INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION
(of UNESCO)

2012 IODE OFFICERS MEETING
Meeting by video conferencing hosted by the
IOC Project Office for IODE, Ostend, Belgium
30 January – 3 February 2012

SUMMARY REPORT
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Screenshot of the video conference (not all participants are visible)
1 OPENING OF THE MEETING

This was the first meeting of the IODE Officers entirely held by video conference. In order to accommodate the time spread between The east coast of the USA (Miami and Silver Spring) to Sydney, Australia it was decided to meet for one hour every day (7 am CET, 11 pm Sydney).

The meeting was opened by the Co-Chair Ms Sissy Iona and on 30 January. Capt. Ariel Troisi was unable to participate in the first day of the meeting.

The Co-Chair reminded the Officers that, taking into account the limited time available for this Session (5 hours over 5 days) it was essential to focus on decisions.

The Co-Chairs invited the Officers to review the Provisional Agenda for the meeting (Document IOC/IODE-OFF-2012/1), invite amendments and its adoption.

Throughout this document action status text is highlighted in yellow; decisions by the Officers are highlighted in blue.

>> The Officers adopted the agenda.

2 REVIEW OF THE IODE-XXI ACTION SHEET

2.1 EVENTS ORGANIZED SINCE IODE-XXI

This agenda item was introduced by the Secretariat (P. Pissierssens). Reference was made to Document IOC/IODE-OFF-2012/Item2.1 (List of events organized since IODE-XXI).

Linda: ODINPIMRIS Pacific Islands meeting. [Linda wil send words for document 2.1]

2.2 PROGRESS REPORT ON THE IODE-XXI WORK PLAN

This agenda item will be introduced by the Secretariat (P. Pissierssens). Reference was made to Document IOC/IODE-OFF-2012/Item2.2 (Progress report on the IODE-XXI work plan)

Mr Pissierssens highlighted items that have not been implemented.

2.2.1 RESOLUTIONS ADOPTED BY IODE-XXI

Recommendation IODE-XXI.1: THE UNESCO/IOC PROJECT OFFICE FOR IODE IN OOSTENDE, BELGIUM

STATUS: The Secretariat had received information that the renewal of support by the Government of Flanders for the IODE project Office has been approved. Arrangements for the renewal of the MoU will be taken shortly (probably February 2012)

Recommendation IODE-XXI.2: ESTABLISHMENT OF THE IODE STEERING GROUP FOR OBIS (SG-OBIS)

STATUS: The IODE Steering Group for OBIS has been established. It met for its first Session in Oostende, Belgium between 8-9 December 2011. The Group elected Mr Mark Fornwall as its Chair. The report will be made available shortly.

>> The Officers instructed the Secretariat to add a reference to the election of Mr Fornwall as Chair to the IODE web site.
Recommendation IODE-XXI.3: ESTABLISHMENT OF THE IODE GROUP OF EXPERTS ON OBIS (GE-OBIS)

**STATUS:** IOC Circular Letter 2398 was issued on 10 August 2011. Fifteen Member States submitted nominations. Four long-term members were selected from Barbados, USA, Ukraine and Kenya.

Recommendation IODE-XXI.4: THE IODE OBJECTIVES

**STATUS:** the objectives of IODE in the web page “IODE is...” have been updated.

Recommendation IODE-XXI.5: ESTABLISHMENT OF THE IOC PROJECT OFFICE FOR IODE/OBIS AT RUTGERS UNIVERSITY, N.J., USA

**STATUS:** The P-4 ALD position for an OBIS Programme Specialist was advertised on 20 September 2011 on the IODE web site as well as in various other web sites (see http://www.iode.org/index.php?option=com_content&view=article&id=285&Itemid=100016). The original deadline was 15 December 2011. This was later changed to 15 January 2012. As a result of the decision by the USA to stop payment of its assessed contribution to UNESCO after the UNESCO GC of October 2011 it was concluded that establishing the Office was not opportune at this time. This was confirmed in January 2012 when the impact of the USA on the UNESCO and IOC budget became clear: a reduction of 80% on the operational budget. This (the postponement of the establishment of the Office) was communicated to Rutgers and to the Chair of the SG-OBIS on 15 December 2011. In order to avoid immediate expulsion by the USA of Dr Edward Vanden Berghe IOC provided 2 months of salary to Rutgers University covering January and February 2012. The Chair of the SG-OBIS subsequently consulted with the SG-OBIS membership in order to formulate recommendations towards the continuation of OBIS. The Steering Group stated “we suggest for IOC/IODE to consider separating the roles of Project Office program administration from the maintenance of the technical infrastructure. This separation may provide a wider range of alternatives for maintaining OBIS. Furthermore, we request that we be included in a more active and transparent advisory role in the strategic decision-making process and selection of leadership positions.”. It was therefore agreed to split the work of the OBIS manager into 2 positions: one, to be located in Oostende (P-3) dealing with programme coordination, management and strategy, and a second at Rutgers University dealing with technical matters (quality control etc). The Secretariat reported that negotiations are on-going with Rutgers to find a solution. At the time of the meeting of the Officers the P-3 position was about to be recruited. I was expected that the position would be occupied by April/May 2012.

Recommendation IODE-XXI.6: ESTABLISHMENT OF THE IODE STEERING GROUP FOR THE OCEANDOCS PROJECT

**STATUS:** the Steering Group was established and its first meeting was held 24-27 January 2012 at the IOC Project Office for IODE, Oostende.

Recommendation IODE-XXI.7: PROGRAMME AND BUDGET FOR 2011-2013

The Officers decided that decisions on the revision of the Programme and Budget for 2012-2013 would be made under the relevant agenda items (agenda items 4-12).

### 2.2.2 ACTION ITEMS EXTRACTED FROM THE SUMMARY REPORT

Under this agenda item the Officers reviewed the status of actions decided upon during IODE-XXI.
3.3 FINANCIAL AND IN-KIND CONTRIBUTION REPORT

37 The Committee thanked China for this kind offer and instructed the Secretariat to discuss the administrative arrangements with China.

STATUS: DONE China has offered the secondment of Ms Du Qiongwei for a period of 8 months in 2012. Arrangements are being made for the secondment which is planned to start early February 2012.

4.1 REPORTS OF NODCs, DNAs AND MARINE INFORMATION CENTRES

51 The Committee instructed the Secretariat to make the following modifications in the survey mechanism for the next Session: (i) ensure that a PDF version of the survey is available online; (ii) ensure that a PDF version is generated after filling the online survey; (iii) provide a quantitative and trend analysis (including maps and charts) of the results as compared to previous inter-sessional periods; (iv) indicate whether distributed data centres respond faster or slower than centralized data centres; and (v) examine responses looking for patterns based on type of data centre (centralized or distributed), by region, or ease of connection to the Internet. It was noted that in the case of distributed centres it may be difficult to provide accurate aggregated information.

STATUS: ONGOING – to be prepared by IODE-XXII

5.2 PROPOSED REVISION OF THE IODE STRUCTURE TO ACCOMMODATE OBIS

88 The Committee instructed the Secretariat to prepare the additional required documentation as described in INF-1193 and to submit these, together with the relevant Recommendations to the 26th Session of the IOC Assembly.

STATUS: DONE

6.1.1 IODE GROUP OF EXPERTS ON BIOLOGICAL AND CHEMICAL DATA MANAGEMENT AND EXCHANGE (GE-BICH)

96 The Committee decided that a new Circular Letter should be issued. Member States that already nominated a candidate by 10 March 2011 will not need to re-submit and their nominations will be taken into account. The deadline for the nominations will be end of May 2011.

STATUS: DONE

98 The Committee urged GE-BICH to explore further collaboration with other projects, such as the SeaDataNet 2, which will have a strong biological component.

6.1.2 IODE GROUP OF EXPERTS ON MARINE INFORMATION MANAGEMENT (GE-MIM)

107 The Committee decided to include more MIM elements in the next version of the IOC Strategic Plan for Oceanographic Data and Information Management.

STATUS: NOT DONE This will be covered by the meeting of the IWG on the Strategic Plan (1-2 March 2012)

112 The Committee encouraged GE-MIM to enhance its collaboration with ODIN’s in order to strengthen activities at the regional level.
STATUS: **ONGOING** - This is continuous. GEMIM participated by sending MIM experts to the following Regional activities with the ODIN’s:

- ODIN PIMRIS Disaster management training and general planning session, Univ. S. Pacific, Fiji, May, 2011
- ODINCARSA OceanDocs Workshop, and Grantwriting for Digital Projects Mar del Plata, Argentina
- ODINECET Digitization of Rare Books and General MIM ECET Workshop, Sevastopol, Ukraine, September, 2011
- For ODINAFRICA and IAMSLIC African members Workshop on AgriOceanDspace Repository and general IODE Presentations, Zanzibar, October 2011
- ODINAFRICA Conference, presentations on E-Resources and Workshop on AgriOceanDspace, Lome, Africa, November 2011
- ODINPIMRIS workshop on Pacific Portal, March 2012

114 After considering Document IOC/IODE-MIM-XI/5rev, the Committee instructed the Secretariat to publish the “IOC Communications Strategy for Marine Information Management” in the relevant IOC series.

STATUS: **DONE** – Published as IOC/INF-1288 (28 April 2011)

6.2.2.2 Cooperation with SeaDataNet

162 The Committee welcomed the intentions of SeaDataNet-2 to include IODE as a direct partner in SeaDataNet-2, and urged SeaDataNet to collaborate with the IODE Project Office to ensure pertinent training material and other documentation should become part of the OceanTeacher resources.

STATUS: **NOT DONE** - Ms. Sissy Iona reported that within SDN2 there are several actions that interconnect with the work of IODE like submission of standards, training material, portal etc. There will be number of joint efforts. Mr Mikhailov reported that the task for ODP and SDN-2 interaction (technical specifications, software data exchange) was to be carried out under RHMI-WDC and IFREMER contract of SDN-2 activity. Detail consideration is planned on ODP Workshop (Feb, 2012) and next SDN TTG meeting (March, 2012).

6.2.3 Data Publishing (SCOR/IODE)

167 The Committee suggested that information on the planned meeting be widely distributed to encourage wider participation by IODE centres in this work.

STATUS: **DONE** – the 4th Meeting was held in Liverpool, UK, 3-4 November 2011 – The report is available as IOC Workshop Report No. 244

6.2.5 GTSPPP

184 The Committee recommended to GTSPPP, and other relevant IODE projects that are mentioned in the GCOS Implementation Plan to include a section in its reports that explicitly identifies activities that address GCOS actions

STATUS: **DONE** Added the following paragraph to the GTSPPP Web site and plan to include it in the future relevant GTSPPP reports. “The Global Climate Observing System (GCOS) recognizes the Global Temperature and Salinity Profile Programme (GTSPPP) as one of the international operational activities that provide essential, sub-surface climate variables of temperature and salinity profile data. GTSPPP provides timely and complete data with documented quality flags and implements internationally agreed quality control and overall management of ocean data fully in accordance with the GCOS action plan.”
6.2.6 GOSUD

The Committee recommended that national representatives support the project by distributing this report in their country and to identify potential contributors either by providing data to the project or by providing scientific or data management expertise that could enhance the quality of the GOSUD dataset and/or enlarge the network. First priority should be given to data derived from research vessels or merchant ships that operate on regular lines.

STATUS: NOT DONE - No active action has been done since IODE XXI to identify potential contributors. However, based on individual proposals the GOSUD network is still on the way of a smooth extension. Le Japan, through VOS Nippon – private foundation- provides on a regular basis data to GOSUD. Methods to elaborate delayed mode datasets are on the way to be implemented at the GDAC level.

>>> The Officers requested the Co-Chairs to contact Mr Loic Petit de la Villéon on this matter.

6.2.7 Marine XML

The Committee urged national experts to register in the SeaVox mailing list through contacting Dr Lowry.

STATUS: DONE - In the weeks following the meeting there was a clear positive response to the request and Dr Lowry was contacted by several interested parties from the IODE community who have now been added to the SeaVoX list bringing the total membership up to 107. Of course, any further interested parties are still welcome to get in touch.

The Committee instructed the chair of ETDMP, working closely with GE-BICH and as appropriate with the above noted groups, to determine the most appropriate mechanism for taking over the work of the SG-XML. This would include preparing Terms of Reference for the Pilot Project, changing the status of the project to a permanent status, and determining which of the ETDMP Task Team for ODS or the ETDMP Task Team for Metadata was the most appropriate group to carry the work forward. It was recalled that the ETDMP is a joint JCOMM/IODE body so decisions should be approved both by JCOMM and IODE. The Committee was informed that the next JCOMM Management Committee is scheduled for September 2011. The conclusions and recommendations by the ETDMP could be considered by the Management Committee at that time. Consequently, the work described should be completed before September 2011.

STATUS: NOT DONE. It was planned to consider at ETDMP-III meeting that was planned at 2011.

6.2.9 OceanDocs and Aquatic Commons

The delegate from France informed the Committee that France had performed an inventory of publications prepared after French scientific research cruises. The inventory is available in electronic form, and France is willing to share it with OceanDocs. The Committee accepted the kind offer.

STATUS: NOT DONE. Marc Goovaerts has not received these scientific research cruise inventory as of this date.

>>> The Officers requested the GE-MIM Chair to contact Mr Loic Petit de la Villéon on this matter.

6.2.10 OceanExpert

The Committee proposed that the over 4000 institutions referred to in the OceanExpert database should be linked to the SeaDataNet EDMO codes.

STATUS: ONGOING - Adi Kakodkar is investigating this and hopes to have an answer by the end of March 2012. The number of institutions is 5122 (Linda Pikula)
The Committee congratulated the GE-MIM with the progress made in the further development of OceanExpert and instructed the GE-MIM to further investigate the use of OceanExpert as a unique researcher ID server.

### 6.2.11 OpenScieceDirectory

The Committee expressed its appreciation to EBSCO and Hasselt University and urged them to continue this valuable product, which provides essential services to scientists in developing countries.

**STATUS: ONGOING**

>>> The Officers decided that this service should be continued and invited Hasselt University to continue its support.

### 7.1 OCEANTEACHER AND TRAINING ACTIVITIES

The Committee recognized the importance of the already existing training materials produced by SeaDataNet and invited SeaDataNet to work with the IODE Project Office to ensure these are entered in OceanTeacher.

**STATUS: ONGOING** - A SeaDataNet II training course will be hosted and organised at the IODE PO between 2-6 July 2012. The OceanTeacher platform will be used to host the course’s outline and training materials. The input/upload of previous SeaDataNet courses into OceanTeacher will be discussed at the same time as preparations are done for the July course.

>>> The Officers requested the Co-Chair (Ms Iona) to call on SeaDataNet to loading of SDN training materials in OceanTeacher.

The Committee also remarked that training materials from other projects (e.g. Black Sea Scene, Cruise Summary Reports, and other ODIN regional training documents), when available, should also be provided to OceanTeacher.

**STATUS: NOT DONE** - The Steering Group for OceanTeacher decided that OT will provide the necessary information on how to upload Cruise Summary Reports (CSR) to interested authors. Furthermore, OT informed COMET that OT can make COMET’s training materials available on its website.

>>> NO DECISION

The Committee recognized that internet connectivity and bandwidth problems persist in some countries, which hinders access to OceanTeacher content. The Committee instructed the Steering Group for OceanTeacher to investigate possibilities for making the digital library and/or the classroom available in offline version.

**STATUS: ONGOING** - See document IOC/IODE-Off-2012/ITEM5

The Committee, taking into account the needs of start-up data and information centres, instructed the Steering Group for OceanTeacher to consider developing case-study materials as well as step-by-step training materials (e.g. for the setting up of databases).

**STATUS: ONGOING** - See document IOC/IODE-Off-2012/ITEM5

>>> The Officers recommended that GEs should identify manuals that need to be updated. We can then work from that.
7.2.1 ODINAFRICA

The Committee commended ODINAFRICA on their accomplishments and encouraged the member states to explore the possibility of providing the expertise [for development of scenarios, forecasts and predictions, as well as “outreach and communication tools”] required.

STATUS: NOT DONE - No offers of the required expertise has been received. We welcome proposals of institutions/experts who can be approached on this.

>>> The Officers requested the ODINAFRICA coordinator to contact Member States to repeat the request.

The Committee was informed that ODINAFRICA will be holding a Symposium on the Contribution of Ocean Data and Information Management to Sustainable Development, 4-6 October 2011, Saly, Senegal. The Committee urged ODINAFRICA participating countries as well as other IOC Member States to participate actively in the event.

STATUS: DONE - The ODINAFRICA Scientific Symposium was held in Saly-Mbour, Senegal from 30 November - 01 December 2011 and attended by more than 90 participants from 24 countries. The theme of the symposium was the "Contribution of Ocean Data and Information to Sustainable Development in Africa". There were 30 oral presentations and 53 posters presentations under the following topics: (i) Coastal and Ocean Circulation, (ii) Ecosystem Health and Coastal Hazards, (iii) Management of Coastal Resources, (iv) Coastal Erosion, (v) Climate Change, and (vi) Marine Data and Information Sources. Following the success of the symposium a second symposium is planned for 7-9 May 2013 in Maputo, Mozambique.

7.2.2 ODINCARSA

The Committee commended ODINCARSA for developing a work plan that included performance indicators and requested that all the ODIN’s prepare similar work plans for future sessions of the Committee. Reports submitted should also indicate how the indicators have changed during the reporting period. The Committee noted that the ODINCARSA Marine Information Management has done a good job in populating OceanDocs.

STATUS: ONGOING - action required by IODE-XXII

7.2.3 ODINCINDIO

The Delegates of India and Thailand confirmed their willingness to support any activities to revive ODINCINDIO, including the organization of a meeting of representatives from the region during the 26th session of the IOC Assembly. The Committee instructed the Secretariat to make the arrangements for this meeting.

The Committee designated India as the Interim Coordinator for ODINCINDIO.

STATUS: NO ACTION - Dr Pattabhi Rama Rao (by email) informed the Officers that No action has been taken since IODE-XXI. The action was linked to the action listed in Para 269. No information has been received from the secretariat about the meeting of representatives from the region during 26th session of IOC Assembly (it had not been possible to organize a side meeting during IOC-XXVI). It was proposed to take a survey of training requirements from ODINCINDIO member states before the IOGOOS Annual Meeting scheduled in Nov 2012 and to discuss the action plan during the meeting. Further, INCOIS as part of its proposed International Training Centre for Operational Oceanography would like to extend the courses of IODE to a limited number of participants from the ODINCINDIO through the Telepresence Facility at INCOIS. INCOIS have already initiated activities to test the connectivity between INCOIS and IODE Oostende as part of the Global Class Room concept for the Marine GIS Course to be organised at IODE Project office during March 19-23, 2012.
271 The Committee noted that the INCOIS proposal for a regional training centre for operational oceanography could provide the impetus required for re-activation of ODINCINDIO.

>>> The Officers regretted that it had not been possible to revive ODINCINDIO after the IOC Assembly but also welcomed the planned establishment of ITCOocean which could be a stimulus to restart ODINCINDIO.

7.2.5 ODINWESTPAC

283 The Committee approved a work plan to accelerate the development of ODINWESTPAC with the following elements: (i) re-confirmation of the national focal points for data and information management. The Committee requested the IODE Project Office and the secretariat for the IOC’s Sub Commission for WESTPAC to assist in getting the member states from the region to identify/confirm the national focal points for data and information management to reconstitute the coordination working group for the ODINWESTPAC; (ii) Survey on training requirements for the region, and availability of trainers from the region and the topics that they are able to cover; (iii) organization of ODINWESTPAC Coordination working group meeting, to be hosted by China in August 2011; (iv) organization of training course(s) based on regional requirements, as identified during the survey, and approved by the ODINWESTPAC regional coordination meeting; (v) training on Ocean Data portal, and support for the development of ODP nodes in the region; (vi) organization of the second regional coordination working group meeting in 2012.

STATUS: NO ACTION - No information had been received from the ODINWESTPAC coordinators (Mr Wenxi Zhu, Prof. Lin Shaohua)

>>>> The Officers, while noting with regret the lack of progress with ODINWESTPAC, noted that the secondment of Ms Du Qiongwei to the IOC Project Office for IODE starting in February 2012, would provide an opportunity to re-activate ODINWESTPAC. In this regard the Officers requested the Secretariat to send regular progress reports. The Officers also requested that the secondment should focus on activating participation of China (and the WESTPAC member states) in OceanDocs).

7.2.6 ODINBlackSea

290 The Committee stressed the need to ensure that the ODINBlack Sea products can be accessed through the ODINBlackSea website.

STATUS: DONE

7.3.1 ITCOocean

319 The Committee strongly welcomed the initiative of India and called on the Assembly to accept the offer, stressing that the proposed Centre complies with the IOC Capacity Development Strategy which focuses on self-driven initiatives, and that the Centre will contribute substantially to the region’s capacity in operational oceanography and related data and information management. The Committee further welcomed the proposed close collaboration between the Centre and IODE’s OceanTeacher.

STATUS: the proposal was adopted by the Assembly. The MoU/LOA between IOC and INCOIS is being prepared.

7.3.2 Emerging needs in Capacity Building

324 The Committee decided that:
(i) both the top-down and the bottom-up approach should be continued;
(ii) that surveys to ascertain training needs be conducted prior to the IODE committee meetings and these surveys be incorporated in the national surveys prepared prior to IODE Committee Sessions, and that the results be presented at the IODE Committee Sessions;
(iii) that the surveys should be organized in October/November to allow time for any required national consultation on the requested information;

**STATUS:** to be prepared for IODE-XXII

325 **The Committee further instructed** the Secretariat to undertake a survey of potential clients of the training courses to find out their numbers (and demography) and what percentage has benefited from the training.

**STATUS:** NOT DONE - The new Alumni system available at the IODE website (http://iode.org/index.php?option=com_oe&task=countryReports&Itemid=100005) gives reports of courses attendance by country/year/course-training event. Data on demography (age and sex) is available but reporting on that is not automatically available. A survey of potential OTA clients has not been done yet. This survey will need the collaboration of all MS through both NODC’s and Libraries. Other potential OTA clients will need to be surveyed (POGO, GOOS, COMET, EUMETSAT, etc).

326 **The Committee further identified** the need for preparing a long term (5 years) training plan and **tasked** the IODE Steering Group for OceanTeacher to carry out this work.

**STATUS:** The 2nd Session of the SG-OceanTeacher was held in Miami, 11-15 April 2011. The report is available as [IOC/IODE-SG-OT-II/3](http://ioc-oceanteacher.org).

328 **The Committee recommended** that key operational manuals focused on capacity building and hosted by the IOC/IODE should be updated using the best technological method available (possibly wiki technology), within a committee-led editing and review structure and expanded to include best practice guidelines and case studies.

**STATUS:** NOT DONE - The relevant operational manuals focused on capacity building in need of updating will need to be identified, namely by the different IODE groups of experts. Reviewers/authors from the different IODE groups will need to be assigned. OTA and OTA editors will assist with editing and reviewing as well as with the technical details for using the Digital Library as repository.

>>> The Officers noted that there had been an error in the IODE-XXI report as the Manuals referred to IODE manuals such as the IOC M&G No.5.

7.4 **IODE ACTIVITIES IN THE IOC CAPACITY DEVELOPMENT FRAMEWORK (AND ROLE OF THE IOC PROJECT OFFICE FOR IODE)**

335 **The Committee expressed its appreciation** for the offer by China [to assist in establishing an IODE regional training centre] and **instructed** the Secretariat to discuss this matter further and to make the necessary arrangements to facilitate the establishment of the training centre.

**STATUS:** NOT DONE - The Secretariat communicated with Prof. Lin as well as with Dr Shi, Vice-President of NMDIS. Interest was expressed but no concrete agreements were made so far.

>>> The Officers noted that this should also be covered under the secondment of Ms Du Qiongwei.

8.1 **REPORT ON THE FOLLOW-UP OF THE IODE REVIEW**

338 **The Committee recalled** that Mr Robert Keeley had been a member of the OOPC. In this capacity he was able to provide a report on IODE to leading experts in ocean science. **The Committee requested** the IODE Co-Chairs to contact Dr Albert Fischer at the IOC Secretariat to inquire if another data management expert from IODE would be considered for an invitation to the next OOPC meeting.

**STATUS:** DONE - The secretariat contacted Dr Fischer in May 2011. He responded: “OOPC doesn’t have a formal ex-officio IODE slot in its Terms of Reference, but would be happy to rely on your
advice for the best representative that can sit between the worlds of data management and use of data in the climate community”.

339 Following the example of IPY and SCAR, the Committee recommended that papers should be presented at scientific conferences describing where data are archived and how they are available through the IODE system.

**STATUS: NOT DONE** – it is unclear what action can be taken here.

>>> The Officers concluded that no action was required anymore and closed the item.

340 The Committee recommended that papers on IODE be submitted for the IPY and SCAR conferences planned for 2011.

**STATUS: NOT DONE** – it is unclear if anyone has followed-up on this.

>>> The Officers concluded that no action was required anymore and closed the item.

### 8.2 IODE ARRANGEMENTS FOR THE LONG-TERM SECURE ARCHIVAL OF DATA AND INFORMATION

358 The Committee established an inter-sessional working group. The terms of reference of the Group were defined as “Description of the new IODE data and information system and its linkages with other systems (one part will focus on WDS)”. It was noted that the Group would also deal with the revision of the IOC Strategic Plan for Oceanographic Data and Information management. The membership was discussed under Agenda Item 11.

**STATUS: ONGOING** – See documents IOC/IODE-Off-2012/7 and IODE Quality Management Framework for National Oceanographic Data Centres

>>> The Officers noted that of the three IWGs established during IODE-XXI two have identical terms of reference. The Officers therefore decided that there should be only two inter-sessional working groups: (i) Inter-sessional working group for updating the IOC Strategic Plan for Oceanographic Data and Information Exchange (2012-2015); and (ii) Inter-sessional working group to identify a set of quality management criteria for IODE NODCs taking into account those defined for the WDS.

### 8.3 JCOMM AD HOC TASK TEAM ON RNODCS AND SOCS

365 The Committee approved the proposal and requested the ad hoc Task Team to draft a Recommendation for JCOMM-IV, including ToR of such centres, as well as background information and requested the Chair of JCOMM DMCG to keep the Committee informed of progress on the integration of these centres.

**STATUS: ONGOING** – The ad hoc Task Team for the RNODC/DB (ISDM Canada) and SOC/DB (Meteo France) integration had recommended that the two Centres become Global Data Assembly Centers (GDACs) for all drifting buoys – in a similar role that the Argo and OceanSITES GDACs server for their programs. During the MCDS Workshop, the ad-hoc group discussed how existing entities could be organized within the new MCDS. From the IODE perspective it was pointed out that IODE intention is to re-address the issue of the former RNODCs. The ad hoc Task Team would like the Officers to consider a new name/function (such as IODE Global Data and information Assembly Center-GDAC). Also Meteo-France proposed to become a Real Time DAC or GDAC for surface marine observations (drifters included).

This item will covered further under agenda item 8.3.
8.4 IODE DATA AND INFORMATION CENTRES QUALITY MANAGEMENT AND CERTIFICATION

The Committee established an inter-sessional working group that will “identify a set of quality management criteria for IODE NODCs taking into account those defined for the WDS”. The initial membership of the Group will include Argentina, Australia, Belgium (both NODCs), Canada, Chile, China, France, Germany, Greece, India, Japan, Korea, Mexico, The Netherlands, Russian Federation, Tanzania, Turkey, Ukraine (both NODCs), United Kingdom, United States. This group will communicate by email. The Committee designated Mr Greg Reed (Australia) to lead the work of the Group.

STATUS: ONGOING - See documents IOC/IODE-Off-2012/ITEM7 and IODE Quality Management Framework for National Oceanographic Data Centres

9.3 COOPERATION WITH POGO

The Committee welcomed the cooperation between IODE’s OceanTeacher and POGO, and recommended that the cooperation be formalized, possibly through a MoU.

STATUS: ONGOING The Secretariat participated in POGO-13 in Honolulu, Hawaii, 9-11 January 2012. IOC was well received and cooperation was invited on CoE Bermuda and OceanTeacher Academy in general. POGO also expressed interest in cooperating in the planned OTA Global Classroom. A formalization of the cooperation is planned.

9.6 COOPERATION WITH EUMETSAT

The Committee welcomed the cooperation with EUMETSAT through joint training courses and recommended the creation of a discussion forum and possibly to organize a meeting involving EUMETSAT, ODIN coordinators/technical experts and ODP technical experts to further discuss the possible cooperation between EUMETSAT and IODE.

STATUS: NOT DONE - A EUMETSAT training course was organised and hosted at the IODE PO in 5-9 December 2011. This was a specially IT demanding training course, but also a very successful one. The possibility of organising another training course is under discussion (eventually end of 2012), and the extension to other initiatives such as GOOS has been proposed. The creation of a discussion forum and the organization of a meeting involving EUMETSAT, ODIN coordinators/technical experts and ODP technical experts should be prepared before the IODE-XXII.

>>> The Officers decided that setting up of a discussion forum was not necessary and closed this item.

9.10 IOC OCEANOGRAPHIC DATA EXCHANGE POLICY: IMPLEMENTATION BY MEMBER STATES AND COOPERATING PROGRAMMES

The Committee expressed concern about the 16% of respondents who answered “don’t know” and the 23% who answered “no” and noted that answers like “don’t know” possibly resulted from partial application of the Policy whereas the “no” could possibly refer to non-IOC programmes. The Committee instructed the Secretariat to contact Member States who answered “don’t know” and “no” in order to qualify their answer. The Committee also instructed the Secretariat to improve the survey further by including comment boxes in the cases of “no” and “don’t know” answers.

STATUS: NOT DONE – need to identify who can do this –

>>> The Officers noted that obtaining this information now would not serve a purpose. Instead the Officers decided that the questions should be revised to ensure more detailed responses. In addition we should assess whether NODC heads and IOC focal points are familiar with the IOC data policy. The new accreditation requirements for NODCs will require mandatory adherence to the IOC Oceanographic Data Exchange Policy for accreditation.
10.1 IODE WEB SITES, BROCHURES, POSTERS AND PUBLICATIONS

The Committee was informed that a QC manual had been received from MyOcean which had been offered for publication by IODE in the IOC Manuals and Guides series. The Committee requested the Secretariat to publish this document as soon as possible.

STATUS: NOT DONE – we were informed on 20 April that the manual had to be reviewed by Gary BRASSINGTON, chair, Expert Team on Operational Ocean Forecast Systems (ETOOFs), before we print it as an IOC manual. No information was received since then. Within the framework of GMES FP7 European Project “MyOcean”, a document has been prepared on the real-time quality control checks of Temperature and Salinity in operational oceanography. The document is describing existing methods and procedures that are already applied in major National and International Projects, Data Centres and Institutes and its purpose is to uniform the existing QC among the operational community.

The idea is to publish JCOMM catalogue of practices and standards (http://bestpractice.iode.org/) contributing thus to WIGOS.

ScMay a email message was sent to Gary Brassington, the Chair of ETOOFS, asking for approval but with no reply. Very recently, he was reminded again by a new email message.

>>> The Officers decided that the manual should be published as an IOC M&G (under IODE) but that we should wait for formal agreement from the ETOOFS Chair (Gary Brassington). In this regard it was recalled that the IODE Co-Chair had sent two reminders to Dr Brassington.

The Committee decided that the Proceedings of the IODE 50th anniversary international conference should be published including the full papers as well as extended abstracts for posters. The Committee requested Greece to take the role of Editor of the Proceedings. The Proceedings should be published before the end of 2011.

STATUS: NOT DONE – No action has been taken 2011. If the Officers agree, it can be done within 2012 by circulating an email message to the IODE Conference participants asking for full papers submission and extended abstracts for posters. The Officers should also clarify if the Proceedings should be published electronically or in printed form.

>>> The Officers decided that the Proceedings should be published in 2012 and invited HNODC to proceed with this. The Officers decided that the Proceedings should be published electronically only. The Officers decided that HNODC will be assisted by Ms Linda Pikula, Dr Malika Bel Hassen Abid and Mr Greg Reed. The Officers decided that the Proceedings should be published before IODE-XXII.

11. IOC STRATEGIC PLAN FOR OCEANOGRAPHIC DATA AND INFORMATION EXCHANGE (2012-2015)

The Committee established an inter-sessional working group, which will have the objective of updating the Strategic Plan. This will include the description of a new IODE data and information system and its linkages with other systems (one part will focus on WDS). (see also Agenda Item 8.2). The Committee requested that the results of OceanObs’09 would be taken into account.

The Committee decided that the initial membership will include Argentina, Australia, Barbados, Belgium (both NODCs), China, Germany, Greece, India, The Netherlands, Russian Federation, Ukraine (both NODCs) United States, Chair GE-MIM, Chair GE-BICH, Chair GE-OBIS, Chair ETDMP, Chair JCOMM DMCG. The Group will be led by Australia with assistance from the United Kingdom.

The deadline to complete the work is March 2012. It was decided that a meeting will be required to compose the document. Member States were invited to self-fund their participation.
The Officers noted that errors had crept into paragraphs 422 and 423. In para 422 the words “This will include the description of a new IODE data and information system and its linkages with other systems (one part will focus on WDS). (see also Agenda Item 8.2).” needed to be removed.


### 13. REQUIRED RESOURCES AND PLAN OF ACTION FOR 2010-2011 (CURRENT UNESCO BIENNIAL 2010-2011) AND 2012-2013 (NEXT UNESCO BIENNIAL)

431 **The Committee instructed** the Co-Chairs to bring to the attention of the IOC Assembly again the need to diversity the sources of extra-budgetary funding, recalling that 90% of the extra-budgetary funding for IODE (excluding OBIS) is still provided by one Member State (Government of Flanders, Kingdom of Belgium). **The Committee also reiterated** its request to Member States to second experts to the IOC Project Office for IODE, to ensure that the necessary expertise is available there. Alternative Member States could assist IODE by hosting regional events such as training courses and co-funding participants.

**STATUS:** DONE –

432 Referring to the adoption by IOC of OBIS within IODE, **the Committee urged** Member States to provide additional financial and in-kind support, and **called on** the UNESCO Director-General to create a Professional Position for the OBIS Programme Specialist, in order to ensure the long-term sustainability of this important new IOC/IODE activity.

**STATUS:** NOT DONE – no professional position has been created for OBIS and due to the financial crisis this will not happen in the biennium 2012-2013. Canada is in the process of providing funds for OBIS in 2012. No other contributions have been pledged so far.

### 3 DECISIONS OF IOC-XXVI RELATED TO IODE

433 The Co-Chair (Ms Sissy Iona) was invited to briefly report on the outcome of IOC-XXVI regarding IODE referring to Document IOC/IODE-OFF-2012/ITEM3. The Assembly adopted, under agenda item 7.2, Resolution XXVI-10 (International Oceanographic Data and Information Exchange (IODE)).

>>> The Officers noted the decisions of IOC-XXVI related to IODE

### 4 STATUS OF THE IODE PROGRAMME

#### 4.1 IODE GROUPS OF EXPERTS

**4.1.1 GE-BICH**

This Agenda item was introduced by Mr Sergey Konovalov. He reported briefly on progress of the GE-BICH work plan. It was recalled that the GE-BICH requested US$ 30,000 for the 2nd GE-BICH workshop on QC/QA (+ ad hoc GE-BICH meeting) to be held in 2012. In the revised budget this amount has been maintained. The meeting is planned for October/November 2012.

>>> The Officers approved the revised workplan and budget for the GE-BICH

**4.1.2 GE-MIM**

This Agenda item was introduced by Ms Linda Pikula. She briefly reported on progress of the GE-MIM work plan and on issues that required action by the Officers. It was recalled that the GE-MIM had requested funding for its 12th Session in 2011. This was shifted to 2012. In the revised budget an amount of USD 10,000 has been allocated for the Session. It was noted that this may not be sufficient to
invite the current 6 members. The GEMIM Chair asked for additional US$ 3,000 for the GE-MIM-XXI Session in March 2012.

>>> The Officers approved the revised work plan and budget for the GE-MIM and decided, if funds are available, to add US$ 3,000 to the budget allocated for GE-MIM-XII

4.1.3 JCOMM/IODE ETDMP
This Agenda item was introduced by Dr. Nikolay Mikhailov. He reported on progress of the ETDMP work plan and on any issues that require action by the Officers. He referred to Document IOC/IODE-Off-2012/item 4.1.3.

4.1.3.1 The IODE/JCOMM Standards Process
The success of ODS process is highly dependent on active participation of all IOC Member states, Programmes and related organizations by submitting suitable standards for consideration. The process of receiving recommended standards from Member States has been very slow. An important role could be played by ODS in the SeaDataNet Technical Task Team which had been invited to consider submitting the Sea Level Quality Control, Cruise Summary Report (CSR), SeaDataNet device categories -L05 and ODV4 in ASCII format as ODS standard submissions. It was noted that the ETDMP could also play a more proactive role in soliciting standards submissions. The Officers were informed that the meeting on ODS scheduled by IODE-XXI for 2011, had not taken place. It had been rescheduled to 2012 and will take place at the IOC Project Office for IODE, Oostende, between 23-25 April 2012.

>>> The Officers recommended that the ODS process should be used for the benefit of ODP and proposals should be actively submitted by ODP to ODS.

>>> The Officers, noting that a proposal for latitude/longitude had been prepared by Greg Reed some time ago but had not been submitted to ODS, requested Mr Reed to urgently finalize and submit the proposal to ODS.

>>> The Officers, noting the importance of standards to ODP, request Dr Mikhailov to prepare a number of proposals related to ODP, to ODS.

>>> The Officers requested Mr Ariel Troisi, to promote ODS during the upcoming meeting of the Argo Steering Team (20-23 March 2012)

4.1.3.2 Metadata management
The ETDMP Task Team on metadata management, Chaired by Ms Nicola Scott (UK) was tasked to compare semantic metadata profiles (MCP, SeaDataNet CDI, WMO Core) and make recommendations for better interoperability. Progress has been made with regard to defining a structure and performing profile comparisons. These results are planned to be used for the development of the ODP interoperability.

4.1.3.3 The Ocean Data Portal
This topic was discussed in detail under agenda item 4.2.1

4.1.3.4 Next Session of the ETDMP
It was recalled that the ETDMP had requested US$ 10,000 for its 3rd Session in 2011. This was subsequently shifted to 2012. Unfortunately WMO has not been able to allocate funds for a Session in 2012. In the revised budget the Session has therefore been shifted to 2013 with a budget of US$ 10,000, assuming that WMO will contribute a similar amount.

>>>>>> The Officers approved the revised work plan and budget and called on WMO to contribute co-funding for meetings and activities of the JCOMM/IODE ETDMP
4.1.4 GE-OBIS

This agenda item was introduced by the Secretariat (P. Pissierssens). The Officers were informed that IOC Circular Letter 2398 was issued on 10 August 2011. Fifteen Member States submitted nominations. Four long-term members were selected from Barbados, USA, Ukraine and Kenya. Whereas a meeting of the GE was planned during the 2012-2013 biennium this item has (provisionally) been removed from the work plan due to the substantial Regular Programme budget cut. It was recalled that IODE-XXI had allocated an amount of US$ 18,000 in 2012 for the 1st Session of the GE-OBIS. In the revised budget this has been removed.

>>> The Officers approved the revised work plan and budget for the GE-OBIS while inviting IOC Member States to provide additional financial resources for OBIS.

4.2 IODE GLOBAL PROJECTS

4.2.1 IODE OCEANDATAPORTAL

This Agenda item was introduced by Dr Sergey Belov. He reported on progress of the ODP work plan and on any issues that require action by the Officers. He referred to Document IOC/IODE-off-2012/item4.2.1.

At this moment a total of 12 data providers have installed but only 6 from them operates. The ODP provides access to 56 data sets (corresponding with over 1,000,000 profiles). Below is given the detailed information about ODP V1 and its distributed data network.

- USA (US NODC): This node is planned to operate via Light Data Provider function provided IODE PO/VLIZ Data Provider. New data contribution is dependant on the Light Data Provider upgrade (to fulfill the automatic GTSSP inventory catalogue update) and that function is under development.
- Canada (ISDM): Surface drifters data has been submitted.
- Japan (MIRC): Not operational.
- IMOS: No actions have been undertaken.
- Latin America: After the training courses held in July 2011 (Buenos Aires, Argentina) and installation of the IODE ODP Argentina node (Integration Server, Light Data Provider, Portal services) the Ministry of Science, Technology and Production Innovation (MINCyT) in Argentina took the lead in the establishment of the national data provider nodes and further contribution to the IODE. The future data providers will be identified by the Ministry’s Information Systems Department and from other centers that produce sea data such as the National Research Institute on Fishery (INIDEP), the Argentinean Antarctic Institute, and some Research Institutes and Universities with oceanographic research activity. The first Argentinean Data Provider in Patagonia (CENPAT) has been established. The process is now pending on the renovation of the hardware in the MINCyT.
- China: No actions have been undertaken. The existing infrastructure for the Data Provider is not sufficient to host the ODIN Westpac ODP regional node.
- UK: The MetOffice Data Provider has been upgraded in the end of 2011 to the latest software version along with the Light Data Provider and is functional.
- ODINBlackSea: MHI – drifter profile data has been submitted; BGODC/IO-BAS – no new data supplied, not operational; LaMIS/IBSS – no new data supplied, not operational; GDNA – no new data supplied; NODEC/NIMRD – no data supplied at all;
- GEOSS: Interoperability test between EuroGEOSS broker system and IODE ODP has been completed successfully in the beginning of January 2012. The ODP provided CSW with a number of metadata records in ISO 19139 format. Results can be found at http://www.eurogeoss-broker.eu (“IODE” tree node)
- SeaDataNet: No actions have been undertaken. It is planned to make progress during the ODP Workshop (Feb, 2012) and TTG SDN-2 meeting (March, 2012).
4.2.1.1 IODE Ocean Data Portal (version 2) status

In 2011 the ODP V2 alpha version components have been developed (Integration Server, Data Provider, Portal, Service Bus, DataCache and etc.) moving the ODP services to a new level. The interoperability test between ODP and GEOSS, ODP and WIS were successfully presented.

The Officers inquired about the possibility to serve Argo data through ODP. Dr Belov informed the Officers that some technical issues had delayed this service but that Argo would be using the LDP (Light Data Provider) service provided by the Oostende Office shortly.

Mr Troisi suggested that an ODP v.2 demonstration could be organized during the Argo steering team meeting, 20-23 March 2012.

>>> The Officers urged the ODP team to urgently ensure that Argo data are also available through ODP.

>>> The Officers requested the ODP team to make arrangements for a live demonstration of ODP v.2 during the Argo steering team meeting, and requested Mr Troisi to arrange for this demonstration with the Argo meeting organizers.

The Officers inquired whether an ODP v.2 live demonstration would be possible at JCOMM-IV. Dr Belov informed the Officers that this could indeed be arranged.

>>> The Officers requested that a live ODP v.2 demonstration should be organized at JCOMM-IV and requested Ms Sissy Iona (IODE Co-Chair and Chair JCOMM DMCG) to send a request to the JCOMM-IV organizers to make available space and time for this demonstration.

Dr Mikhailov noted that the ODP v.2 architecture called for a distributed rather than centralized architecture and was therefore very similar to the WIS. As such he called for Member States to consider hosting and maintaining regional ODP nodes. The Oostende node could then be the global node and regions could host regional nodes.

>>> The Officers called on Member States to consider hosting and maintaining regional ODP nodes.

>>> The Officers instructed the inter-sessional working group on the strategic plan to take into account ODP in the revised strategic plan.

It was recalled that IODE-XXI allocated US$ 10K in 2012 for ODP v.2 development as well as US$ 5K in 2012 for the development of ODP nodes in Africa, and US$ 5K for the development of an ODP node in Latin America. In the revised budget the ODP v2 development allocation has been reduced to US$ 4K in 2012 and 5K in 2013. The responsibility for developing ODP nodes in Africa has been transferred to the ODINAFRICA project and increased to US$ 40K. No allocation is provided for Latin America. An amount of US$ 5K has been allocated for a technical workshop on ODP (to be held in Oostende between 27 and 29 February).

>>> Taking into account the offer of Russia to establish and host a “National Support Centre for IODE/ODP” the Officers decided to re-assign the funds allocated for “ODP software development” to seminars, workshops and other training activities related to ODP.

>>> The Officers noted that OBIS was an important new data source for ODP and instructed the Secretariat to invite an OBIS expert to participate in the upcoming technical workshop on ODP.

>>> The Officers approved the revised work plan and budget for ODP, as modified by the Officers.

4.2.1.2 Establishment of a National Support Centre for IODE/ODP in Obninsk

This Agenda item was introduced by Dr Nikolay Mikhailov. He referred to Document IOC/IODE-Off-2012/item4.2.1 and its Appendix A. He informed the Officers that the National Oceanographic Committee of the Russian Federation had agreed to offer to IOC/IODE to establish an IOC Project Office for IODE ODP. Taking account the formal requirements related to Project Offices as well as the offer of Russia the title of such “office” was changed to “IOC Project Support Centre for IODE ODP”.
The timeline for the establishment of the IOC Project Support Centre for IODE ODP would be as follows:
1- Consultations between IOC/IODE Secretariat and also Russian (January 2012)
2- IODE Officers meeting to consider the offer (31 January – 3 February, 2012)
3- MoU and business plan draft for discussion with Roshydromet (middle of February 2012),
4- Discussions on MoU and business plan draft during Technical Workshop on ODP (27-29 February 2012)
5- Consultations with IODE Officers to draft a DR for the upcoming EC of June 2012 ;
6- IOC EC June 2012 to adopt Resolution,
7 - MoU signing by September-October of 2012
8- Official opening of the Office: early 2013 (taking account the funding from Roshydromet)

The Officers were further informed that the contribution of the Russian Federation will include:

(i) Office space for three members of staff, with all furniture and amenities for normal office operations;
(ii) The cost of utilities (water, power, heating, air conditioning) and telecommunications (telephone, fax);
(iii) Use of a permanent high-bandwidth internet connection;
(iv) The cost of taxes levied on the physical facilities;
(v) The cost of cleaning, maintenance and insurance of the physical facilities;
(vi) The equivalent of three full time support staff position, divided over several members of staff as follows: (1) One half time ODP Head; (2) One full time data manager to carry out ODP distributed marine system supporting; (3) One full time software developer to carry out ODP software tools and specifications; (3) the equivalent of one half time position to assist the Support Project Centre with cooperation with IODE Project Office and Expert Group’s, interaction with other international marine data system.
(vii) Waiving of overheads on all funds that will be provided to the RIHMI-WDC for supporting the IOC Support Project Centre.

>>> The Officers expressed high appreciation for this substantial offer and recommended that it should be accepted. Accordingly they instructed the Secretariat to continue preparations for the submission of a Draft Resolution to the June 2012 Session of the IOC Executive Council.

>>> The Officers further requested Dr Mikhailov and Ms Iona to mention the possible establishment of the Support Centre during JCOMM-IV.

4.2.2 IODE/JCOMM OCEAN DATA STANDARDS

This agenda item was introduced by Mr Ariel Troisi. He reported on progress of the ODS work plan and on any issues that require action by the Officers. He recalled that two standards had so far been published. Two proposals were currently under review. Ne noted that more participation from Member States was needed, both in terms of submission of proposals and assistance in the review process.

Ms Iona noted that the SeaDataNet-II project has a deliverable on submission of proposals to the ODS. One proposal was submitted under SeaDataNet-I (CDI). This was later withdrawn as SeaDataNet was about to modify the CDI structure to make it compliant with ISO-19139. The new CDI would be submitted to the ODS in April 2012.

Mr Reed noted that the QC flag proposal, currently under review, was very important and needed to be finalized and published.
It was recalled that IODE-XXI allocated US$ 5K for a report by ODS to the ETDMP in 2011 and 2013. This allocation was not used in 2011. In addition a meeting of the ODS pilot project was scheduled in 2011 and 2012 with a financial allocation of US$ 15K for each meeting. No meeting was held in 2011. In addition US$ 5K/year was allocated in 2011 and 2012 for “Participation in meetings to promote ODS”. These funds were not used in 2011. In the revised budget an allocation of US$ 6K was included for meeting of the ODS pilot project in 2012 (planned for 23-25 April 2012) and the same for 2013. The other allocations have been removed.

>>> The Officers approved the revised work plan and budget, while calling for more active participation in, and support for, the ODS pilot project.

4.2.3 IODE OCEANTEACHER

This Agenda item was introduced by Dr Claudia Delgado. Reference was made to Document IOC/IODE-Off-2012/ITEM4.2.3 (IODE OceanTeacher). She reported on progress of the OceanTeacher work plan and on any issues that required action by the Officers.

The Officers were informed that in 2011 five OTA courses were organized. Two other previously scheduled courses were cancelled due to 1) low number of applicants and 2) inadequacy of the candidates’ profiles for the corresponding course. A course on Marine Spatial Planning was hosted at the Project Office and co-organized with ICAM (Paris HQ). One course from EUMETSAT was hosted at the PO. IODE/OTA collaborated with POGO and the Bermuda CoE organising 2 courses, and also an Accredited course with Ghent University. The Officers recalled that the 2nd session of the SG-OTA took place in April 2011, in Miami (see Document IOC/IODE-Off-2012/ITEM4.2.3). Subsequent to this meeting several improvements were made to the OceanTeacher website and Digital Library. A decision was taken to develop OceanTeacher e-learning possibilities. The candidates’ selection policy was adapted, currently being only 1 student fully funded per country, and other candidates from the same country are now only co-sponsored. An OceanTeacher Academy (OTA) Application Form was created. A training needs survey was conducted between 9 October and 9 December 2011. Six OTA courses are now scheduled for 2012, with an allocated budget foreseen for 15 fully sponsored students and 2 teachers per course. Tests for online broadcasting to Hyderabad will start in March 2012. Two Accredited courses are scheduled in collaboration with the Erasmus Mundus MSc program (Ghent University and Algarve University). Discussions on hosting a training course from SeaDataNet II and another from PEGASO are underway. Collaboration with POGO will be continued. OTA calendar is not defined for 2013, but a budget is allocated for 4 courses in 2013, for less than 15 fully sponsored students per course.

It was recalled that all funds for OceanTeacher are of extra-budgetary nature: part is provided directly by the Government of Flanders to the IOC project office for IODE (via VLIZ), and part through the FUST-funded OceanTeacher project. It was recalled that, as the Oc난Teacher project is terminating in December 2013 and courses have been more expensive than originally estimated (due to cost increases) the number of courses to be organized in 2013 will be limited to 4 (instead of 6 in 2012) unless additional funding can be identified.

>> The Officers noted the progress of the OceanTeacher Academy and called on the Government of Flanders (Kingdom of Belgium) as well as other Member States to continue supporting this important project.

4.2.3.1 Establishment of ITCOocean

This Agenda item was introduced by Mr Peter Pissierssens. He reported on progress since IOC-XXVI where the offer of India was discussed and accepted. He reported that a Memorandum of Understanding between IOC and INCOIS was currently being negotiated.

>> The Officers noted progress with this item
4.2.4 MIM ACTIVITIES (OCEANDOCS, ASFA, OPENDIRECTORY)

Ms Pikula reported on issues that required the attention of the Officers.

ASFA: It was recalled that IODE-XXI had made an allocation of US$ 3K/year for 2012 and 2013 to participate in the ASFA Advisory Board meetings. In the revised budget this allocation has been removed for 2012. An amount of US$ 2000 has been allocated for 2013.

OceanDocs: It was recalled that IODE-XXI had allocated $3K/year in 2012 and 2013 for software development. An allocation of US$ 20K had been allocated in 2012 for a meeting of the Sg-OceanDocs. This meeting was rescheduled to 2012 and was held 24-27 January 2012 in Oostende. In the revised budget the amount of US$3K has been included for 2012 and 2013.

Ms Pikula added that the recent session of the ASFA Advisory Board had requested IODE to have an active role. This request was based on a number of complementary or overlapping activities. Ms Pikula therefore urged the Officers to allocate funds to allow IOC/IODE to participate in the 2012 ASFA Board.

>>> The Officers approved the revised work plan and budget and decided to allocate funds (up to US$ 2,000) for IOC/IODE participation in the 2012 ASFA Advisory Board meeting (Ireland).

4.2.5 DM PROJECTS AND ACTIVITIES (GTSPP, GOSUD, GODAR, MARINEXML, MEDI, ...)

Mr Troisi reported on issues that required the attention of the Officers.

GODAR: It was recalled that the GODAR project had requested US$ 5.6K for 2012 and 2013. In the revised budget this allocation has been removed.

GTSPP: It was recalled that the GTSPP project had requested US$ 10,000 for the meeting of its SG in 2012. In the revised budget this has been reduced to US$ 5K. GTSPP had also requested US$ 7K/year in 2012 and 2013 for “DM training course”. This allocation has been removed. GTSPP had requested US$ 5K in 2013 for “database system manual”. This allocation has been removed.

>>> The Officers approved the revised work plan and budget but also recommended that the courses as requested by GTSPP should be included in the 2013 OTA programme.

4.3 IODE ODINS

Under this agenda item Officers were invited especially to consider the impact of changes to the work plan and budget caused by the UNESCO budget cut and how/if these cuts to the work plan can be compensated.

4.3.1 ODINAFRICA

This Agenda item was introduced briefly by Mr Mika Odido, who informed the IODE Officers that after a slow start the implementation of ODINAFRICA-IV activities is now progressing well. Three training workshops have been organized on development of coastal and marine atlases, while two workshops have been organized for marine information management. Good progress has been made in the development of national coastal and marine atlases, with 17 national atlases ready for review. 12 countries have submitted their library catalogues for review and quality control. The directory of experts and institutions as well as the projects database are currently under development.

The focus of the remaining period will be the development of regional products, including regional coastal and marine atlases based on the LME regions, merged catalogue of library holdings, the African
repository of publications, the ODINAFRICA nodes for the Ocean Data portal, and the African Register of Marine Species.

The coordination of the project will be relocated from the UNESCO/IOC Project Office for IODE in Oostende, Belgium to the newly established IOC Regional Office for Africa in Nairobi, Kenya at the beginning of March 2012.

The Officers noted the progress of ODINAFRICA

4.3.2 ODINCARSA

4.3.2.1 ODINCARSA-LA

This Agenda item was introduced briefly by Mr Ariel Troisi. He focused on issues that requires the attention of the Officers. It was recalled that IODE-XXI had allocated US$ 3K in 2012 for expert visits. In the revised budget this allocation has been cancelled. An amount of US$ 28K had been allocated for 2012 and 2013 for training. This amount has been removed for 2012. For 2013 an amount of US$ 30,000 has been allocated. An amount of US$ 15K had been allocated in 2013 for a coordination meeting. This amount has been cancelled. An amount of US$ 3000/year in 2012 and 2013 had been allocated for expert visits MIM OceanDocs. This has been cancelled. An amount of US$ 7.4K had been allocated in 2012 and 2013 for IAMSLIC participation. This has been cancelled. An amount of US$ 200 had been allocated in 2012 and 2013 for IAMSLIC membership sponsoring. This has been maintained.

Mr Troisi suggested that the 2013 regional training course, for which US$ 30,000 was allocated, should be held back-to-back with IODE-XXII (planned to be held in Mexico). This would allow not only training of regional experts but also a more substantial participation of Latin America in IODE-XXII.

The Officers approved the revised work plan and budget and recommended to organize the 2013 regional training course back-to-back with IODE-XXII (if held in Mexico)

4.3.2.2 CMA

This Agenda item was introduced briefly by Mr Ariel Troisi. He reported that the project was proceeding well. It was fully funded from extra-budgetary sources (Government of Flanders) until December 2013.

The Officers noted the progress of the project.

4.3.3 ODINECET

This Agenda item was introduced by Ms Sissy Iona. She referred to input (for document IOC/IODE-Off-2012/ITEM2.2) received from Ms Olga Akimova and focused on issues that require the attention of the Officers.

It was recalled that US$ 20K had been allocated in 2012 and 2013 for a coordination meeting. In the revised budget this has been cancelled for 2012 and retained for 2013. An amount of US$ 1200 was allocated in 2012 and 2013 for technical support. This has been cancelled. An amount of US$ 2500 was allocated in 2012 for equipment provision. This has been cancelled. An amount of US$ 8K was allocated for a meeting of Russian librarians. This has been cancelled.

The Officers approved the revised work plan and budget

4.3.4 ODINBLACKSEA

This Agenda item was introduced by Ms Sissy Iona. She referred to input received from Mr Vladimir Vladymyrov and focused on issues that required the attention of the Officers. The Officers were informed also that the report of the joint meeting ODINBlackSea-ODINECET is available on the
project web site. It was recalled that US$9K had been allocated in 2012 and 2013 for a coordination meeting. This has been cancelled in 2012 and retained in 2013.

>>> The Officers approved the revised work plan and budget

4.3.5 ODINWESTPAC

This Agenda item was introduced by Ms Sissy Iona. She referred to input received from Prof. Lin Shaohua and focused on issues that require the attention of the Officers. It was recalled that US$ 25,000 was allocated for a coordination meeting in 2013. This has been cancelled. An amount of US$ 20K was allocated for a training course in 2012. This has been cancelled. Mr Pissierssens informed the Officers that the IOC Project Office for IODE (Oostende) would welcome Ms Du Qiongwei for a loan/secondment of 5 months, starting 11 February 2012. One of the main tasks of Ms Qiongwei would be to revive ODINWESTPAC.

>>> The Officers approved the revised work plan and budget and expressed appreciation to China for making available Ms Du Qiongwei.

4.3.6 ODIN-PIMRIS

This Agenda item was introduced by Ms Sissy Iona. She referred to input received from Ms Susana Macanawai and focused on issues that required the attention of the Officers. It was recalled that US$ 2K was allocated for a scholarship programme in 2012. This was cancelled. An amount of US$ 15K was allocated for a coordination meeting in 2013. This was retained. An amount of US$4K was allocated for “training collection conversion” in 2012. This was cancelled. An amount of US$5K was allocated for participation in IODE-XII in 2013. This was cancelled.

Mr Adi Kakodkar (IODE Secretariat) informed the Officers that he was undertaking a mission to Fiji to implement a hands-on training course on Joomla web site management.

>>> The Officers approved the revised work plan and budget

4.3.7 ODINCINDIO

This Agenda item was introduced by Ms Sissy Iona. She referred to information already included in the report under agenda item 2.2 (item 7.2.3. ODINCINDIO).

>>> The Officers called on IOCINDIO member states to more actively participate in ODINCINDIO.

4.3.8 GENERAL OBSERVATIONS RELATED TO ODINS:

The Officers noted with regret that, due to the 80% budget cut of the UNESCO regular programme support for IODE, most of the ODIN budgets had been hit extremely hard. The resulting available funds are currently below the threshold required to maintain a minimum level of coordination through annual meetings. Although this problem was hopefully only of temporary nature the Officers urged Member States in the ODIN regions to consider alternative means of communication to ensure the continue coordination of the ODIN projects. In this regard the Officers referred to multi-point video conferences as successfully tested during this Officers meeting.

>>> The Officers instructed the Secretariat to make available a “channel” enabling ODINs to hold their annual (or even more frequent) coordination meetings by multi-point video conferencing and invited the ODIN coordinators to make active use of this facility.

>>> The Officers instructed the Secretariat to inform the ODIN coordinators of the revised work plans and budgets of the ODIN projects. They asked the understanding of the ODIN coordinators for the current dramatic financial condition of UNESCO which required drastic cuts. The called on Member
5 INTEGRATION OF OBIS INTO IODE

This Agenda Item was introduced by the secretariat (Mr Peter Pissierssens). He reported on the actions taken since IOC-XXVI. He reported that an ALD position for the OBIS manager position had been advertised in September 2011. This deadline was subsequently extended to 15 January 2012. Twenty applications were received. He reported that, due to the decision by the USA to stop payment of its assessed contribution to UNESCO, the IOC budget (operational) had to be cut by 80%. Whereas the budget allocated by the Assembly for OBIS had amounted to US$ 45,000/year for the biennium 2012-2013, the cuts had reduced this to US$ 10,000/year. The IOC Executive Secretary considered that this amount would be insufficient to operate the IOC Project Office for IODE/OBIS, planned to be established at Rutgers University, USA and had therefore decided to postpone the establishment of this Office and to move the ALD position to the IOC Project Office for IODE in Oostende, Belgium taking into account that this arrangement would be more cost-effective. The former OBIS Executive Director and Rutgers University expressed their disagreement with this decision. It was then decided to discuss options with the IODE Steering Group for OBIS, representing the OBIS community. The IODE Steering Group for OBIS, in January 2012, submitted a proposal on the way forward to the IOC Executive Secretary. This proposal included the separation of technical and coordination tasks. Based upon this proposal and discussions with Mr Mark Fornwall (Chair of the SG-OBIS) in Honolulu, January 2012, it was then decided to offer a contractual arrangement to Rutgers University (providing US$ 80,000 for the period March-December 2012) to carry out the technical tasks associated with OBIS (and the iMarine project), whereas for the coordination and strategic planning tasks a temporary post would be created at the Oostende Office. This offer was accepted by Rutgers University. Administrative arrangements are now being made for the contractual arrangement and the temporary position.

The Officers noted the progress made and approved the actions taken while stressing the need to ensure that the technical tasks are handled, also after December 2012.

6 STRATEGIC ISSUES


This agenda item was introduced by Mr Greg Reed. He referred to Document IOC/IODE-Off-2012/Item6 (Strategic Issues). He briefly recalled the elements included in the first IOC Strategic Plan doe Oceanographic Data and Information Exchange (2008-2011). He recalled that an advisory group had been established to provide guidance but this group had not been successful.

He recalled that an inter-sessional working group on the Strategic Plan had been established by IODE-XXI. This group will meet in Oostende, 1-2 March 2012, with some of the participants attending by video conference. He noted that the new strategic plan will include MIM, ODP, the IODE QMF, and linkages to other systems. Cooperation with JCOMM and the proposed MCDS will also be included in the Strategic Plan. In this regard he asked for input from Ms Sissy Iona. He stressed the need for a new approach for the governance of the strategic plan.

He informed the Officers that they would shortly receive an email inviting contributions for the strategic plan. The March 2012 meeting will collate and discuss all contributions received. He recalled that the draft document should be completed by the end of March.

The Officers then considered the timeline to have the document adopted by an IOC Governing Body.

After some discussion the Officers decided that the document should be agreed upon by the IODE
Officers but also by the IODE Committee before it could be submitted for adoption to the IOC Assembly. It was noted that the strategic plan may then better cover the period 2012-2016 (5 years).

On the other hand it was recognized that some information should be provided to the upcoming IOC Executive Council.

>>> The Officers decided that an information document should be provided to the IOC Executive Council in June 2012 to demonstrate action has been taken and the new strategic plan is being developed.

6.2 INTER-SESSIONAL WORKING GROUP TO IDENTIFY A SET OF QUALITY MANAGEMENT CRITERIA FOR IODE NODCS TAKING INTO ACCOUNT THOSE DEFINED FOR THE WDS

This agenda item will be introduced by Mr Greg Reed. He referred to Document IOC/IODE-Off-2012/Item6 (Strategic Issues) and Document IOC/IODE-Off-2012/Item 6.3 (IODE Quality Management Framework – draft v.0.2). He recalled that the inter sessional working group dealing with this item will work entirely by email. He noted that a discussion site was established on https://iode.basecamphq.com/projects/8113745-iode-quality-management-criteria

Referring to Document IOC/IODE-Off-2012/Item 6.3 he noted that a first draft of the QMF had been prepared. He informed the Officers that the document recommended accreditation criteria that need to be met by NODCs. The QMF will recommend two types of centres: (i) accredited NODC1 and (ii) candidate NODCs that are working towards accreditation.

The category of Designated National Agency (DNA) will be withdrawn. The IWG recommended the establishment of a Steering Group for the IODE QMF which will be responsible for the overall management of the QMF, the assessment of accreditation applications from NODCs and the regular review of capability and performance of accredited NODCs (every 3 to 5 years). IODE accreditation will ensure WDS certification requirements are met so NODCs accredited by IODE will also be accredited as a component of the WDS.

It was noted that ISO-9001 was mentioned as an example of a quality management system but that compliance with ISO-9001 was not a mandatory requirement however all NODCs will need to have a quality management system in place. An NODC that is already ISO-9001 certified should be able to meet the accreditation requirements to become an IODE Accredited NODC. Accredited NODCs that failed a review would need to take remedial action with possible withdrawal of accreditation. If an NODC loses accreditation they would need to reapply and revert to “candidate NODC”.

>>> The Officers decided to establish an interim Steering Group for the IODE QMF, while the establishment of the Steering Group will be proposed at IODE-XXII. The Officers would identify the membership of the interim group.

>>> Noting that capacity building regarding the QMF will be essential the Officers agreed that the training course prior to IODE-XXII (proposed under agenda item 4.3.2.1) should focus on the IODE QMF.

6.3 INVITATION TO ADOPT ICAN (INTERNATIONAL COASTAL ATLAS NETWORK) INTO IODE

This agenda item was introduced by the Secretariat (Mr Peter Pissierssens) and Dr Roger Longhorn. They informed the Officers that a letter was received on 16 January 2012 from Dr New Dwyer and Prof. Dawn Wright on behalf of the ICAN Steering and Management Working Group. The letter stated “The International Coastal Atlas Network (ICAN) is an informal group of organizations that has been meeting since 2006 to scope and implement data interoperability approaches to coastal web atlases (CWAs). The IODE is a member of the Network via the African Marine Atlas and the Caribbean Marine Atlas. Further details on ICAN’s goals and achievements are attached. The current members of the Steering and Management working groups of ICAN would like to request IOC Committee approval to
accept ICAN as an IOC project, with a focus on global coastal atlases, which are digital Internet resources that incorporate information from both the land and marine sides of the coast. Given the complementary nature of ICAN activities to those under the Integrated Coastal Area Management (ICAM) programme, we would also like to consider more formal links with this programme. ICAN believes that there are mutual benefits for the Network and IOC in forging stronger links between these two entities.” The annex to this letter which outlines the objectives of ICAN was available as a background document for the Officers (Document IOC/IODE-Off-2012/Item6.4).

It was noted that the establishment of the project would not have financial repercussions on IODE.

>>> The Officers agreed with the proposal to adopt ICAN as an IODE Project and requested the Secretariat to carry out the necessary formalities.

7  RENEWAL OF MOU FOR IOC PROJECT OFFICE FOR IODE

This agenda item will be introduced by the Secretariat (Mr Peter Pissierssens). He informed the Officers that the Government of Flanders has recently decided to continue its support to the IOC Project Office for IODE in Oostende for an additional 5 years. The support will be channelled through the Flanders Marine Institute (VLIZ). A new Memorandum of Understanding between the Flanders Marine Institute and IOC will be prepared shortly (February 2012).

>>> No action was required from the Officers.

8  COOPERATION WITH OTHER PROGRAMMES AND ORGANIZATIONS

8.1  COOPERATION WITH SCOR AND MBL/WHOI ON DATA CITATION

This Agenda Item was introduced by Ms Linda Pikula. She reported that cooperation with SCOR and MBL/WHOI on Data Citation continues. GEMIM participated in Liverpool meeting November 2011. IODE has set up POD website to be an access point to static data. This needs to be developed further by Marc Goovaerts. Cooperation continues with WHOI/MBL and GEMIM through OceanTeacher. Lisa Raymond WHOI/MBL was an Instructor during the September OT Course Data Curation/Management for MIM. She also participated in the OceanDocs I Steering Group meeting to discuss linking data to publications in OceanDocs January 2011. It is planned that she will take part as "remote" lecturer during the planned November OT course in Management and Selection of E-Repositories.

8.2  COOPERATION WITH ICSU ON WDS

This Agenda item was introduced by Mr Greg Reed. He recalled that IODE was accepted as member of WDS (although no formal confirmation has been received to date). The IWG dealing with the IODE-QMF has identified the accreditation requirements for NODCs. IODE accredited NODCs will meet the certification requirements of WDS.

>> No action was required from the Officers.

8.3  COOPERATION WITH JCComm (OTHER)

This Agenda item was introduced by Ms Sissy Iona. She referred to the Document JCComm-MR-90-MCDS1-Rev1: Workshop for a new Marine Climate Data System, Hamburg, 28 November - 2 December 2011. She informed the Officers on the relevance of the outcome of this meeting to IODE. The Officers were requested to comment on the outcome of this meeting and its possible impact on IODE.
A workshop for a new Marine Climate Data System (MCDS) was held in Hamburg, Germany, from 28 November to 2 December 2011 to discuss the vision for a new MCDS in the next 10 years to better address the requirements of the the GCOS, GFCS, and WMO-IOC Applications for climate monitoring, forecasting and services. The development of the new MCDS is essentially proposed to modernize the Marine Climatological Summaries Scheme (MCSS) and will start from (i) the modernization of the Voluntary Observing Ship (VOS) delayed-mode data-flow, (ii) the establishment of a network of WMO-IOC Centres for Marine-meteorological and Oceanographic Climate Data (CMOCs) on the model of the trusted ICOADS, and (iii) the integration of the Responsible National Oceanographic Data Centre (RNODC) for Drifting Buoys (RNODC/DB) and the Specialized Oceanographic Centre (SOC) for Drifting Buoys (SOC/DB) to avoid duplication.

A strategy and an Implementation Plan has been drafted in order to realize up to 2010 the vision of the new system. The role of the IOC/IODE in the MCDS was extensively discussed and it was agreed that the new system should be developed in close cooperation between JCOMM and IODE as there are complementary IODE data management activities (such as GOSUD, GTSPP, WDC/WOD for sub-surface climate data, RNODC/DB, etc).

The workshop invited the IODE to take full ownership in the MCDS together with JCOMM and invited the IODE Officers to discuss the recommendations from this workshop in early 2012 before JCOMM-IV in May 2012, and discuss synergies, and common actions (e.g. IODE to recognize RNODC/DB as a GDAC), to be possibly reported and discussed at JCOMM-IV.

The Officers noted with regret that IODE had not been formally involved in the drafting of the MCDS documentation and that the IODE Committee or Officers had not been given the opportunity to consider this matter. It was appreciated that IODE had been invited to the Hamburg workshop but it was felt that this workshop did not have the authority to prepare a Draft Resolution for submission to JCOMM-IV.

>>> The Officers decided to consider Document JCOMM-MR-90-MCDS1-Rev1: Workshop for a new Marine Climate Data System, Hamburg, 28 November - 2 December 2011 detailed review and to share comments by email not later than 20 February. On the basis of these comments an IODE “joint statement” would then be prepared by the Co-Chairs which, after approval by the Officers (by email), will be circulated to all IODE national coordinators to be used, as deemed necessary, in their national interventions at JCOMM-IV.

8.4 COOPERATION OF IODE IN IMARINE

This Agenda item will be introduced by Mr Peter Pissierssens. He will inform the Officers on the objectives of iMarine and the role of IOC/IODE in the project. iMarine’s main goal will be to launch an initiative aimed at establishing and operating an e-infrastructure supporting the principles of the Ecosystem Approach to fisheries management and conservation of marine living resources. IOC/IODE will participate in iMarine through OBIS which will be a business case in iMarine. The Officers will be informed that this project will provide €244,404 to IOC over a period of 30 months (starting 1 November 2011). These funds are mainly for personnel. It will be recalled that the technical work related to iMarine will be carried out by Rutgers University, whereas the coordination/strategic work will be carried out by the OBIS manager in Oostende.

>> No action was required from the Officers

8.5 COOPERATION OF IODE IN GEO/GEOSS

This agenda item will be introduced by Dr Nick Mikhailov. The Officers will be invited to comment on the participation of IOC/IODE in this project. At the end of 2011 contacted for GEOSS Broker. We had teleconference with people dealing with this. It was decided to do a test to demonstrate interoperability ODP and EuroGEOSS broker. We targeted some dates. We created some metadata records. (see also EARLIER IN REPORT). As soon as we have new metadata in ISO 19139 then we can continue.

Regarding survey: one was already filled by ODP centre, others by NODCs.
8.6 COOPERATION OF IODE IN GEOWOW

This agenda item was introduced by Mr Peter Pissierssens. He informed the Officers that the project GEOWOW (GEOSS interoperability for Weather, Ocean and Water) was approved for funding by the European Commission under FP7 (Environment) in 2011. The objectives of GEOWOW are to (i) propose and validate a distributed architectural model federating Earth observation and other Earth science data holdings, including specific communities’ infrastructure, and put this model forward as the European contribution to the GEOSS Common Infrastructure (GCI) and its evolution toward a wider GEOSS architecture; (ii) develop innovative methods for harmonized access and use of heterogeneous data, services, and models to foster the sharing of knowledge among multiple disciplines, and the more integrated assessment and understanding necessary to advance global sustainability research; (iii) contribute to the GCI interoperability, standardization and operability via developments and evolution; (iv) develop and support services for data dissemination, access, use (and processing) for the selected SBAs, contributing to the development of assessment tools and monitoring methods for sustainable development; (v) establish, harmonize and promote data sharing and usage procedures consistent with the GEOSS data sharing implementation guidelines, and contribute to the development of the GEOSS data core; (vi) provide harmonized and fast data access for meteorological hazards/extreme events, e.g. floods, including pre-processing services aimed at making the data of immediate use; (vii) deploy an e-infrastructure giving access to in-situ and satellite data as needed by hydrological application and run-off process; (viii) support and enhance the access to in-situ and satellite ocean observations, to information on threats to ocean ecosystems, and to key ocean forecasts and projections – for research and assessment. A particular focus will be on supporting inter-disciplinary interoperability and on the use of semantics for enhanced discovery of data in the selected SBAs’ domains. The GOOS programme manager (Albert Fischer) invited IODE to collaborate. A questionnaire was transmitted to the ODP coordinator (Nick Mikhailov) and OBIS coordinator (Edward Vanden Berghe) in 2011. Information was obtained on ODP but not yet on OBIS. Some financial support could be made available (20K$) under this project.

>> No action was required from the Officers

8.7 COOPERATION OF IODE IN SEADATANET2

This Agenda item was introduced by Ms Sissy Iona. He informed the Officers on the objectives of SeaDataNet2 and on the role of IOC/IODE in the project. It was noted that IOC will not be a partner in the project but a sub-contractor of IFREMER. The tasks under this contract will consist of hosting two or three training courses in Oostende. The project leader for this work package will be Serge Scory (Belgium). An important area of cooperation should be the interoperability between SDN and ODP. Ms Iona will comment on this aspect. The financial contribution of the project towards IODE will be €67,500.

>> No action was required from the Officers

8.8 COOPERATION WITH EUMETSAT

This Agenda item was introduced by Dr Claudia Delgado. Two training courses on Applications of Satellite Wind and Wave Products for Marine Forecasting were successfully hosted at the IOC project Office in Oostende in 2009 and 2011. The possibility of hosting another training course later in 2012 in being discussed, and eventually addressing topics beyond marine meteorology and integrating also oceanography, which may thus expand the collaboration into the GOOS. The Officers were informed also that EUMETSAT has expressed interest in collaborating with ODP.

>> No action was required from the Officers

8.9 COOPERATION WITH POGO

This Agenda item was introduced by Mr Peter Pissierssens. He informed the Officers that he participated, together with the IOC Executive Secretary, in the POGO-13 meeting which was held at the University of Hawaii, East-West Center, Honolulu, between 9-11 January 2012. As a result of his presentation at POGO-13 the following items were considered for future cooperation: (i) establish a formal agreement on cooperation; (ii) continued cooperation with the CoFEx; (iii) co-operate with CoFEx to
“globalize” its programme; (iv) cooperate with regional training centres (eg ITCOOcean); (v) provide training to POGO members through the OTA Global Classroom; (vi) POGO members to contribute content to the OTA Global Classroom through providing lecturers; (vii) POGO members to share training programmes through OTA Global Classroom; (viii) POGO members invited to use ODP to share and disseminate data; (ix) POGO members invited to participate in IODE activities, standards and methods; and (x) POGO members invited to participate in Data publication/Data citation (SCOR-IODE-MBLWHOI). During the discussions it was revealed that data management is still not included in graduate university curricula and thus the need for “data management literacy” courses was appreciated by POGO Members. Especially prof dr Karen Wiltshire (AWI, Helgoland) expressed strong interest in closer collaboration between POGO and IODE. Also Trevor Platt supported closed collaboration.

8.10 NEW OPPORTUNITIES

This Agenda Item was introduced by Mr Ariel Troisi. The Officers were invited to identify new opportunities for cooperation with projects and organizations.

Ms Linda Pikula (Chair GE-MIM) highlighted the following opportunities in the area of marine information management: (i) cooperation between IODE and FAO regarding the AgriOceanOceandocs platform: (ii) cooperation with IAMSLIC on Aquatic Commons and data linking in publications; (iii) cooperation with UNESCO’s global open access portal; (iv) cooperation with UNESCO’s open educational resources; (v) cooperation with UNESCO’s memory of the world – digitization initiative.

Mr Ariel Troisi called for closer collaboration with GBIF, as follow-up to his participation in a GEBIF meeting in Buenos Aires recently. He also called for close collaboration with COMET in the area of training.

Mr Hernan Garcia recommended IODE collaboration in ocean acidification

Mr Pissierssens, referring to his recent visit to ITIC, Honolulu noted that IODE could establish closer collaboration with the IOC tsunami programme related to training (OceanTeacher).

>>> The Officers noted the mentioned opportunities and requested the authors to follow-up the proposals in preparation for IODE-XXI.

9 PREPARATIONS FOR IOC/EC

This Agenda Item was introduced by Mr Ariel Troisi. The Officers were invited to identify issues that should be submitted to the upcoming 45th Session of the IOC Executive Council which will be held in Paris between 25 and 29 June 2012.

In this regard reference was made to

(i) reporting on the status of OBIS;
(ii) status of the development of the strategic plan;
(iii) draft resolution regarding the establishment of the National Support Centre for IODE/ODP +
    call for more support and contributions to ODP by IOC member states
(iv) status of the formal agreement regarding ITOocean
(v) contributions to OceanTeacher and to OBIS
(vi) JCOMM-IV outcome from the view of IODE
(vii) IODE Quality Management Framework for the accreditation of NODCs

The Officers were also invited to designate the Co-Chair who will participate in the Session. It was noted that currently no funds have been allocated for this purpose.

>>> The Officers decided that Mr Ariel Troisi will represent IODE at the Exec Council
10 PREPARATIONS FOR IODE-XXII

This Agenda Item was introduced by Mr Peter Pissierssens. He recalled that, during IODE-XXI, Mexico had offered to host the twenty-second session in Cancun, Mexico. Mr Pissierssens informed the Officers that Mr Carlos Torres (Mexico) had recently informed the Secretariat that he was negotiating support for the Session with the Mexican authorities. In addition to Cancun, other locations such as Mexico City or Ensenada were being considered. Mr Torres had informed the Secretariat that the formal offer will be communicated to IOC/IODE by the end of February 2012.

>>> The Officers expressed their appreciation to Mexico for offering to host IODE-XXI

The Officers were informed that the budget available for IODE-XXII from the UNESCO regular programme would be very limited (currently US$ 10,000 was allocated but this may need to be halved). This funding was usually used for secretariat staff travel (3-4 staff are usually required to support the Session: Mr Peter Pissierssens, Ms Claudia Delgado, Ms Kristin de Lichtervelde and possibly Mr Adi Kakodkar). The available funding may not cover the cost of these 4 staff.

The Officers were invited to comment on the planning of the Session in Mexico and on possible ways and means to identify additional financial support.

>>> The Officers recalled that they had recommended organizing a training course back-to-back to IODE-XXII and suggested that this may enable additional staff to attend IODE-XXII.

11 REVISION OF IODE-XXI WORK PLAN AND BUDGET FOR 2012-2013

This Agenda Item was introduced by Mr Ariel Troisi. He referred to the revised budget table 2012-2013 which was circulated to all Officers prior to the meeting. He invited the Officers to review and revise, as necessary, the budget, taking into account discussions under the previous agenda items.

>>> The Officers decided that 2012-2013 publications should be published online only, thereby cancelling the allocation of US$ 2000 for printing of publications in 2012. The Officers decided to re-allocate these funds to GE-MIM-XXII

>>> The Officers adopted the revised budget for 2012-2013 (attached as Annex…).

>>> The Officers noted the successful implementation of the 2012 IODE Officers meeting by multi-point video conferencing (Webex) and recommended that this tool should be utilized by all Groups of Experts, Steering Groups and other small meetings of less than 10 participants whenever possible, as the cost saving had been clearly demonstrated.

12 ANY OTHER BUSINESS

12.1 SECRETARIAT SUPPORT

This Agenda Item was introduced by Mr Peter Pissierssens. He recalled that at IODE-XXI Member States had been invited to second staff to the IOC Project Office for IODE. Two Member States offered a “loan” of experts: China (Ms Du Qiongwei) and USA (Mr Charles Sun). Mr Pissierssens informed the Officers that Ms Du Qiongwei would join the Oostende office around 10 February for a stay of 5 months. Initially the duration was planned to be 10 months (in 2 period of 5 months) but the budget cut forced us to reduce the duration to 5 months (IODE offers lump sum per diem; the member state provides the air tickets). Possibly her stay would be extended by another 3-5 months if financial support can be provided by China. Mr Pissierssens reported that the “loan” of Mr Sun was currently uncertain and may be replaced by a few short-term expert visits. Initially he was planned to join in February.
The Officers were invited to comment on the loans/secondments and to identify ways to obtain fully-funded secondments.

>>> The Officers noted with appreciation the example set by Russia by offering substantial support of a National Support Centre for IODE/ODP and called on other Member States to follow this example.

12.2 ELECTION OF IODE CO-CHAIRS

This Agenda Item was introduced by Mr Peter Pissierssens. He recalled that Mr Ariel Troisi and Ms Sissy Iona had been elected at IODE-XXI. They were invited to inform the Officers whether they wish to stand candidate for a second term of 2 years.

>>> Ms Iona and Mr Troisi confirmed their willingness to stand candidate for a second inter-sessional period.

13 ADOPTION OF THE SUMMARY REPORT

In view of the fact that this meeting was held by video conference within a very limited time frame (5 hours over 5 days) the Officers were informed that it was not possible to include the adoption of the Report in the agenda. It was recalled that the draft report was circulated at the end of each day for revision by the Officers. The Officers were invited to send comments on the report to the Secretariat within the next 7 days after which it will be published.

14 CLOSING OF THE MEETING

The meeting was closed on Friday 3 February at 13h45 Oostende time.
ANNEX I

AGENDA

1. OPENING OF THE MEETING
2. REVIEW OF THE IODE-XXI ACTION SHEET
   2.1. Events organized since IODE-XXI
   2.2. Progress report on the IODE-XXI work plan
3. DECISIONS OF IOC-XXVI RELATED TO IODE
4. STATUS OF THE IODE PROGRAMME
   4.1. IODE GROUPS OF EXPERTS
      4.1.1. GE-BICH
      4.1.2. GE-MIM
      4.1.3. JCOMM/IODE ETDMP
      4.1.4. GE-OBIS
   4.2. IODE GLOBAL PROJECTS
      4.2.1. IODE OceanDataPortal
         4.2.1.1. Establishment of a National Support Centre for IODE/ODP in Obninsk
      4.2.2. IODE/JCOMM Ocean Data Standards
      4.2.3. IODE OceanTeacher
         4.2.3.1. Establishment of ITCOcean in Hyderabad
      4.2.4. MIM activities (OceanDocs, ASFA, OpenScienceDirectory)
      4.2.5. DM Projects (GTSP, GOSUD, GODAR, MarineXML, MEDI, ...)
   4.3. IODE ODINs
      4.3.1. ODINAFRICA
      4.3.2. ODINCARSA
      4.3.3. ODINECET
      4.3.4. ODINBlackSea
      4.3.5. ODINWESTPAC
      4.3.6. ODIN-PIMRIS
      4.3.7. ODINCINDIO
5. INTEGRATION OF OBIS INTO IODE
6. STRATEGIC ISSUES
   6.2. INTER-SESSIONAL WORKING GROUP TO DEVELOP THE DESCRIPTION OF THE NEW IODE DATA AND INFORMATION SYSTEM AND ITS LINKAGES WITH OTHER SYSTEMS (ONE PART WILL FOCUS ON WDS)
   6.3. INTER-SESSIONAL WORKING GROUP TO IDENTIFY A SET OF QUALITY MANAGEMENT CRITERIA FOR IODE NODCS TAKING INTO ACCOUNT THOSE DEFINED FOR THE WDS
   6.4. INVITATION TO ADOPT ICAN (INTERNATIONAL COASTAL ATLAS NETWORK) INTO IODE
7. RENEWAL OF THE MOU FOR THE IOC PROJECT OFFICE FOR IODE
8. COOPERATION WITH OTHER PROGRAMMES AND ORGANIZATIONS
   8.1. COOPERATION WITH SCOR AND MBLWHOI ON DATA CITATION
   8.2. COOPERATION WITH ICSU ON WDS
   8.3. COOPERATION WITH JCOMM (OTHER)
   8.4. COOPERATION OF IODE IN IMARINE
   8.5. COOPERATION OF IODE IN GEO/GEOSS
   8.6. COOPERATION OF IODE IN GEOWOW
   8.7. COOPERATION OF IODE IN SEADATANET2
8.8. COOPERATION WITH EUMETSAT
8.9. COOPERATION WITH POGO
8.10. NEW OPPORTUNITIES

9. PREPARATIONS FOR IOC/EC
10. PREPARATIONS FOR IODE-XXII
11. REVISION OF IODE-XXI WORK PLAN AND BUDGET FOR 2012-2013
12. ANY OTHER BUSINESS
   12.1 SECRETARIAT SUPPORT
   12.2 ELECTION OF CO-CHAIRS
13. ADOPTION OF THE REPORT
14. CLOSING OF THE MEETING
ANNEX II

LIST OF PARTICIPANTS

IODE Officers (by VC)

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Fax: +7-499 795 22 25
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NOAA Central and Regional Libraries
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Miami Florida 33149
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Fax: 305-361-4552
Email: linda.pikula@noaa.gov

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Executive Officer
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Australian Ocean Data Centre Joint Facility
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Tel: +32-59-340158
Fax: +32-59-79 5220
Email: p.pissierssens@unesco.org
## ANNEX III

### REVISED IODE BUDGET 2012-2013

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| Euro (at 0.729)       | 21,870 | 166,223 | 120,285 | 330,248 |
| Available US$         | 30,000 | 271,605 | 172,000 | 473,605 |
| Balance               | 0      | 43,590  | 7,000   | 20,590  |</p>
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Sub-total May-Dec 2013: 20,000 124,200 5,000 80,000

Grand totals 2013: 30,000 285,200 5,000 80,000

In Euro (0.729): 21,000 200,000

Available US$: 30,000 285,714 5,000 80,000

Balance: 0 514 0 0