, General Director in the Regional Government of the “Junta de Andalucía” highlighted the commitment of the “Junta de Andalucía” with the Intergovernmental Oceanographic Commission of UNESCO, as proven by the sponsorship of the publication on the Criteria and Guidelines on Transfer of Marine Technology and the hosting of IOC/ABE-LOS VI.

Ms Concepción Escobar, Head of the Division Legal Affairs in the Ministry of Foreign Affairs of Spain, congratulated the Advisory Body and the IOC Secretariat for the work undertaken.

Mr Elie Jarmache, Chairman of IOC/ABE-LOS, on behalf of the Body and IOC, extended warm thanks to the host authorities and the staff involved in the organization of the meeting.

The sixth meeting of IOC/ABE-LOS was closed by the Chairman at 14.00, Friday 7 April 2006.

ANNEX I

**AGENDA**

- 1. OPENING**
- 2. ADMINISTRATIVE ARRANGEMENTS**
  - 2.1 DESIGNATION OF THE RAPPORTEUR
  - 2.2 ADOPTION OF THE AGENDA
  - 2.3 DOCUMENTATION
  - 2.4 CONDUCT OF THE SESSION
- 3. REPORTS ON INTERSESSIONAL ACTIVITIES**
  - 3.1 CHAIRMAN'S REPORT
  - 3.2 PROGRESS REPORT BY THE IOC SECRETARIAT
  - 3.3 REPORTS BY THE I-GOOS CHAIRMAN AND THE ARGO TECHNICAL COORDINATOR
  - 3.4 PROGRESS REPORT BY THE COORDINATOR OF THE IOC/ABE-LOS SUBGROUP ON THE IOC LEGAL FRAMEWORK FOR THE COLLECTION OF OCEANOGRAPHIC DATA WITHIN THE CONTEXT OF UNCLOS
  - 3.5 OTHER BUSINESS
    - 3.5.1 Exchange of views on Emerging Issues**
  - 3.6 INFORMATION SESSIONS
- 4. ADOPTION OF RECOMMENDATIONS AND SUMMARY REPORT**
- 5. CLOSURE**



ANNEX II

**ADOPTED RECOMMENDATIONS**

**The Advisory Body of Experts on the Law of the Sea at its sixth meeting (IOC/ABE-LOS VI) recommends the following:**

- (a) That the IOC Executive Secretary actively explores the possibility to implement “the Procedure for the application of article 247 of UNCLOS by the IOC” for appropriate scientific programmes and systems which the IOC coordinates or sponsors;**
- (b) That the sub-group on the IOC legal framework for the collection of oceanographic data within the context of UNCLOS,**
  - (i) Continues its work on the basis of comments and observations made when discussing the matter in IOC/ABE-LOS V and VI, and**
  - (ii) Calls for increased participation of its members in the intersessional work.**

**Such work shall be carried out in close cooperation with UN/OLA/DOALOS and in consultation with I-GOOS.**



## ANNEX III

### DETAILED DISCUSSIONS ON DOCUMENT IOC/ABE-LOS VI/8

**Title:** One Delegation suggested the title and original paragraph 3 should more accurately reflect the IOC Assembly's mandate, i.e., to propose practical guidelines for the conduct of deployments of specific means for the collection of oceanographic data. Another Delegation stated that such mandate was already clearly reflected in the title. After some debate on the title, it was decided to retain for the time being the current title, despite different views on the inclusion of the reference to UNCLOS.

**SECTION A:** One Delegation proposed to change the title of section A. in the French version from Antecedents to Genesis with the support of other Delegation, being followed in turn by yet another proposal to use the term Introduction.

Paragraph 1 and 2: In order to provide more consistency to the text, the group agreed to merge paragraphs 1 and 2 and, in a shorter version, become a new paragraph 2.

Paragraph 3: It was decided to convert this paragraph into the first paragraph of Section A. Proposals were made to amend the text.

Paragraph 4: After intense debate, it was agreed to move Paragraph 4 after Paragraph 5, introducing Paragraph 4 with the word "Accordingly" and keeping the full text between brackets.

Paragraph 5: The former paragraph 5 became the third paragraph and the group decided to postpone further debates on this text.

Paragraph 6: It was retained with minor editorial changes as paragraph five.

Paragraph 7: There was intense debate and several proposals regarding the use of the term sovereignty and/or, sovereign rights, as well as the need to keep or not the second sentence of the paragraph. One Delegation suggested the addition at the end of the first sentence of the text, "in so far as they conform with International Law, the Charter of the UN and the UN Resolutions". Another Delegate stated his wish to delete the full text of Paragraph 7. The text was kept between brackets since no final agreement was reached.

**SECTION B:** One delegation suggested to postpone consideration of the section on definitions until Section C on the scope of application is dealt with so as to avoid going back and forth between the two sections. Therefore, the group decided to discuss Section C, "Scope of Application", before Section B. Definitions in the understanding that eventual changes in the first one could affect the latter.

**SECTION C:** first sentence: One Delegation proposed to add the reference "in support of the IOC Programmes" or "under the auspices of IOC" so as to clarify the scope of application of the guidelines. This position was shared by some Delegations and, in turn, opposed by others who considered the proposal as unnecessarily restrictive. One Delegation said that the resolution did not limit the mandate of IOC/ABE-LOS and that the new wording was ambiguous as it would be difficult to define what activities of collection of oceanographic data were not under IOC. Another delegation explained that Paragraph 9 only established the scope of application of the guidelines as given by the IOC Assembly to IOC/ABE-LOS. One Delegation expressed his concern about the possibility of establishing a scope for the guidelines under discussion that

could go beyond the scope of programmes of oceanographic data collection undertaken under the auspices of IOC.

In accordance with the exact wording in IOC resolution, a Delegation suggested to redraft the first sentence as follows: “...aim at the conduct of the following activities”.

Para 9(i): It was agreed to remove the brackets in the first sentence and following a rich debate on the different types of floats, it was also agreed to delete the word “profiling” in brackets. However, while it was also agreed to delete the brackets around the words “and surface drifting buoys”, some delegations emphasized their acceptance of the reference to the general term “floats” to be defined later. Finally it was accepted to replace “surface drifting buoys” with “surface drifters” and retain “other IOC Member States” between brackets. Taking into account the nature of these Guidelines, one Delegation called upon the possibility of considering the case in which floats and drifters may enter into the EEZ of any State and not only IOC Member States.

Para 9 (ii): It was agreed to amend the text following the same criteria as in subparagraph 9 (i). One Delegation proposed to change the word “Nationality” without providing an alternative term and was not accepted. He further proposed to delete “profiling”, changing “surface drifting buoys” with “surface drifters”. It was also accepted to delete the brackets between “an IOC Member State or by an Institution...”

One Delegation posed the question on the deployment of floats and surface drifting buoys within an IOC Member State by an State of Institution non Member of IOC.

One Delegation raised the necessity to complement the text of this sub-paragraph with the last part of the previous one, considering the possibility of deploying a float in one EEZ that can drift into the EEZ of the neighboring coastal State. It was pointed out that very often floats can also drift from EEZ to a Territorial Sea.

Para 9. (iii): One Delegation proposed, with the support of other Delegations, to concentrate first on formulating guidelines for the profiling floats and drifters and suspend for the time being discussion on XBTs as these were an entirely different modality of collection of data requiring a different treatment, thus meriting a separate discussion after the work on the floats had advanced. He then proposed to separate the discussion of item (iii) from the items (i) and (ii). Some Delegations agreed while other Delegations disagreed with the proposal of separating the item (iii) from (i)-(ii), in the understanding that the way Section C was written, reflected the Assembly mandate. It was further mentioned that although all three means of data collection, namely floats, drifters and XBTs, were themselves different instruments, technologies and collection modalities that would require individual treatment. For the sake of consistency with IOC Resolution XXIII-8 items (i), (ii) and (iii) need to remain together as they appear in the second draft.

The Chairperson of ABE-LOS pointed out that Section F of the draft document dealt specifically with XBTs, providing the opportunity to discuss that means of collection of data and give it a separate treatment.

One Delegation stated that the issue of responsibility is an important matter, posing the question of the liability in the case of violations within projects not conducted in accordance with International Law.

The text of item (ii) was amended following the same criteria as (i), remaining open the discussion on the term “nationality”.

Following previous agreement the discussion on item (iii) was postponed.

**SECTION B:** The group begun discussions on Section B: “definitions”. Various Delegations highlighted the usefulness of this Section.

Para 8 (i): Several Delegations agreed on the importance of data and metadata. Notwithstanding, there was an extensive debate on the definition of oceanographic data.

One Delegation pointed out the complexities of trying to define oceanographic data and cited IOC Resolution XXII-6 as an example. He considered that if the objective was to create a tool flexible enough to address future needs resulting from technological developments, instead of listing observed variables or parameters, a broader approach should be used.

Three different positions were established;

- a. produce a non exclusive, non restrictive open list of variables,
- b. produce a closed and limited list of variables, and
- c. not produce any variable list at all

One Delegation considered that there was no need to define oceanographic data in this document and considered that the parameters were sufficiently defined in sections D, E and F.

Different proposals were made on the definitions of oceanographic data, without reaching a final agreement.

One Delegation stated that the definition of oceanographic data had to be fully compatible with IOC existing policies, and suggested to have a listing with a broad focus rather than a restrictive one.

Another Delegation was of the opinion that even though it was recognized that collected data is for the benefit of all countries, the number of variables included in the definition should be restricted as it was not possible to produce a comprehensive list.

One Delegation called for flexibility in the definitions.

One Delegation considered important to clarify what was understood by each of the data collection means under consideration.

The Chairman of IOC/ABE-LOS proposed to create an annex compiling the variables collected by different means which would be informative and reviewed and updated on a regular basis following technical evolution and progress. While recognizing the technical validity of this method, one Delegation pointed out the practical difficulties that this proposal may entail.

One Delegation reminded that some of the equipments were vehicles which could carry different sensors to measure different variables.

Two proposals on definition of data were presented for analysis during the intersessional period.

One Delegation suggested that the coordinator should receive the assistance of an expert to deal with technical matters.

One Delegation considered that there were, so far, three alternatives on how to proceed:

- not defining oceanographic data
- give a more or less broad definition of oceanographic data
- create an annex compiling an indicative list of measured variables

Another Delegation stated some other approaches to be considered:

- Defining oceanographic data in wide sense
- Defining oceanographic data with regard to the activities mentioned in IOC Resolution XXIII-8.
- Creating an annex with the collection of the measured parameters.

One Delegation stated that there was a need to clarify what was expected from IOC/ABE-LOS on the issue under discussion. He put clearly that ongoing discussion of IOC/ABE-LOS regards specifically the use of equipments for data collection that can drift into waters under jurisdiction of a coastal State -emphasizing that it may not only involve EEZs - and, in the case of XBTs, that are launched within such jurisdiction. He also highlighted the difference between the mandate of IOC/ABE-LOS and requests addressed to this Advisory Body. In this regard, he quoted Resolution XX-6, and emphasized that the need for expedited practical guidelines should not hinder legal solutions. Finally, he reminded that the responsibility under International Law for equipments deployed in the sea falls on the States, as all ships have a flag.

One Delegation supported by other Delegations posed the question related to the conduct to undertake in case of request of authorization and deployment in the marine areas in dispute or conflict of boundaries between two countries.

One Delegation expressed his satisfaction for the level of attendance and participation. Notwithstanding, he regretted the lack of appropriate level of response to the coordinator's requests during the intersessional period. He considered that last minute contributions limited the progress of the work of IOC/ABE-LOS at meetings.

## ANNEX IV

### **REPORT ON IOC/ABE-LOS ACTIVITIES DURING THE INTERSESSIONAL PERIOD**

*By Elie Jarmache, Chairman of IOC/ABE-LOS*

You have received a report prepared by the Technical Secretary of IOC/ABE-LOS on the activities developed during the intersessional period. It is the first time that a report of this kind is established; it is worth mentioning the quality of the work as well as the interest of the information therein contained. You can get acquainted with the different activities that a Secretariat can do even if it is limited to just one person.

You have then the possibility of asking questions and to request some clarifications on certain matters as well as of expressing your appreciation or to manifest your deception.

The initiative taken the Technical Secretary simplifies the task of presenting my own report which will be a complement, without entering into the details as to the activities developed during the intersession.

After our fifth session, I have submitted a report to the IOC Assembly on the progress made by our group and, on behalf of it, I have requested that our recommendation be adopted, particularly the one concerning the implementation of an internal IOC procedure for the application of Article 247 of the Montego Bay Convention. The Assembly has endorsed our recommendation. A debate not directly related to our work but to the budget allotted by the IOC to ABE-LOS, its subsidiary organ, has taken place.

The negative comments expressed sometimes with respect to ABE-LOS are a minority. We must try to keep them this way by working rigorously and being efficient, and particularly by producing results.

I would like to share with you some events that have taken place after our session in Buenos Aires. I think that they reflect the importance of our work.

The common denominator of these facts is the issue of marine scientific research, its nature, its role and its definition or the absence of it. As a complement to these events, the matter of transfer of marine technology should be mentioned.

The numerous intergovernmental or international conferences have insisted on the value and the central role that oceans play within the global natural system, especially as the question of climate change is concerned. We are dealing in this case with a scientific matter as well as one of governance.

The first consequence is the need for more scientific knowledge on oceans because it will facilitate the understanding and the management or the governance of marine ecosystems. The second consequence is the need of sharing knowledge, of disseminating as much information as possible, particularly to developing countries. This must be done by encouraging the collaboration among States, but mainly by means of the application of programs developed by international organisations competent in the maritime area.

The International Seabed Authority is an example worth mentioning. During its session of August 2005, it decided to deal with this request by anticipating to implement a mechanism whereby

scientists from developing countries would associate in order to elaborate research programs that the Authority could carry out together with its contracting parties and other partners. In this way, the Authority intends to apply Article 143 and 144 of the Convention on the Law of the Sea.

Among the recent international meetings that may have a relation to our work, or at least be of interest to us, mention should be especially made of the ad hoc group on the conservation and sustainable use of biodiversity in areas beyond the limits of national jurisdiction. This working group has been established by the United Nations General Assembly Resolution 59/24 of 17 November 2004, pursuant to paragraph 73. The meeting took place in New York from February 13 to 17 2006.

The participants to this Conference have insisted on an issue well known by IOC/ABE-LOS – even if we have difficulties in finding a solution to it- concerning the definition of marine scientific research. This question has emerged in relation to a matter known as “bioprospection”.

Everybody knows that no text provides a definition for bioprospection. The different approaches have been established by analogy with the prospection of mineral resources. The most basic definition affirms that it is a collection of biological resources in specific ecosystems where a special category of resources called genetic can be obtained. These resources have a commercial and industrial potential, and therefore a real economic value.

The difficulty arising from the issue of bioprospection is that the collection makes use of the same means and materials as those utilized in marine scientific research. The main actors in the field of bioprospection are scientists. The answer to the question of a definition for bioprospection may have consequences on the research in the high seas as well as an impact on the regime of access to resources.

Notwithstanding the criteria adopted for a definition, it has been noted that marine scientific research activities could have, in themselves, dangerous effects on biodiversity. It has been suggested to elaborate a code of conduct in order to provide the researching activities and scientists with an adequate framework.

The following quotation is an excerpt from the report by the Co-Chairpersons of the ad hoc working group: “an area where the need for further international cooperation has been identified relates to the status of marine scientific research addressing biological diversity beyond areas of national jurisdiction, particularly in the deep seabed.” Two different views emerge from the report in this regard: on the one hand, the fact that it is an activity under the freedom of research and, on the other hand, that the research regime is that regulated by the provisions dealing with MSR in the Area (Part XI) and in Part XIII.

It is evident that this is an incipient debate and that it will occupy a central place when assessing the mandate the UN General Assembly has assigned to the ad hoc working group. You are a member of IOC/ABE-LOS but you are also recognised experts in your countries that may be consulted on this matter.

It is interesting to observe that a debate of the same type is included in our agenda, concerning the collection of oceanographic data. In fact, in both cases, bioprospection and our issue, two elements coexist: scientific research and applications.

I wish that our reflections lead to a consensus on the ways of setting a framework for the collection of oceanographic data, which can be of use to our future work.

ANNEX V

**WELCOME ADDRESS BY PROFESSOR MARIO RUIVO, VICE-CHAIRMAN  
OF THE INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION OF UNESCO**

On behalf of the Intergovernmental Oceanographic Commission, I wish to welcome the participants to the Sixth Session of the Advisory Body of Experts on the Law of the Sea (IOC/ABE-LOS) and, in particular, to thank the authorities of the Central, Autonomic and Local Administration present for their support to the IOC of UNESCO. With their help, the Group IOC/ABE-LOS has had the opportunity of meeting in a privileged setting, door of the Mediterranean.

Spain, a coastal State par excellence, plays an essential role within the Law of the Sea and in the activities developed by the main international organizations dedicated to the oceans, as a result of a long historical tradition. This feature will constitute the inspirational framework for the debates of IOC/ABE-LOS.

The existence of this Intergovernmental Group dates back to 1996, immediately after the Convention of the Law of the Sea came into force. It started as a “small committee”, gathering representatives of various States, who were called upon in order to provide an answer to many of the questions revolving around the Convention, also called the “Constitution of the Oceans”. To date, the number of members of this small Group has never ceased to increase, as evidenced by the high attendance to this Session. In this way, it has built its reputation within the international community and has become a point of reference, as indicated by the last resolutions of the United Nations General Assembly.

This Sixth meeting raises high hopes within the IOC with respect to the project of IOC/ABE-LOS, body whose 135 Member States work in cooperation with the Secretariat and DOALOS in New York, in a continuous way, in order to make their contribution within the framework of the mandate granted by the IOC.

The results achieved by IOC/ABE-LOS in the past are today not more than the point of departure for further work, a challenge for the implementation of instruments such as the “IOC Criteria and Guidelines on the Transfer of Marine Technology” and the “Procedure for the application by the IOC of Article 247 of the Convention”. IOC does not consider that the discussions on these documents have been accomplished with the agreements achieved by the Governments participating in the debates because now the moment has come to give them life. Likewise, this challenge gives way to new issues, such as those related to the legal framework for the collection of oceanographic data and other potential matters as biodiversity, discussions on which are closely followed by the Secretariat.

As the European Strategy of the Sea demonstrates, the matters related to the oceans represent again a priority in the agendas of States; the results of this meeting in Malaga having thus a clear impact at the international level.

In this context, the results of this IOC/ABE-LOS meeting, including those related to item 3.4.1 on emerging issues, are fundamental to allow the Executive Council to dispose, at its next session, of a wide range of the positions of Governments present, which will facilitate—in a consensual manner, we hope—the task of making comments on the future work of the Commission in relation to Part XIII of the United Nations Convention on the Law of the Sea and other provisions pertaining to Science.

As Said al'Andalusi, a poet of this land, expressed:

*“men of science have been the light in the dark, the guides leading us into the right way, the masters of men and the elite of nations.”*

We should not forget that we are here today, to the service of these men, thanks to the hospitality of Member States such as Morocco, Portugal, Greece and Argentina, in previous opportunities, and to Spain on this occasion, particularly to its regional Government, the Junta de Andalucía.

ANNEX VI

**LIST OF DOCUMENTS**

<b>Document Code</b>	<b>Title</b>	<b>Agenda Items</b>	<b>Langages</b>
<b>WORKING DOCUMENTS</b>			
IOC/ABE-LOS VI/1 prov. Rev	Revised Provisional Agenda	1-5	E F
IOC/ABE-LOS VI/1 Add. prov.	Provisional Timetable	2.2, 2.4	E F
IOC/ABE-LOS VI/2 prov	Provisional Annotated Agenda	2-5	E F
IOC/ABE-LOS VI/3 prov.	Draft Summary Report <i>(to be prepared during the meeting)</i>	1-5	E F
IOC/ABE-LOS VI/4 prov.	Provisional List of Documents	2.3	E F
IOC/ABE-LOS VI/5 prov.	Provisional List of Participants	--	--
IOC/ABE-LOS VI/6	Chairman's report on IOC/ABE-LOS activities during the intersessional period <i>(Elie Jarmache)</i>	3.1	E F
IOC/ABE-LOS VI/7	Progress report by the IOC Secretariat	3.2	E F
IOC/ABE-LOS VI/8	Progress Report by the Coordinator of the IOC/ABE-LOS Sub-Group on the IOC legal framework for the collection of Oceanographic Data within the context of UNCLOS <i>(Kari Hakapää)</i>	3.3	E F
IOC/ABE-LOS VI/9	Memorandum (summary of views) of the IOC/ABE-LOS Sub-Group on the IOC legal framework for the collection of Oceanographic Data within the context of UNCLOS <i>(Secretariat)</i>	3.3	E F
<b>INFORMATION DOCUMENTS</b>			
A/RES/60/30	UNGA Resolution on Oceans and the Law of the Sea		E F
A/RES/59/24	UNGA Resolution on Oceans and the Law of the Sea		E F
	IOC Resolutions XX-6, XXI-6, XXIII-8, XXIII-9		E F

<b>Document Code</b>	<b>Title</b>	<b>Agenda Items</b>	<b>Langages</b>
IOC/ABE-LOS V/Recommendation 1.b	Orientation Guide for the IOC Roster of Experts on Marine Scientific Research and transfer of Marine Technology ( <i>Secretariat</i> )	3.2	E F
IOC/ABE-LOS V/3	Summary Report of the Fifth Meeting of the IOC Advisory Body of Experts on the Law of the Sea		E F
	IOC Criteria and Guidelines on Transfer of Marine Technology		E F
	Report on the “Argo Project”		

ANNEX VII

LIST OF PARTICIPANTS

**I. OFFICERS OF THE  
MEETING/OFFICIERS DE  
LA RÉUNION**

**Chairman/Président**

Mr Elie JARMACHE  
Secrétariat Général de la Mer  
16, boulevard Raspail  
75007 Paris  
France  
Tel: (+33) (0) 1 53634158  
Fax: (+33) (0)1 53634178  
Email: [elie.jarmache@pm.gouv.fr](mailto:elie.jarmache@pm.gouv.fr)

**Rapporteur**

Mr Ariel Hernán TROISI  
Miembro de la Representación Científica  
Argentina ante la COI  
Director del Centro Argentino de Datos  
Oceanográficos  
Avda Montes de Oca 2124  
C1270ABV Buenos Aires  
Tel: (+54) 11 43032240  
Fax : (+54) 11 43032240  
Email : [atroisi@hidro.gov.ar](mailto:atroisi@hidro.gov.ar)

**II. EXPERTS PARTICIPANTS FROM  
MEMBER STATES/EXPERTS  
PARTICIPANTS DES ETATS  
MEMBRES**

**Argentina/Argentine**

Mr Ariel Walter GONZALEZ  
Consejero  
Dirección de Consejería Legal  
Ministerio de Relaciones Exteriores, Comercio  
Internacional y Culto  
Esmeralda 1212, piso 15 Cap. Federal  
Tel: (+54) 11 4819-8008  
Email: [awg@mrecic.gov.ar](mailto:awg@mrecic.gov.ar)  
[arielwgonzalez@yahoo.com](mailto:arielwgonzalez@yahoo.com)

Mr Ariel Hernán TROISI  
Miembro de la Representación Científica  
Argentina ante la COI  
Director del Centro Argentino de Datos  
Oceanográficos

Avda Montes de Oca 2124  
C1270ABV Buenos Aires  
Tel : (+54) 11 43032240  
Fax : (+54) 11 43032240  
Email: [atroisi@hidro.gov.ar](mailto:atroisi@hidro.gov.ar)

**Belgium/Belgique**

Professor Dr. E. FRANCKX  
Director  
Faculty of Law  
Department of International and European Law  
Centre for International Law  
Vrije Universiteit Brussel  
Pleinlaan 2  
1050 Brussels  
Tel: (+32) 2 629 2606  
Fax: (+32) 2 629 1259  
Email: [erik.franckx@vub.ac.be](mailto:erik.franckx@vub.ac.be), [iere@vub.ac.be](mailto:iere@vub.ac.be)

**Brazil/Brésil**

Mr Marcos L. DE ALMEIDA  
Commander  
Brazilian Navy  
Division of Maritime and Environmental Affairs  
Esplanada dos Ministérios  
Bloco N, 5º andar  
Brasilia, DF 70055-900  
Tel: (+55) 61 3429 1005  
Fax: (+55) 61 3429 1051  
Email: [marcosalmeida.brazil@gmail.com](mailto:marcosalmeida.brazil@gmail.com)

**Bulgaria/Bulgarie**

Ms Birsen JEMILOVA  
Expert  
National Commission for UNESCO  
Ministry of Foreign Affairs  
2, Alexander Zhendov St.  
Sofia 1040  
Tel: (+359) 2 948 2402  
Fax: (+359) 2 973 33 41  
Email: [Bdjemilova@mfa.government.bg](mailto:Bdjemilova@mfa.government.bg)

**Canada**

Mr Kenneth WONG  
Foreign Affairs Canada Oceans Law Section  
Department of Foreign Affairs and International  
Trade

Ministère des Affaires étrangères et du  
Commerce international  
125 Sussex Drive - Ottawa - Ontario - K1A 0G2  
Tel: (+1-613) 992-1360  
Fax/Télécopieur: (+1 613) 992-6438  
Email: [ken.wong@international.gc.ca](mailto:ken.wong@international.gc.ca)

#### **Chile/Chili**

Mr John RANSON  
Abogado  
Estado Mayor de la Armada  
Primera Zona Naval Plaza Sotomayor s/n  
Valparaiso  
Tel : (+56) 32 506147/32 484232  
Email: [jranson@armada.cl](mailto:jranson@armada.cl)

Ms María del Pilar SOBERADO NUNEZ  
Abogado  
Servicio Hidrográfico y Oceanográfico de la  
Armada de Chile  
Errázuriz 254  
Playa Ancha  
Valparaiso  
Tel : (+56) 32 266506  
Fax : (+56) 32 266502  
Email: [auditor@choa.cl](mailto:auditor@choa.cl); [psoberado@yahoo.es](mailto:psoberado@yahoo.es)

#### **China/Chine**

Dr. ZHANG Haiwen  
Deputy Director-General  
Research Fellow  
China Institute for Marine Affairs (CIMA)  
State Oceanic Administration (SOA)  
1 Fuxingmenwai Ave  
Beijing 100860  
P.R. China  
Tel/Fax : (+86) 10 68044631  
Email: [haiwen@cima.gov.cn](mailto:haiwen@cima.gov.cn);  
[haiwencima@yahoo.co.cn](mailto:haiwencima@yahoo.co.cn)

Mr TANG Dong Mei  
Programme Officer  
Division of International Organizations  
Department of International Cooperation  
State Oceanic Administration (SOA)  
People's Republic of China  
1 Fuxingmenwai Ave  
Beijing 100860  
P.R. China  
Tel : (+86) 10 68047671  
Fax : (+86) 10 68048051  
Email: [dongmei\\_tang@263.net](mailto:dongmei_tang@263.net);  
[tdm@soa.gov.cn](mailto:tdm@soa.gov.cn)

#### **Colombia/Colombie**

Mr Julian Augusto REYNA MORENO  
Capitán de Fragata  
Secretario Ejecutivo  
Comisión Colombiana del Océano  
Bogotá-Colombia-Suramérica  
Transv. 41 N°. 27-50, Edificio DIMAR, Piso 4  
Tel: 2220449/36/21,  
Fax: 2220416  
[www.cco.gov.co](http://www.cco.gov.co)  
Email: [seco@cco.gov.co](mailto:seco@cco.gov.co)

#### **Cyprus/Chypre**

Dr Michalis STAVRINOS  
Head of Legal Affairs and Conventions  
Ministry of Foreign Affairs  
Presidential Palace Avenue 1447  
Nicosia  
Tel: (+357) 22.40 1228/29  
fax: (+357).22.661881  
Email: [mstavrinos@mfa.gov.cy](mailto:mstavrinos@mfa.gov.cy)

#### **Democratic Republic of Timor- Leste/République démocratique du Timor- Leste**

Ms Montserrat GORINA-YSERN  
Law of the Sea Adviser to the Ministry of  
Foreign Affairs  
4601 North Park Avenue 807  
Chevy Chase  
Maryland 20815  
United States of America  
Tel. (+1.301) 652 0506  
Tel: (+1 800) 657 6643  
Email: [montserrat.gorina@verizon.net](mailto:montserrat.gorina@verizon.net)

#### **Dominican Republic/République dominicaine**

Ing. Carlos MICHELEN  
Ambassador and Director of the National  
Oceanographic Commission  
Secretaria de Estado de Relaciones Exteriores  
Ave Independencia #752  
Sto. Domingo  
Tel: (+809) 535 6280 – extensión 2421 or  
Tel: (+809) 535 4986  
Email [carlosmichelen@gmail.com](mailto:carlosmichelen@gmail.com)

#### **Ecuador/Equateur**

Mr Humberto GOMEZ P.  
Capitán de Fragata-EM  
Comisión Nacional Sobre el Derecho del Mar  
Asesor Técnico - Científico  
Av. P. Menéndez Gilbert  
Guayaquil

Tel. (+593) 2394722  
Email: [hgomez@inocar.mil.ec](mailto:hgomez@inocar.mil.ec)

#### **Finland/Finlande**

Prof. Kari HAKAPÄÄ  
Professor of Public International Law  
University of Lapland, Faculty of Law  
P.O. Box 122  
FI-96101 Rovaniemi  
Tel: (+358) 16 341 2523/ 379 4805  
Fax: (+358) 16 341 2500  
Email: [Kari.Hakapaa@ulapland.fi](mailto:Kari.Hakapaa@ulapland.fi)

#### **France**

Mr Elie JARMACHE  
Secrétariat Général de la Mer  
16, boulevard Raspail  
75007 Paris  
France  
Tel: (+33) (0) 1 53634158  
Fax: (+33) (0)1 53634178  
Email: [elie.jarmache@sgmer.pm.gouv.fr](mailto:elie.jarmache@sgmer.pm.gouv.fr)

#### **Gabon**

Dr Pierre MAGANGA  
Ambassador Director General of the law of the sea  
DGDM / Ministry of Foreign Affairs  
Cooperation, Francophony and Regional Integration  
B.P 408 Libreville  
Tel: (+241) 73 12 48; 73 09 59  
Fax : (+241) 730 963  
Mobile. (+241) 06246587/07505444  
Email: [magp58@yahoo.fr](mailto:magp58@yahoo.fr)

#### **Germany/Allemagne**

H.E. Friedrich Wilhelm CATOIR  
Head of Delegation  
Ambassador Law of the Sea  
Federal Foreign Office  
D-11013 Berlin  
Tel.: (49) 30-5000-2518  
Fax: (49) 30-5000-52518  
Email: [504-RL@auswaertiges-amt.de](mailto:504-RL@auswaertiges-amt.de)

Dr Martin VISBECK  
Professor of Oceanography  
IFM-GEOMAR  
Leibniz Institut für Meereswissenschaften,  
Düsternbrooker, Weg 20  
24105 Kiel  
Tel: (+49) 431.600.4100  
Fax: (+49) 431.600.4102

Email : [mvisbeck@ifm-geomar.de](mailto:mvisbeck@ifm-geomar.de)

Mr Jochen BRAIG  
Research Fellow  
Max-Planck-Institut for International Law  
Im Neuenheimer Feld 535  
D-69120 Heidelberg  
Tel.: (49) 6221-482 628  
Fax: (49) 6221-482 288  
Email: [jbraig@mpil.de](mailto:jbraig@mpil.de)

#### **Haiti/Haïti**

Mr Joel ESPECA  
Directeur Adjoint des Institutions Internationales,  
Congrès et Conférences  
Ministère des Affaires Etrangères  
Bicentenaire  
Port au Prince  
Tel: (+509) 223.1646  
Email: [espogel@hotmail.com](mailto:espogel@hotmail.com);  
[azad59\\_2009@yahoo.fr](mailto:azad59_2009@yahoo.fr)

#### **India/Inde**

Dr Krothapalli SOMASUNDAR  
Scientific Officer  
Department of Ocean Development,  
Government of India  
Block 12, CGO Complex, Lodi Road  
New Delhi 110-003  
Tel: (+91) 11-24361068  
Fax: (+91) 11-24360336  
Email: [soma@dod.delhi.nic.in](mailto:soma@dod.delhi.nic.in)

Mr S. K. DAS  
Adviser  
Department of Ocean Development  
Government of India  
Block 12, CGO Complex, Lodi Road  
New Delhi 110-003  
Tel: (+91) 11 243 06813  
Fax: (+91) 11 243 62023  
Email: [skdod@yahoo.com](mailto:skdod@yahoo.com)

#### **Indonesia/Indonésie**

Dr Etty R. AGOES  
Professor of International Law  
Indonesian Center for the Law of the Sea  
(ICLOS)  
Padjadjaran University  
Faculty of Law  
Jl. Imam Bonjol 21  
Bandung 40132  
Tel.: (+62 22) 250 1229  
Fax: (+62 22) 251 6428  
Email: [agoes@yahoo.com](mailto:agoes@yahoo.com)

### **Japan/Japon**

Mr Kazuhiro KITAZAWA  
Special Adviser for the Director  
Planning Department  
Japan Agency for Marine-Earth Science and  
Technology  
(JAMSTEC)  
2-15 Natsushima-cho  
Yokosuka 237-0061  
Japan  
Tel: (+81) 46 867 9191  
Tel: (+81) 46 867 9195  
Email: [kitazawa@jamstec.go.jp](mailto:kitazawa@jamstec.go.jp)

Mr Atushi KATO  
Assistant Director  
Ocean Division  
Ministry of Foreign Affairs  
2-2-1 Kasumigaseki chiyoda-Ku  
Tokyo  
Tel: (+81) 3 5501 8333  
Fax: (+81) 3 5501 8332  
Email: [atsushi.kato@mofa.gov.jp](mailto:atsushi.kato@mofa.gov.jp)

### **Kenya**

Dr Johnson M. KAZUNGU  
Director,  
Kenya Marine & Fisheries Research Institute  
P.O. Box 81651  
Mombasa  
Tel/Fax: (+254 11) 47 51 57  
Email: [jkazungu@kmfri.co.ke](mailto:jkazungu@kmfri.co.ke)

### **Mexico/Mexique**

Mr Alfonso ASCENCIO  
Permanent Mission of Mexico to the UN  
Two UN Plaza, 28th Fl.  
New York, NY 10017  
Tel: (+1 212) 752.0220  
Fax: (+1 212) 688-8862  
Email: [alfonsoa@sre.gob.mx](mailto:alfonsoa@sre.gob.mx)

### **Morocco/Maroc**

Prof. Mohammed MONCEF  
Réseau National des Sciences et Techniques de  
la Mer  
REMER  
Université Chouaïb Doukkali  
Faculté des Sciences  
Groupe "Sciences de la Mer"  
Laboratoire d'Etude et d'Analyse  
Environnementales (LEAE)  
B.P. 20  
24000 – EL JADIDA

Tel: (+212) 23 34 30 03  
Fax: (+212) 23 34 21 87  
Email: [mdmoncef@yahoo.fr](mailto:mdmoncef@yahoo.fr)

Prof. Larbi SBAI  
Docteur d'Etat en droit  
Ministère Pêche Maritime  
Agdal-Rabat  
Tel: (+212) 37 68 82 60  
Fax: (+212) 37 68 82 63  
Email: [sbai@mpm.gov.ma](mailto:sbai@mpm.gov.ma)

### **The Netherlands/Les Pays-Bas**

Mr Alfred H.A. SOONS  
Professor of Public International Law  
Utrecht University  
Achter Sint Pieter 200  
NL-3512 HT Utrecht  
Tel: (+31) 30 253 7056  
Fax: (+31) 30 253 7073  
Email: [A.SOONS@LAW.UU.NL](mailto:A.SOONS@LAW.UU.NL)

### **Peru/Pérou**

Dr Elvira VELÁSQUEZ  
Minister  
Deputy Chief of Mission  
Embassy of Peru  
Gottfried Keller-Gasse, 2/1-2  
1030 Vienna  
AUSTRIA  
Tel: (+43) 1 7134377, 71 57486 and 7137054  
Email: [evelasquez@rree.gob.pe](mailto:evelasquez@rree.gob.pe)

### **Philippines**

H.E. Alberto A. ENCOMIENDA  
Director  
Maritime and Ocean Affairs Center  
Ministry of Foreign Affairs  
Tel: (+632) 834.4052  
Email: [moac@dfa.gov.ph](mailto:moac@dfa.gov.ph)

### **Portugal**

Prof. Maria Eduarda GONCALVES  
Department of Law  
Instituto Superior de Ciencias do Trabalho e da  
Empresa  
Avenida das Forças Armadas 1649-026  
Lisbon  
Phone: (+21) 793 50 00 or 21 790 3494  
Fax: (+21) 790 64710  
Email: [mebg@iscte.pt](mailto:mebg@iscte.pt)

**Republic of Congo/République du Congo**

H.E. Louis Marie NOMBO-MAVOUNGOU  
Ministre des Transports Maritimes et de la  
Marine Marchande  
BP 15000  
Tour Nabimba, 16 étage  
Brazzaville  
Tel : (+242)82.55.16  
Fax : (+242)82.55.14  
Email : [mtmmm@hotmail.com](mailto:mtmmm@hotmail.com)

Mr Jean Felix MOUTHOU-D-CHIKAYA  
Directeur Général  
Direction Générale de la Marine Marchande  
BP 1107 Pointe Noire  
Tel: (+242) 94 01 07  
Fax: (+242) 553 77 74  
Email: [digemar.pointe-noire@laposte.net](mailto:digemar.pointe-noire@laposte.net)

Mr Jules NGOMA  
Consultant  
Ministère des Transports Maritimes et de la  
Marine Marchande  
B.P. 615 Pointe Noire  
Email: [judioosso@yahoo.fr](mailto:judioosso@yahoo.fr)

Mr Jean Claude MOUNGONDO-NSI MBA  
Administrateur des SAF,  
Attaché Financier Chargé du Matériel  
Ministère des Transports Maritimes et de la  
Marine Marchande  
BP 15000 Brazzaville  
Tel: (+242) 665 25 90  
Fax: (+242)557 64 04  
Email: [mtmmm@hotmail.com](mailto:mtmmm@hotmail.com)

Mr Alain Claver BATCHY  
Consultant en Ecosystèmes Marin et côtier  
Cabinet  
Ministère des Tansports Maritimes et de la  
Marine Marchande  
Bureau 16 étage Tour Nabemba  
BP 15000 Brazzaville  
Tel : (+242) 82 55 16  
Cel. : (+242) 521 38 80  
B.P. 4808 Pointe Noire  
Fax: (+242) 82 55 14  
Email: [batchyalain@yahoo.fr](mailto:batchyalain@yahoo.fr)

Mr Pierre Claver MBOUITI  
Juriste  
Ministère des transports Maritimes et de la  
Marine Marchande  
BP 15000  
Brazzaville  
Tel: (+242) 82 5515

Fax: (+242) 520 8945  
Email: [mtmmm@hotmail.com](mailto:mtmmm@hotmail.com)

**Republic of Korea/République de Corée**

Prof. Yong Hee LEE  
Korean National Coordinator for IOC/ABE-LOS  
Department of Law  
College of International Studies  
Korea Maritime University  
1, Dongsam-dong, Youngdo-ku,  
Busan, 606-791  
Phone: (+82) 51 410 4395  
Fax: (+82) 51 404 3987  
Email: [yhlee@bada.hhu.ac.kr](mailto:yhlee@bada.hhu.ac.kr)

Mr Charity M. LEE  
Senior Research Specialist  
Ocean Policy Center  
Korean Ocean Research and Development  
Institute  
ANSAN P.O. Box 29  
SEOUL 425-600  
Tel: (+82) 31400 6507  
Fax: (+82) 31400 6505  
Email: [cmlee@kordi.re.kr](mailto:cmlee@kordi.re.kr)

Dr Seong-Wook PARK  
Senior Research Scientist  
Ocean Policy Center  
Korean Ocean Research and Development  
Institute  
ANSAN P.O. Box 29  
SEOUL 425-600  
Tel: (+82) 31 400 6504  
Fax: (+82) 31 400 6505  
Email: [swpark@kordi.re.kr](mailto:swpark@kordi.re.kr)

**Roumania/Roumanie**

Mr Dumitru DOROGAN  
Counsellor  
Ministry of Environment and Water  
Management  
Water Resource Management Direction  
B-dul. Libertatii 12  
Sector 5, Bucharest  
Phone: (+40) 21 319 25 91  
Mobile (+40) 744 177 173  
Fax: (+40) 21 316 02 82  
Email: [dorogan@gmail.com](mailto:dorogan@gmail.com);  
[dumitru.dorogan@mmediu.ro](mailto:dumitru.dorogan@mmediu.ro)

**Senegal/Sénégal**

Mme Marième Diagne TALLA  
Juriste des droits de la mer

Chef du bureau Législation et Suivi des Accords  
et Conventions  
Direction des Pêches Maritimes  
Ministère de l'Economie Maritime et des  
Transports Maritimes Internationales  
1, rue Joris - DAKAR  
Tel: (+221) 823 01 37  
Fax: (+221) 821 47 58  
Email: [dopm@sentoo.sn](mailto:dopm@sentoo.sn)

Dr Birane SAMB  
Fisheries Biologist  
Centre de recherches océanographiques de  
Dakar Thiaroye  
BP 22 41  
Dakar  
Tel: (+221) 832 82 65  
Fax: (+221) 832 82 62  
Email: [Bsambe@yahoo.fr](mailto:Bsambe@yahoo.fr)

#### **Serbia and Montenegro/Serbie et Monténégro**

Mr Goran JURISIC  
Republic Navigation Safety Inspector  
Ministry of Maritime Affairs and Transportation  
Republic of Montenegro/State Union of Serbia  
and Montenegro  
Harbour Master's Office  
Obala 13 Jula  
85000 Bar  
Tel: (+381) 85 302060  
Mobile phone: (+381) 69 035423  
Email: [mingo@cg.yu](mailto:mingo@cg.yu)

Dr Zoran KLJAJIC  
Deputy Director  
Institute of Marine Biology - Kotor  
Dobrota bb  
85330 Kotor  
Montenegro  
Tel. (+381) 82 302 040 or Tel. 381 690 25852  
Fax: (+381) 82 334570  
Email: [biokotor@cg.yu](mailto:biokotor@cg.yu)

#### **Spain/Espagne**

Dra. Concepción ESCOBAR HERNANDEZ  
Jefa de la Asesoría Jurídica Internacional  
Ministerio de Asuntos Exteriores y de  
Cooperación  
Plaza de la Provincia 1  
28012 Madrid  
Phone: (+34) 91 379 99 13  
Fax: (+34) 91 364 06 45  
E mail: [concepcion.escobar@mae.es](mailto:concepcion.escobar@mae.es)

Dra. Concepción SOTO  
Directora General, Instituto Español de  
Oceanografía  
Avda. de Brasil, 31  
28020 Madrid  
Tel: 34 91 417 54 38  
Fax: 34 91 555 19 54  
E-mail: [csotocd@icd.es](mailto:csotocd@icd.es)

Dr Sergio Román CARRANZA FORSTER  
Consejero Técnico  
Asesoría Jurídica Internacional  
Ministerio de Asuntos Exteriores y de  
Cooperación  
Plaza de la Provincia 1  
28012 Madrid  
Phone: (+34) 91 379 99 14  
Fax: (+34) 91 364 06 45  
E mail: [sergio.carranza@mae.es](mailto:sergio.carranza@mae.es)

Dr Gregorio PARRILLA BARRERA  
Investigador A1  
Instituto Español de Oceanografía  
Ministerio de Educación y Ciencia  
Corazon de Maria 8  
28002 Madrid  
Phone: (+34) 91 347 36 08  
Fax: (+34) 91 413 55 97  
E mail: [gregorio.parrilla@md.ieo.es](mailto:gregorio.parrilla@md.ieo.es)

Dr Juan A. CAMIÑAS HERNÁNDEZ  
Director  
Centro Oceanográfico de Málaga  
Instituto Español de Oceanografía  
Ministerio de Educación y Ciencia  
Puerto Pesquero  
296 Fuengirola  
Tel. (+34) 952 4781 48  
Fax. (+34) 952 4638 08  
E mail: [jacaminas@ma.ieo.es](mailto:jacaminas@ma.ieo.es)

#### **Syrian Arab Republic/République arabe syrienne**

Prof. Hawash SHAHIN  
Vice Dean of National Institute of  
Administration  
National Institute of Public Administration (INA)  
Ministry of Higher Education  
P.O. 12866 - Damascus  
or Université de Damas, Faculté de Droit,  
Département de Droit International  
Damas, Syrie  
Tel: (+963).11.594.8277, 594 82 70  
Fax: (+963).11.5948071  
Email: [info@ina-syrie.com](mailto:info@ina-syrie.com); [hawash@ina-syrie.com](mailto:hawash@ina-syrie.com)

## **Togo**

Dr Adoté Blim BLIVI  
Chercheur/ Professeur  
Docteur en Géomorphologie et Gestion du Littoral  
Université de Lomé  
Centre de Gestion Intégrée du Littoral et de l'Environnement  
Faculté des Lettres et Sciences Humaines  
Département de Géographie  
B.P. 1515 / 60047 Bè Lomé Togo  
Phone: (D/H) : (+228)227 08 50 / 270 77 11  
Cel: (+228)905 39 14  
Phone: (B/O): (+228)221 68 17/222 4865  
Fax: (+228)221 85 95  
Email: [adoblivi@hotmail.com](mailto:adoblivi@hotmail.com);  
[a.blivi@odinafrica.net](mailto:a.blivi@odinafrica.net); [cgileul@yahoo.fr](mailto:cgileul@yahoo.fr)

## **Tunisia/Tunisie**

Prof. Chérif SAMMARI  
Head of the Laboratory of the Marine Environment  
Institut National des Sciences et Technologies de la Mer (INSTM)  
28 Rue 2 Mars 1934  
2025 Salammbô  
Tel : (+216) 71 730 420/(+216) 71 277 735  
Fax : (+216) 71 7302 622  
Email: [cherif.sammari@instm.rnrt.tn](mailto:cherif.sammari@instm.rnrt.tn)

## **Turkey/Turquie**

Eng. Captain Ahmet TÜRKER (PhD)  
Head of the Technical Group  
The Department of Navigation, Hydrography and Oceanography  
34805 Cubuklu  
Beykoz Istanbul, 34805  
Tel: (+90).216.322.25.80 (ext 3000)  
fax: (+90).216.331.05.25  
Email: [ahmet@shodb.gov](mailto:ahmet@shodb.gov);  
[aturker05@yahoo.co.tr](mailto:aturker05@yahoo.co.tr)

## **United Kingdom of Great Britain and Northern Ireland/Royaume Uni de Grande Bretagne et d'Irlande du Nord**

Lt.Cdr. Roland ROGERS Rro(retired)  
Senior Defence Analyst (Environment)  
Room 251/08  
National Oceanography Centre Southampton,  
European Way  
Hampshire SO14 3ZH  
Tel: (+44).2380.596314  
Fax: (+44).2380.596142  
Email: [rjrogers1@QinetiQ.com](mailto:rjrogers1@QinetiQ.com)

## **United Republic of Tanzania/République-unie de Tanzanie**

Dr A.M. DUBI  
Director, Institute of Marine Sciences  
University of Dar es Salaam  
P.O. Box 668  
Zanzibar  
Tel: (+255 24) 223 21 28  
Fax: (+255 24) 223 30 50  
E-mail: [dubi@ims.udsm.ac.tz](mailto:dubi@ims.udsm.ac.tz)

## **United States of America/Etats Unis d'Amérique**

Captain J. Ashley ROACH  
Office of the Legal Adviser (L/OES)  
U.S. Department Of State,  
2201 C ST NW,  
Washington, DC 20520 - 6419  
Phone: (+1 202) 647 1646  
Fax: (+1 202) 736 7115  
Email: [roachja@state.gov](mailto:roachja@state.gov)

Mr Stephen R. PIOTROWICZ  
Deputy Director  
The National Office for Integrated and Sustained Ocean Observations (OCEAN US)  
NOAA  
2300 Clarendon Boulevard, Suite 1350  
Arlington, Virginia 22201-3667  
Tel: (+1-703).588.0850  
Fax: (+1-703).588.0872  
Email: [steve.piotrowicz@noaa.gov](mailto:steve.piotrowicz@noaa.gov)

Ms Melissa BRANDT  
U.S. Department of State  
Bureau of Oceans and International Environmental and Scientific Affairs  
Office of Ocean Affairs, OES/OA Room 5805  
2201 C Street NW  
Washington, DC 20520  
Phone: (+1 202) 647 3039  
Fax: (+1 202) 647 9099  
Email: [BrandtMN@state.gov](mailto:BrandtMN@state.gov)

## **Venezuela**

Mr Hernán PÉREZ NIETO  
Geólogo Marino  
Presid. Comisión Nacional de Oceanología  
Ministerio de Ciencia y Tecnología  
Av. Universidad Esquina El Chorro. Torre MCT  
Venezuela  
Phone: (+58) 212 2103565  
Fax: (+58) 212 2103653 / 0058 212 9856448  
Email: [pereznietoh@yahoo.com](mailto:pereznietoh@yahoo.com);  
[pereznietoh@cantv.net](mailto:pereznietoh@cantv.net)

### **Viet Nam**

Mr Nguyen TAC AN  
Prof. Director Institute of Oceanography  
President of National Committee of IOC for  
Vietnam  
Institute of Oceanography, 01 Cau Da, Nha  
Trang  
Khanh Hoa  
Tel. (+84) 58590035-590109  
Fax: (+84)58590034  
Email : [haiduong@dng.vnn.vn](mailto:haiduong@dng.vnn.vn);  
[ngtacan@dng.vnn.vn](mailto:ngtacan@dng.vnn.vn)

### **III. ORGANISATIONS**

#### **IOC-WMO-UNEP Intergovernmental Committee for the Global Ocean Observing System/Comité intergouvernemental COI- OMM-PNUE pour le Système mondial d'observation de l'océan (I-GOOS)**

Dr François GERARD  
President  
I-GOOS  
c/o METEO France  
1, Quai Branly  
75340 Paris Cedex 07  
France  
Tel. (+33) 1 45 56 70 22  
Fax (+33) 1 45 56 70 05  
Email. [François.gérard@meteo.fr](mailto:François.gérard@meteo.fr)

#### **Argo Information Centre/Centre d'information Argo**

Mr Mathieu BELBEOCH  
Argo Technical Coordinator  
JCOMMOPS 8-10 Rue Hermes  
Parc Technologique du Canal 31520  
Ramonville Cedex-France  
Tel (+33) 561 394730  
Fax (+33) 561 751014  
Email: [belbeoch@jcommops.org](mailto:belbeoch@jcommops.org)

#### **UN/OLA/DOALOS (United Nations/Nations Unies Office of Legal Affairs /Bureau des Affaires Juridiques Division for Ocean Affairs and the Law of the Sea/Division des Affaires Maritimes et du Droit de la Mer)**

Ms Alice HICUBURUNDI  
Law of the Sea/ Ocean Affairs Officer  
Train-Sea-Coast Programme Coordinator  
Division for Ocean Affairs and the Law of the  
Sea  
Office of Legal Affairs

United Nations  
2 UN Plaza; Room DC2-424  
New York, NY 10017  
United States of America  
Tel: (+1 212) 963-59 15  
Fax: (+1 212) 963-58 47  
Email: [hicuburundi@un.org](mailto:hicuburundi@un.org)

#### **World Conservation Union/Union mondiale pour la nature (IUCN)**

Mr Jamie SKINNER  
Director  
IUCN The World Conservation Union  
Centre for Mediterranean Cooperation  
Parque Tecnológico de Andalucía  
Calle Maria Curie, 35  
Sede Social Campanillas  
29590 Málaga  
Spain  
Tel: (+34) 952 028 430  
Fax: (+34) 952 028 145  
Email: [jamie.skinner@iucn.org](mailto:jamie.skinner@iucn.org)

Mr François SIMARD  
Marine Programme Coordinator  
The World Conservation Union (IUCN)  
Parque Tecnológico de Andalucía  
Calle Maria Curie, 35  
Sede Social Campanillas  
29590 Málaga  
Spain  
Tel: (+34) 952 028 430  
Fax: (+34) 952 028 145  
Email: [francois.simard@iucn.org](mailto:francois.simard@iucn.org)

Dr Philomène VERLAAN  
IUCN Commission on Environmental Law  
Attorney at Law and Oceanographer  
2 Tredegar Mews, London E3 5AF  
United Kingdom  
Tel (+44) 20 8981 1245  
Email: [tcipav@yahoo.com](mailto:tcipav@yahoo.com)

### **IV. IOC SECRETARIAT/ SECRETARIAT DE LA COI**

Professor Mario Ruivo  
IOC Vice Chairman  
Chairman, Portuguese Committee for IOC  
Av. Infante Santo-42/4th Floor  
Lisbon 1350-179  
Portugal  
Tel: (+351 21) 390 4330  
Fax: (+351 21) 395 22 12  
Email: [cointersec.presid@fct.mces.pt](mailto:cointersec.presid@fct.mces.pt)

Ms Aurora Mateos  
Technical Secretary for UNCLOS  
Intergovernmental Oceanographic Commission  
of UNESCO  
1 rue Miollis, Office B 430  
Paris 757757  
FRANCE  
Tel: (+33 1) 45683994  
Email: [a.mateos@unesco.org](mailto:a.mateos@unesco.org)

Ms Nora Mercadal  
Translator  
c/ Uruguay 888, p.4 « H »  
(C1015 ABR)-Capital Federal  
Buenos Aires, Argentina  
Tel, Fax: (+54 11) 4815-1506  
Email : [nefertari116@yahoo.com.ar](mailto:nefertari116@yahoo.com.ar)

**V. LOCAL ORGANIZING  
COMMITTEE/COMITE LOCAL  
D'ORGANISATION**

Mr Antonio Llaguno  
Secretario General de Políticas Ambientales  
Consejería de Medio Ambiente  
Junta de Andalucía  
Avda. Manuel Siurot, 50  
41013 Sevilla  
España  
Tel: (+34) 955 003493  
Fax: (+34) 955 003635  
E-mail: [sgpa.cma@juntadeandalucia.es](mailto:sgpa.cma@juntadeandalucia.es)

Ms Cecilia Gañán de Molina  
Directora General de Participación e  
Información Ambiental  
Consejería de Medio Ambiente  
Junta de Andalucía  
Avda. Manuel Siurot, 50  
41013 Sevilla  
España  
Tel: (+34) 955 003448  
Fax: (+34) 955 003795  
E-mail: [mcecilia.ganan@juntadeandalucia.es](mailto:mcecilia.ganan@juntadeandalucia.es)

Ms María Briones  
Unidad de Prospectiva Europea  
Dirección General de Participación e  
Información Ambiental  
Consejería de Medio Ambiente  
Junta de Andalucía  
Avda. Manuel Siurot, 50  
41013 Sevilla  
España  
Tel: (+34) 955 003727  
Fax: (+34) 955 003777  
E-mail: [maria.briones@juntadeandalucia.es](mailto:maria.briones@juntadeandalucia.es)

Mr Ignacio Trillo  
Delegado Provincial de Medio Ambiente de la  
Junta de Andalucía  
Delegación Provincial de Medio Ambiente  
c/ Mauricio Moro, 2, 3 y 4 planta  
Edificio Eurocom  
29006-Málaga  
Tel: (+34)-951040106-07  
Fax: (+34)-951040108  
Email: [delegado.ma.cma@juntadeandalucia.es](mailto:delegado.ma.cma@juntadeandalucia.es)

Ms Sonia Chacón  
Gabinete de Prensa de la Delegación Provincial  
de Medio Ambiente  
Delegación Provincial de Medio Ambiente  
c/ Mauricio Moro, 2, 3 y 4 planta  
Edificio Eurocom  
29006-Málaga  
Tel: (+34)-951040112 / 629637977  
Fax: (+34)-951040108  
Email: [sonia.chacon.ext@juntadeandalucia.es](mailto:sonia.chacon.ext@juntadeandalucia.es)



ANNEX VIII

**LIST OF ACRONYMS**

<b>Argo</b>	GODAE global profiling float project (not an acronym)
<b>CGTMT</b>	IOC Criteria and Guidelines on the Transfer of Marine Technology
<b>UN/OLA/DOALOS</b>	Division for Ocean Affairs and Law of the Sea, Office of Legal Affairs, United Nations
<b>EEZ</b>	Exclusive Economic Zone
<b>GMA</b>	Global Marine Assessment
<b>GODAE</b>	Global Ocean Data Assimilation Experiment
<b>GSSC</b>	GOOS Scientific Steering Committee
<b>GRA</b>	GOOS Regional Alliance
<b>ICSU</b>	International Council for Science
<b>IOC/ABE-LOS</b>	Advisory Body of Experts on the Law of the Sea (IOC of UNESCO)
<b>I-GOOS</b>	IOC-WMO-UNEP Intergovernmental Committee for the Global Ocean Observing System
<b>IMO</b>	International Maritime Organization
<b>IOC</b>	Intergovernmental Oceanographic Commission (UNESCO)
<b>IUCN</b>	World Conservation Union
<b>JCOMM</b>	Joint WMO-IOC Technical Commission for Oceanography and Marine Meteorology
<b>MSR</b>	Marine Scientific Research
<b>TMT</b>	Transfer of Marine Technology
<b>TMTA</b>	Transfer of Marine Technology Application
<b>UN</b>	United Nations
<b>UNCLOS</b>	United Nations Convention on the Law of the Sea
<b>UNEP</b>	United Nations Environment Programme
<b>UNESCO</b>	United Nations Educational, Scientific, and Cultural Organization
<b>UNGA</b>	United Nations General Assembly
<b>WMO</b>	World Meteorological Organization
<b>XBT</b>	Expendable Bathythermograph