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INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION
(of UNESCO)

Forty-first Session of the Executive Council
UNESCO, Paris, 24 June – 1 July 2008

Item 4.1.3 of the Provisional Agenda

**REPORT BY THE IOC EXECUTIVE SECRETARY
ON THE STATUS OF IOC SUBSIDIARY BODIES**

Summary: The present document is complementary to documents IOC/EC-XLI/2Annex 4 on the IOC Draft Operating Plan for 2008–2009 and IOC/EC-XLI/2 Annex 6 on the Draft Rules of Procedure applying to IOC Subsidiary Bodies. It contains fact sheets for the IOC Subsidiary Bodies summarizing relevant programmatic, administrative and financial information. The document is intended to inform the debate of the Executive Council on the role of IOC Subsidiary Bodies in the implementation of the IOC Medium-Term Strategy and Biennial Strategies, so that the Assembly at its 25th Session can apply Rule of Procedure 24.1 and review terms of reference and continuing requirement for each of these bodies and make changes and decisions as necessary.

The Executive Council is invited to consider and provide comments on the status of IOC Subsidiary Bodies and recommend actions to be taken by the Assembly at its 25th Session in 2009.

Introduction

1. The present document contains fact sheets for the IOC primary Subsidiary Bodies summarizing relevant programmatic, administrative and financial information.¹

Primary Subsidiary Bodies

2. In the present document, IOC primary subsidiary bodies are presented based on their character and attachment to IOC programmes, according to the IOC Manual² and relevant guidelines.³

Scientific and/or Technical Committees

3. Scientific and/or Technical Committees are the main Subsidiary Bodies of the Commission. They are intergovernmental and may be established only by the Assembly and the Executive Council. Each such Committee is expected to take decisions and act as necessary to give effect to the Commission's policy decisions, within its terms of reference and allocated budget, and make recommendations to the governing bodies of the Commission on policy matters within its Terms of Reference and on future actions required.

- International Oceanographic Data and Information Exchange (IODE) (1961)
- Intergovernmental Panel on Harmful Algal Blooms (IPHAB) (1991)
- Intergovernmental IOC-WMO-UNEP Committee for GOOS (I-GOOS) (1992)
- Advisory Body of Experts on the Law of the Sea (ABE-LOS) (1997)
- Intergovernmental Coordination Group for the Pacific Tsunami Warning and Mitigation System (ICG/PTWS) (2006)
- Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWS) (2005)
- Intergovernmental Coordination Group for the Tsunami and Other Coastal Hazards Warning System for the Caribbean and Adjacent Regions (ICG/CARIBE EWS) (2005)
- Intergovernmental Coordination Group for the Tsunami Early Warning and Mitigation System in the North-eastern Atlantic, the Mediterranean and Connected Seas (ICG/NEAMTWS) (2005)

Sub-Commissions

4. Regional Sub-Commissions are intergovernmental Subsidiary Bodies of the Commission, responsible for the promotion, development and co-ordination of the Commission's marine scientific research programmes, the ocean services, the ocean operational observing systems and related activities, including TEMA, in their respective regions through the concerted action of their Member States. Regional Sub-commissions They are established by the IOC Governing Bodies at the request of Member States in the region taking into account their specific interests

¹ This document represents a first compilation and full information is not available for all Subsidiary Bodies.

² IOC. IOC Manual. Part I – Constitutional and other formal texts. IOC/INF-785. Paris: UNESCO, 1989, reprint 1995.

³ IOC. Guidelines for the Structure and Responsibilities of the Subsidiary Bodies of the Commission and for the Establishment of Decentralized Offices. Paris: UNESCO, IOC/INF-1193 prov. 2004.

and needs and operate within the framework of the general policy of the Commission and the budgetary guidelines and allocation established by the Assembly.

- Sub-commission for the Caribbean and Adjacent Regions (IOCARIBE) (1982)
- Sub-commission for the Western Pacific (WESTPAC) (1989)

Regional Committees

5. Regional Committees are intergovernmental subsidiary bodies of the Commission, responsible for the co-ordination and supervision of the scientific and service activities of the Commission at the regional level. They are expected to take Decisions and act as necessary to give effect to the Commission's policy decisions through the concerted action of their Member States, within their Terms of Reference and allocated budget, and make Recommendations to the Governing Bodies of the Commission on policy matters within their Terms of Reference and on future actions required.

- Regional Committee for the Western Indian Ocean (IOCWIO) (1979)
- Regional Committee for the Central Indian Ocean (IOCINDIO) (1982)
- Regional Committee for the Central Eastern Atlantic (IOCEA) (1984)
- Black Sea Regional Committee (BSRC) (1995)

Joint Subsidiary Bodies

6. Joint Subsidiary Bodies may be formed with other organizations if such bodies are clearly necessary for the successful development and implementation of the programme in question. Co-sponsorship of such bodies by the Commission is decided upon by the Assembly.

- Joint IOC-IHO Guiding Committee for the General Bathymetric Chart of the Oceans (GEBCO) (1974)
- Joint WMO-IOC Technical Commission for Oceanography and Marine Meteorology (JCOMM) (1999)

Secondary Subsidiary Bodies

7. Secondary Subsidiary Bodies shall be created by the IOC Governing Bodies⁴, by a primary Subsidiary Body⁵, which are most cases, and by the IOC Executive Secretary⁶

Task Teams

8. Task Teams are small ad hoc intergovernmental subsidiary bodies formed to carry out specific tasks at no expense to the Commission other than routine Secretariat support, unless specific approval is obtained from the Assembly or Executive Council. Task Teams may be formed by the Assembly, the Executive Council and by Scientific and/or Technical Committees, Sub-Commissions and Regional Committees. Task Teams usually work by correspondence, but meetings may be convened when the necessary costs have been allocated or when no costs

⁴ Rule 24.1

⁵ IOC. IOC Manual. Part I – Constitutional and other formal texts. IOC/INF-785. Paris: UNESCO, 1989, reprint 1995

⁶ Following in Rule 25.1 and 29, if deemed necessary to ensure the convening and servicing of a primary Subsidiary Body.

fall on the Commission. Task Teams should be disbanded by their parent body upon completion of their assigned tasks.

- Working Group on the Future of IOC (2006)
- Working Group on Tsunamis and Other Hazards Related to Sea-Level Warning and Mitigation Systems (TOWS-WG) (2006)

Groups of Experts

9. Groups of Experts are small subsidiary bodies composed of specialists selected in their personal capacity for their scientific or technical expertise. They will undertake detailed scientific and technical studies and/or co-ordination tasks, by subject or region, as identified by the Assembly, the Executive Council, a Sub-Commission, a Scientific and/or technical Committee, or a Regional Committee.

- Group of Experts on the Global Sea-Level Observing System (GLOSS)
- IMO-FAO-IOC-WMO-IAEA-UN-UNEP-UNIDO Joint Group of Experts on Scientific Aspects of Marine Environmental Protection (GESAMP) (1969)

UNESCO categories of meetings

10. Secondary Subsidiary Bodies established by primary Subsidiary Bodies are represented in Figures 1-3; primary and secondary subsidiary bodies are given also with reference to the Regulations for the general classification of the various categories of meetings convened by UNESCO.⁷ Meetings convened by UNESCO are divided between (i) meetings of a representative character (where States or governmental or intergovernmental or international non-governmental organizations are represented as chief participants) and (ii) meetings of a non-representative character (where chief participants act in a private capacity).

11. Meetings convened by IOC Subsidiary Bodies fall in the following UNESCO categories:

- Meetings of a representative character
 - Intergovernmental meetings other than international conferences of States (category II)
- Meetings of a non-representative character
 - Advisory committees (category V)
 - Experts committees (category VI)

Recommendations

12. The Executive Council is invited to consider the status of primary Subsidiary Bodies in relation to:

- Their efficiency and effectiveness in the light of their terms of reference and available means
- Their contribution to the High-Level Objectives and associated Actions of the IOC Medium-Term Strategy 2008–2013

⁷ UNESCO, *Basic Texts*. Paris: UNESCO, 2008.

- Continuing requirements and possible adjustments for the optimization of their operation

13. The Executive Council may wish to instruct the Executive Secretary to produce a subsequent study encompassing secondary subsidiary bodies (see figures in the following pages) and focusing on:

- Key outputs and results in relation to defined objectives and targets
- Opportunities for optimized interactions among subsidiary bodies covering the same region
- Cooperation with other organizations of the UN system dealing with ocean affairs

14. Such study would be presented to the Assembly at its 25th Session for its consideration and possible decisions on the base of Rule of Procedure 24.1 to

“review terms of reference and continuing requirement for each of these bodies and make changes and decisions as necessary”.

The Governing Bodies of IOC have always paid attention to the number and type of subsidiary bodies established by them. The general principle is that their mandate should be continuously reviewed and assessed; this has proven to be a good practice and this document has been developed in preparation of such an exercise by the Assembly.

Note: Due to budgetary constraints the following figures and fact sheets appear in English in all language versions

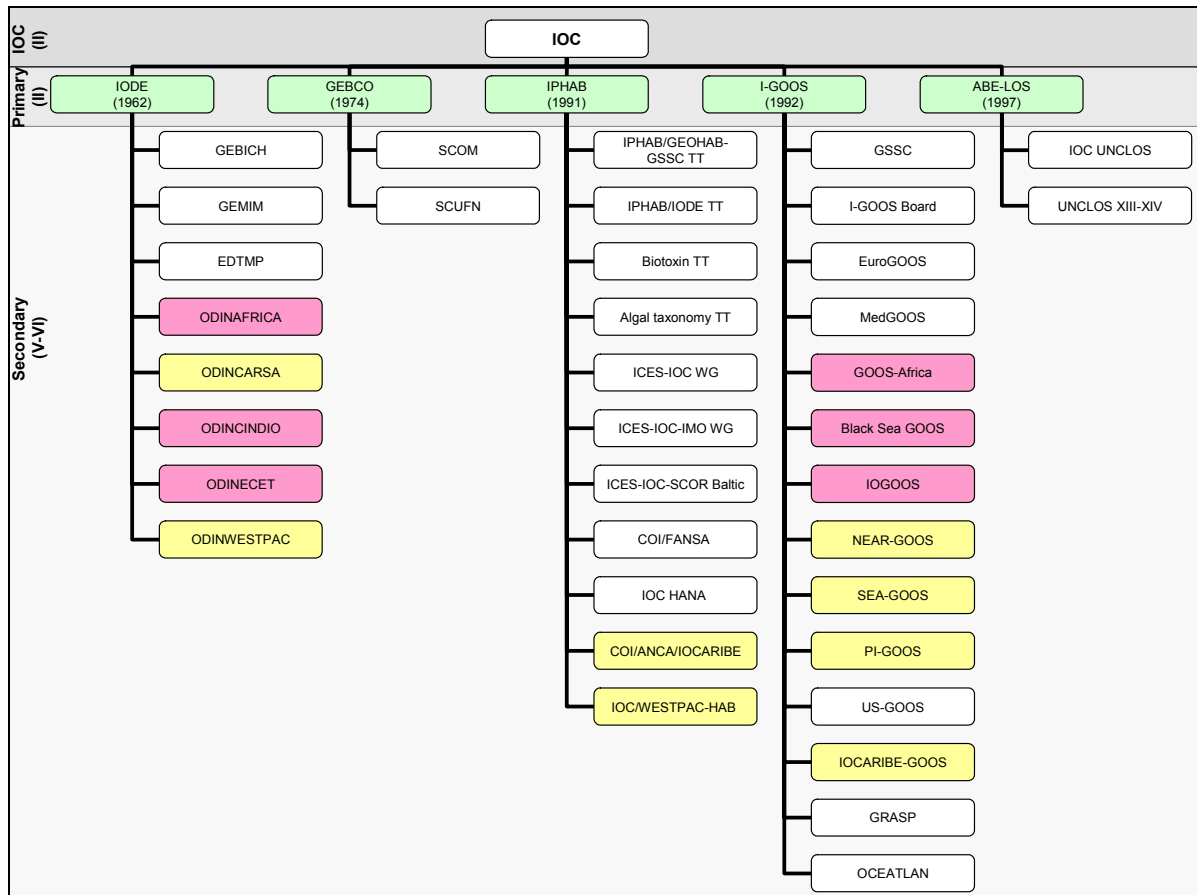


Figure 1 – Scientific and Technical Committees

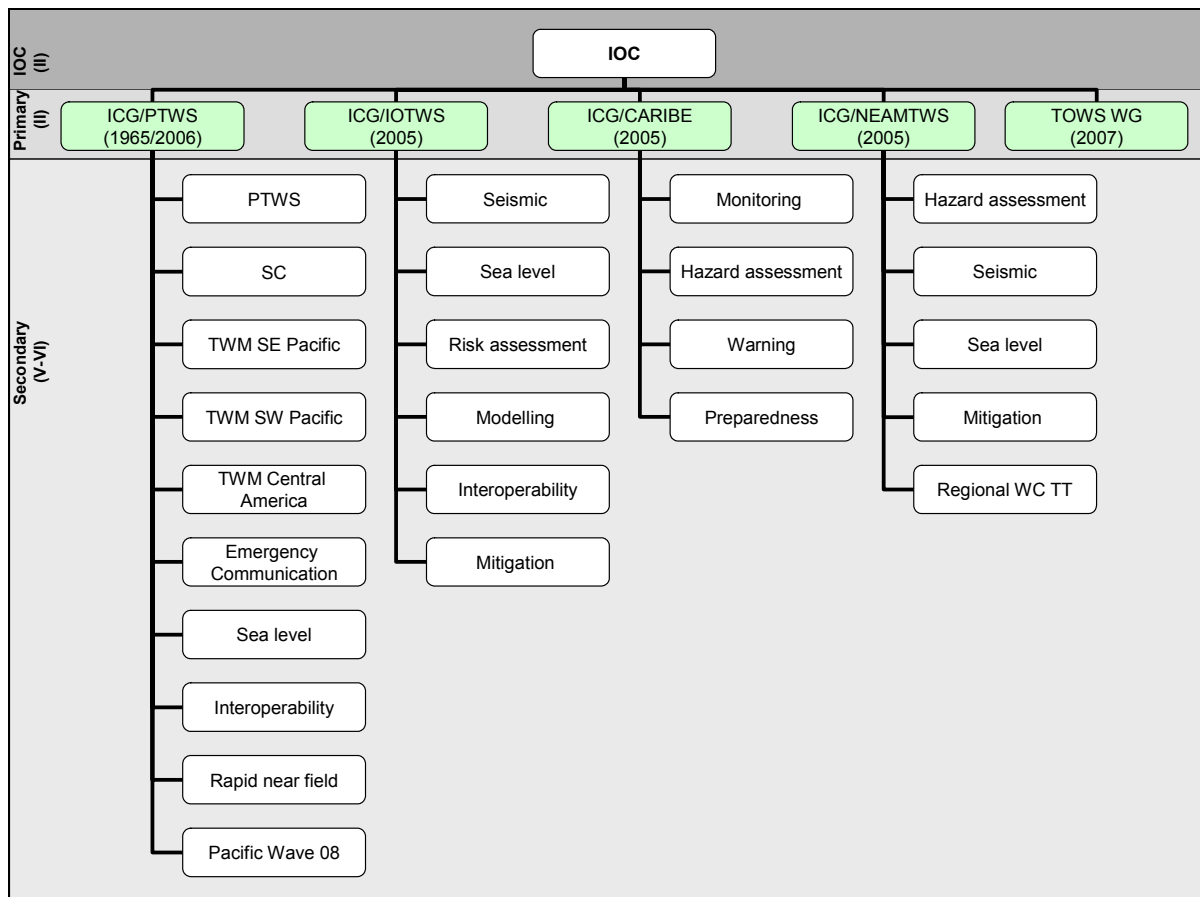


Figure 2 – Scientific and Technical Committees: ICGs

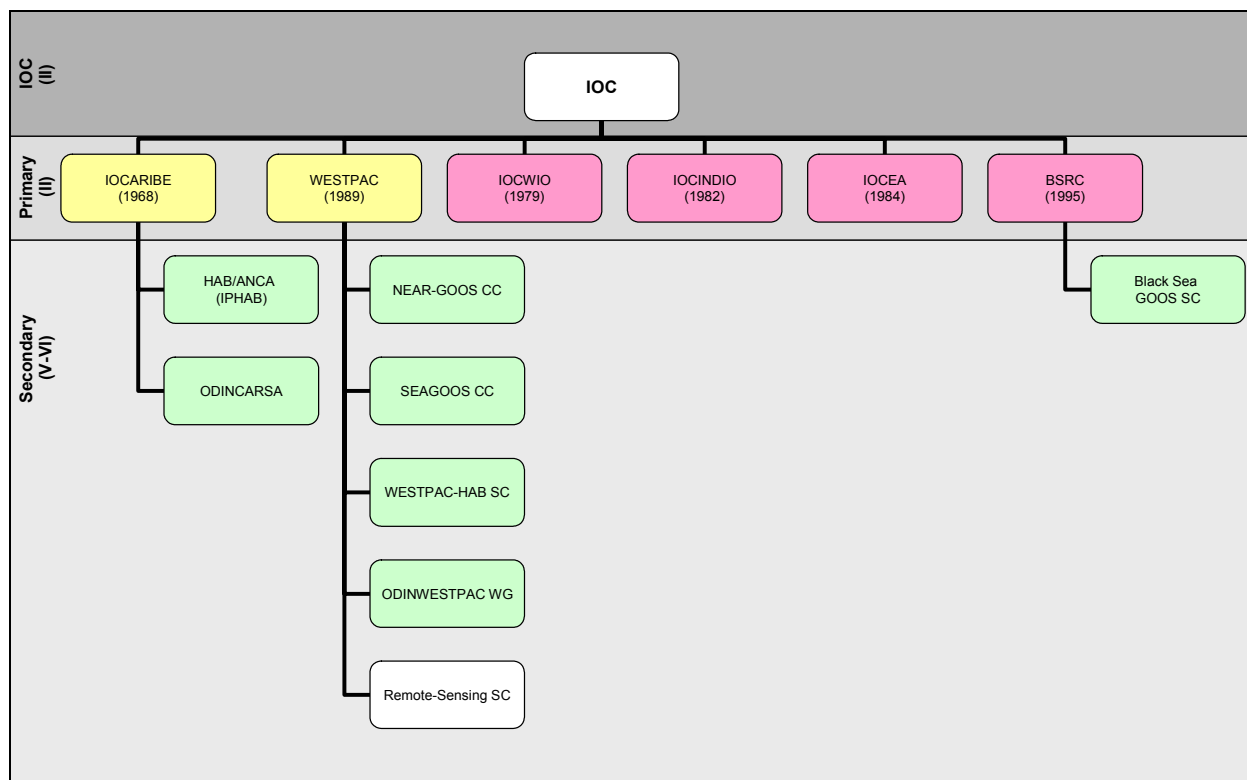


Figure 3 – Regional Sub-Commissions and Regional Committees

Title of Subsidiary Body	Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWS)
Date and resolution of establishment	June 2005, Resolution XXIII-12
Terms of reference	<p>Annex to Resolution XXIII-12</p> <ul style="list-style-type: none"> • To coordinate the activities of the IOTWS; • To organize and facilitate as appropriate the exchange of seismic, sea level and other data at or near real-time and information required for the interoperability of the IOTWS; • To promote the sharing of experience and expertise related to tsunami warning and mitigation for the Indian Ocean basin; • To promote tsunami research; • To promote the establishment and further development of national tsunami warning and mitigation capacities in accordance with standard protocols and methods; • To develop, adopt and monitor implementation of work plans of the IOTWS, and to identify required resources; • To promote implementation of relevant capacity-building; • To liaise and coordinate with other tsunami warning systems; • To liaise with other relevant organizations, programmes and projects; • To promote the implementation of the IOTWS within a multi-hazard framework; • To keep under constant scrutiny the status of the system and how it satisfies the needs.
Sunset clauses	None
Membership	<p>28 Member States of the IOC within and bordering the Indian Ocean: Australia, Bangladesh, Comoros, Djibouti, France (La Reunion), India, Indonesia, Iran, Kenya, Madagascar, Malaysia, Maldives, Mauritius, Mozambique, Myanmar, Oman, Pakistan, Seychelles, Singapore, Somalia, South Africa, Sri Lanka, United Arab Emirates, Tanzania, Thailand, Timor Leste, United Kingdom, Yemen</p> <p>Observers from other IOC Member States</p> <p>Invited observers from other organizations (including NGOs), programmes and projects, in accordance with the IOC rules and procedures</p>
Governance	Officers composed of Chairman and two Vice-chairmen. The Officers meet on the occasion of sessions of the ICG/IOTWS and also at meetings of the Steering Group.
Elected/appointed Officers	<p>Chairman: Dr Jan Sopaheluwakan (Indonesia)</p> <p>Vice-Chairman: Mr Rick Bailey (Australia)</p> <p>Vice-Chairman: Dr Shailesh Nayak (India)</p>
Structure	<p>Steering Group: Chair, Vice Chairs and Working Group Chairs and Vice Chairs)</p> <p>Working Groups:</p> <ol style="list-style-type: none"> 1. Seismic Measurements, Data Collection and Exchange (Chair Dr Fauzi, Indonesia; Vice-Chair Dr Spiro Spiliopoulos, Australia) 2. Sea Level Data Collection and Exchange, including Deep Ocean Detection (Chair Vacant, Vice-Chairs Ken Jarrott, Australia and Dr Parluhutan Manurung, Indonesia) 3. Risk Assessment (Chair Prof Sam Hettiarachchi, Sri Lanka, Vice-Chair Dr John Schneider, Australia) 4. Modelling, Forecasting and Scenario Development (Chair Prof Chari Pattiaratchi, Sri Lanka, Vice-Chair Dr Diana Greenslade, Australia) 5. Establishment of a System of Interoperable Warning Centres (Chair Mr Geoff Crane, Australia, Vice Chair Mr Charles Ngunjiri, Kenya) 6. Mitigation, Preparedness and Response (Chair Mr Michel Vielle, Seychelles, Vice Chair Mr Che Moin Umar, Malaysia)

Sessions held	ICG/IOTWS-I, Perth, Australia, August 2005 (ICG/IOTWS-I/3) ICG/IOTWS-II, Hyderabad, India, December 2005 (ICG/IOTWS-II/3) ICG/IOTWS-III, Bali, Indonesia, July 2006 (ICG/IOTWS-III/3) ICG/IOTWS-IV, Mombasa, Kenya, February 2007 (ICG/IOTWS-IV/3 ICG/IOTWS-V, Kuala Lumpur, Malaysia, April 2008 (ICG/IOTWS-V/3\0			
Secretariat focal point(s)	Tony Elliott, Jane Cunneen			
Website	http://www.ioc-tsunami.org/index.php?option=com_frontpage&Itemid=189			
Sources of funding	Contributions from Australia for ICG/IOTWS Secretariat. Contributions from Australia, Italy, USAID, UNDP, IO Consortium for meetings, training and projects. In-kind contributions from Member States through national and international projects.			
Financial contributions (US\$)	2006-2007		2008-2009	
	Regular programme	\$54,200	Regular programme	\$170,000
	Extrabudgetary	\$1,077,525	Extrabudgetary	\$ n.a.
	Total	\$1,131,725	Total	\$
Staff (no.)	2006-2007		2008-2009	
	IOC	Head of Secretariat, Programme Specialist (joined July 2006) Assistant Programme Specialist (joined January 2006)	IOC	Head of Secretariat Programme specialist Assistant programme specialist
	Seconded	Programme Specialist (seconded May 2007 – April 2008), supported by AusAID	Seconded	
	Total		Total	
Main activities and outputs and contribution to IOC high-level objectives and programme priorities (as identified in Resolution XXIV-2)	Four courses in numerical inundation modelling conducted (Melbourne, Jan 2007; Bangkok, July 2007; Jakarta, Sept 2007; Seychelles, Jan 2008), supported by AusAID, USAID, Italy, IO Consortium) Formal agreement for free data exchange for a core network of seismic monitoring stations and core network of sea level monitoring stations Database of national focal points (TWFP and TNC) organised and maintained by IOC and reported to PTWC and JMA.			
Strategic and planning documents	Implementation Plan for the IOTWS			
Cooperation	IOC Subsidiary Bodies	IODE, GLOSS, GOOS, JCOMM IOC Regional Programme Office Perth		
	UNESCO Field Offices	UNESCO Jakarta Office		
	UN agencies	WMO, ISDR (Bangkok), UNDP (Bangkok) UNESCAP		
	Other organizations	USAID, ADPC, ADRC, WAPMERR,		
Issues and risks				
Last external evaluation	—			
Decisions/action required of the 41 st Executive Council	Endorse the recommendations of ICG/IOTWS-V			

Title of Subsidiary Body	Intergovernmental Coordination Group for the Tsunami and Other Coastal Hazards Warning System for the Caribbean and Adjacent Regions (ICG/CARIBE EWS)
Date and resolution of establishment	June 2005, Resolution XXIII-13
Terms of reference	<p>Annex to Resolution XXIII-13</p> <ul style="list-style-type: none"> • To coordinate the activities of the ICG/CARIBE EWS; • To organize and facilitate as appropriate the exchange of seismic, sea level and other data at or near real-time and information required for the interoperability of the tsunami and other coastal hazards system; • To promote the sharing of experience and expertise related to tsunami warning and mitigation for the Caribbean and Adjacent Regions Basin; • To promote tsunami and other coastal hazards research; • To promote the establishment and further development of national tsunami and other coastal hazards warning and mitigation capacities in accordance with standard protocols and methods; • To develop, adopt and monitor implementation of work plans of the tsunami and other coastal hazards warning system in the Caribbean and Adjacent Regions, and to identify required resources; • To promote implementation of relevant capacity-building; • To liaise and coordinate with other tsunami and other coastal hazards warning systems; • To liaise with other relevant organizations, programmes and projects; • To promote the implementation of the ICG within a multi-hazard framework; • To keep under constant scrutiny the status of the system and how it satisfies the needs.
Sunset clauses	None
Membership	<p>IOC Member States bordering the Caribbean and Adjacent Regions (Tsunami Warning Focal Point-TWFP nominated as of March 2008: Antigua and Barbuda, Bahamas, Barbados, Belize, British Virgin Islands, Colombia, Costa Rica, Dominica, Dominican Republic, France, Grenada, Honduras, Jamaica, Mexico, Netherlands: Aruba, Netherlands Antilles (Bonaire, Curacao, Saba, Saint Eustatius and Saint Marteen), Panama, Saint Lucia, Saint Vincent and the Grenadines, Suriname, Trinidad and Tobago, United Kingdom (Anguilla, Turks & Caicos, Bermuda; Montserrat), United States of America, Venezuela.</p> <p>Observers from other IOC Member States, with nominated TWFP: Canada, Peru</p> <p>Invited observers from other organizations, programmes and projects.</p>
Governance	Officers composed of Chairman and two Vice-chairmen. The Officers meet on the occasion of sessions of the ICG/CARIBE EWS and also at joint sessions of the Working Groups.
Elected/appointed Officers	<p>Chairman: Lorna Inniss (Barbados)</p> <p>Vice-chairman: Israel Matos (USA)</p> <p>Vice-chairman: Gustavo Malave (Venezuela)</p>
Structure	<p>Working groups:</p> <ol style="list-style-type: none"> 1. Monitoring and Detection Systems, Warning Guidance (Chair Christa von Hildebrandt, USA; Vice-Chair Gloria Romero, Venezuela) 2. Hazard Assessment (Chair Aurelio Mercado, USA; Vice-Chair Narcisse Zahibo, France) 3. Warning, Dissemination and Communication (Chair Yauli Oyon, Venezuela, Vice-Chair Trevor Basden, Bahamas) 4. Preparedness, Readiness and Resilience (Chair Julie Leonard, USA; Vice-Chair Juan Luis Guzman, Venezuela)
Sessions held	<p>ICG/CARIBE EWS-I, Bridgetown, Barbados, 10-12 January 2006 (ICG/CARIBE EWS-I/3)</p> <p>ICG/CARIBE EWS-II, Cumana, Venezuela, 12-14 March 2007 (ICG/CARIBE EWS-II/3)</p> <p>ICG/CARIBE EWS-III, Panama City, Panama, 12-14 March 2008 (ICG/CARIBE EWS-III/3)</p>

Secretariat focal point(s)	Bernardo Aliaga			
Website	http://www.ioc-tsunami.org/index.php?option=com_content&task=view&id=168&Itemid=128/			
Sources of funding	In-kind contributions from Member States through national and international projects.			
Financial contributions (US\$)	2006-2007		2008-2009	
	Regular programme	\$—	Regular programme	\$20,000
	Extrabudgetary	\$40,000 (2007)	Extrabudgetary	\$
	Total	\$40,000	Total	\$
Staff (no.)	2006-2007		2008-2009	
	IOC	CARIBE EWS does not have an external secretariat	IOC	
	Seconded		Seconded	
	Total		Total	
Main activities and outputs and contribution to IOC high-level objectives and programme priorities (as identified in Resolution XXIV-2)	Caribbean Training Course in Seismology & Tsunami Warning 25-30 June 2007, in cooperation with SRU Trinidad & Tobago and with USAID/OFDA Formal agreement for free data exchange for a core network of seismic monitoring stations and core network of sea level monitoring stations, approved at ICG/CARIBE EWS-III Database of national focal points (TWFP and TNC) organised and maintained by IOC and reported to Warning Centers.			
Strategic and planning documents	Implementation plan for the CARIBE EWS approved at ICG CARIBE EWS-III			
Cooperation	IOC Subsidiary Bodies	IOCARIBE GEBICO-IBCCA (International Bathymetric Chart of the Caribbean Sea and the Gulf of Mexico)		
	UNESCO Field Offices	IOCARIBE Office		
	UN agencies	WMO ISDR (Office for LAC, based in Panama)		
	Other organizations	CDERA (Caribbean Disaster Emergency Response Agency, based in Barbados) SRU (Seismic Research Unit, based in Trinidad and Tobago) USAID/OFDA (Regional Office based in Costa Rica)		
Issues and risks				
Last external evaluation	—			
Decisions/action required of the 41 st Executive Council				

Title of Subsidiary Body	Intergovernmental Coordination Group for the Tsunami Early Warning and Mitigation System in the North Eastern Atlantic, the Mediterranean and Connected Seas (ICG/NEAMTWS)
Date and resolution of establishment	June 2005, Resolution XXIII-14
Terms of reference	<p>Annex to Resolution XXIII-14</p> <ul style="list-style-type: none"> • Coordinating NEAMTWS activities; • Organizing and facilitating the exchange of seismic, geodetic, sea-level and other data in or near real-time and other required information; • Promoting the sharing of experience and expertise related to tsunami warning and mitigation; • Promoting tsunami research; • Promoting the establishment and further development of national tsunami warning and mitigation capacities in accordance with standard protocols and methods; • Developing, adopting and monitoring implementation of work plans of the ICG/NEAMTWS, and identifying required resources; • Promoting implementation of relevant capacity-building; • Liaising and coordinating with other tsunami warning systems; • Liaising with other relevant organizations, programmes and projects; • Promoting the implementation of the ICG/NEAMTWS within a multihazard framework; • Developing a comprehensive programme of capacity-building on tsunami protection for the north-eastern Atlantic, the Mediterranean and connected seas, including the Black Sea; • Keeping under constant scrutiny the status of the system and how it satisfies the needs.
Sunset clauses	None
Membership	<p>IOC Member States bordering the north-eastern Atlantic and those bordering and within the Mediterranean Sea and connected seas (participating in sessions as of November 2007: Algeria, Belgium, Croatia, Egypt, Finland, Germany, Greece, Ireland, Israel, Italy, Lebanon, Morocco, Norway, Portugal, Romania, Spain, Tunisia, Turkey, UK).</p> <p>Observers from other IOC Member States. Invited observers from other organizations, programmes and projects.</p>
Governance	Bureau composed of Chairman and two Vice-chairmen. The bureau meets on the occasion of sessions of the ICG/NEAMTWS.
Elected/appointed Officers	<p>Chairman: Prof. Stefano Tinti (Italy)</p> <p>Vice-chairmen: Prof. Gerassimos Papadopoulos (Greece)</p> <p>Vice-chairmen: Prof. Maria Ana Batista (Portugal)</p>
Structure	<p>Working groups:</p> <ol style="list-style-type: none"> 1. Hazard assessment, risk and modeling (Chairs: France and Spain) 2. Seismic and geophysical measurements (Chairs: Italy and Germany) 3. Sea level measurements (Chairs: Spain and Algeria) 4. Advisory, mitigation and public awareness (Chairs: UK and Portugal) <p>Task team on the regional architecture of NEAMTWS.</p>
Sessions held	<p>ICG/NEAMTWS-I, Rome, Italy, 21–22 November 2005 (ICG/NEAMTWS-I/3)</p> <p>ICG/NEAMTWS-II, Nice, France, 22–24 May 2006 (ICG/NEAMTWS-II/3)</p> <p>ICG/NEAMTWS-III, Bonn, Germany, 7–9 February 2007 (ICG/NEAMTWS-III/3)</p> <p>ICG/NEAMTWS-IV, Lisbon, Portugal, 21–23 November 2007</p>
Secretariat focal point(s)	Uli Wolf, Stefano Belfiore
Website	http://www.ioc-tsunami.org/index.php?option=com_content&task=view&id=35&Itemid=40
Sources of funding	In-kind contributions from Member States through national and international projects.

Financial contributions (US\$)	2006-2007		2008-2009	
	Regular programme	\$0	Regular programme	\$20,000
	Extrabudgetary	\$66,000	Extrabudgetary	\$ n.a.
	Total	\$66,000	Total	\$
Staff (no.)	2006-2007		2008-2009	
	IOC	NEAMTWS does not have an external secretariat	IOC	NEAMTWS does not have an external secretariat
	Seconded		Seconded	
	Total		Total	
Main activities and outputs and contribution to IOC high-level objectives and programme priorities (as identified in Resolution XXIV-2)	Database of national focal points.			
Strategic and planning documents	Implementation plan for the NEAMTWS V3.2 (IOC Technical Series No. 73)			
Cooperation	IOC Subsidiary Bodies			
	UNESCO Field Offices			
	UN agencies		WMO	
	Other organizations		European Commission ESEAS Med-GLOSS	
Issues and risks				
Last external evaluation	—			
Decisions/action required of the 41 st Executive Council				

Title of Subsidiary Body	Intergovernmental Coordination Group for the Pacific Tsunami Warning and Mitigation System (ICG/PTWS)
Date and resolution of establishment	June 2006, Resolution EC-XXXIX.8 (name change from ITSU to PTWS) June 1965, Resolution IV.6 (established as ITSU)
Terms of reference	<p>Annex to Resolution EC-XXXIX.8</p> <ul style="list-style-type: none"> • To identify the needs and coordinate the activities of the PTWS; • To organize and facilitate as appropriate the exchange of seismic, sea-level and other data in or near real time and information required for the interoperability of the PTWS; • To support the national tsunami warning and mitigation services; • To promote the sharing of experience and expertise related to tsunami warning and mitigation for the Pacific Ocean and adjacent seas; • To promote tsunami research; • To promote the establishment and further development of national tsunami warning and mitigation capacities in accordance with standard protocols and methods; • To develop, adopt and monitor implementation of work plans of the PTWS, and to identify required resources; • To promote implementation of relevant capacity-building, resilience-building and emergency management, including high levels of public awareness; • To liaise and coordinate with the ICGs for other tsunami warning and mitigation systems and to facilitate best practices; • To liaise with other relevant organizations, programmes and projects; • To promote the implementation of the PTWS within a multi-hazard framework; • To develop and promote best practices in tsunami warning and mitigation; • To keep under constant scrutiny the status of the system and how it satisfies the needs; • To arrange for liaison among the various national contact points and tsunami warning centres; • To maintain a current list of operational focal points and facilities for the PTWS and make it available on request to all Member States; • To maintain a list of those countries that are members of PTWS and a list of those countries that are not members, and make this available on the IOC PTWS website; • To initiate and support training activities to enhance and enrich tsunami warning and mitigation in the Pacific Ocean and adjacent seas.
Sunset clauses	None
Membership	<p>Member States of the IOC within and bordering the Pacific Ocean and adjacent seas (32 Member States with Tsunami National Contact-TNC and Tsunami Warning Focal Point-TWFP nominated as of March 2008): Australia, Canada, Chile, China, Colombia, Cook Islands, Costa Rica, Democratic People's Republic of Korea, Ecuador, El Salvador, Fiji, France, Guatemala, Indonesia, Japan, Malaysia, Mexico, New Zealand, Nicaragua, Panama, Papua New Guinea, Peru, Republic of the Philippines, Republic of Korea, Russian Federation, Samoa, Singapore, Thailand, Tonga, Tuvalu (provisional), U.S.A., Vietnam.</p> <p>Observers from other IOC Member States</p> <p>Invited observers from other organizations (including NGOs), programmes and projects, in accordance with the IOC rules and procedures</p>

Governance	<p>Officers of the ICG/PTWS (Resolution EC-XXXIX.8)</p> <ul style="list-style-type: none"> • A Chairperson and two Vice-Chairpersons, who will be elected in accordance with the Statutes and Rules of Procedure of the IOC, • Past Chairperson, • Ex officio Director of the PTWC, • Ex officio Director of the ITIC
Elected/appointed Officers	<p>Chairman: Mr. Mike O’Leary (New Zealand) Vice-Chairman: Mr. Giorgio de la Torre (Ecuador) Vice-Chairman: Mr. Yohei Haegawa (Japan)</p>
Structure	<p>Resolution EC-XXXIX.8) recognizing:</p> <ul style="list-style-type: none"> • Richard H. Hagemeyer Pacific Tsunami Warning Centre (PTWC) in Hawaii as the primary operational centre for the Tsunami Warning and Mitigation System in the Pacific • NWPTAC and PTWC continue to provide interim tsunami advisory information for the South China Sea region, at least until the next meeting of PTWS (ICG/PTWS-XXII) • ITIC continue to be the primary provider of information and expertise for technology transfer, training and capacity-building for the PTWS <p>Steering Committee (ICG/PTWS-XXII.1) comprised of:</p> <ul style="list-style-type: none"> • Elected Officers (Chairman and Vice-Chairman), • Working Group Chairmen • Other members representatives by invitation <p>Steering Committee is charged to;</p> <ul style="list-style-type: none"> – Develop Medium Term Strategy including performance measures – Develop Implementation Plan 2008-2009 – Formulate Governance Model – Develop Strategy for Funding PTWS Activities – Develop an ITIC work plan that focuses on the priorities of the Medium Term Strategy – Evaluate the need for provisional Interessional Working Groups as required in Monitoring, Assessment, Interoperability, Awareness, Regional <p>Working Groups (ICG/PTWS-XXII and ICG/PTWS-XXI):</p> <ol style="list-style-type: none"> 1. Tsunami Warning and Mitigation in the Southeast Pacific Ocean; Terms of Reference as in Annex I of ICG/PTWS-XXII.1 (Colombia, Ecuador, Peru, Chile; Chair Vacant) 2. Tsunami Warning and Mitigation in the Southwest Pacific Ocean Terms of Reference as in Annex II of ICG/PTWS-XXII.1 (Members Countries of SOPAC as members and observers and including France; Chair Dr. Ken Gledhill, New Zealand, Vice-chairs, Fiji and Samoa) 3. Tsunami Warning and Mitigation in the Central American Pacific Coast; Terms of Reference as in Annex III of ICG/PTWS-XXII.1 (Nicaragua, El Salvador, Guatemala, Costa Rica, Panama, representative of Honduras (as soon as they finalized the formal procedure of joining PTWS); Chair Nicaragua) 4. Pacific Emergency Communications and Technologies; Terms of Reference as in ICG/PTWS-XXII.8 (Canada, Chile, Ecuador, New Zealand, Nicaragua, Samoa, USA, PTWS communication providers, and through nomination by the countries, National Tsunami Warning Focal Point and the emergency managers from interested Member States, and representatives from non-PTWS countries as observers; Chair <i>Vacant</i>) 5. Sea Level measurements, data collection, and exchange; Terms of Reference as in the Annex to ICG/PTWS-XXI.2 and in ICG/PTWS-XXII.6) (Chair Australia) 6. Working Group on Interoperability of regional, sub-regional and national tsunami warning systems in the Pacific; Terms of Reference as in the Annex to ICG/PTWS-XXI.2 (Chair USA)

	<p>7. Working Group on rapid near field recognition of tsunamigenic earthquakes and associated tsunamis; Terms of Reference as in ICG/PTWS-XXII.7 (Member States and other interested countries; Chair: Canada)</p> <p>8. Inter-sessional Task Team on Exercise Pacific Wave 08 (EPW08); Terms of Reference as in ICG/PTWS-XXII.5 (PTWC, WC/ATWC, NWPTAC, Australia, New Zealand, Peru, Republic of Korea, the Russian Federation, ITIC; Chair: USA)</p>			
Sessions held	<p>ICG/ITSU-I to XX, 1968 to 2005 every 2 years, various locations</p> <p>ICG/PTWS-XXI, May 2005, Melbourne, Australia</p> <p>ICG/PTWS-XXII, Sep 2007, Guayaquil, Ecuador</p>			
Secretariat focal point(s)	Peter Koltermann			
Website	<p>PTWS: http://ioc3.unesco.org/ptws/</p> <p>ITIC: http://ioc3.unesco.org/itic/</p>			
Sources of funding	<p>2007:</p> <p>IOC Trust Fund Contributions from Korea, New Zealand for PTWS / ITIC activities IOC Regular Programme – ITSU</p> <p>Chile, Japan and the United States of America for the operation of NWPTAC, PTWC, West Coast/Alaska Tsunami Warning Centre WC/ATWC), and ITIC</p> <p>In-kind contributions from Member States through national and international projects.</p>			
Financial contributions (US\$)	2006-2007		2008-2009	
	Regular programme	\$33,000	Regular programme	\$40,000
	Extrabudgetary	\$40,100	Extrabudgetary	\$ n.a.
	Total	\$73,100	Total	\$
Staff (no.)	2006-2007		2008-2009	
	IOC		IOC	
	Seconded		Seconded	
	Total		Total	
Main activities and outputs and contribution to IOC high-level objectives and programme priorities (as identified in Resolution XXIV-2)	<p>Inter-sessional Period (May 2006 – 2007)</p> <p>ITIC organized or assisted:</p> <ul style="list-style-type: none"> • 7 1-week US Geological Survey – IOC Seismology and Tsunami Warning Training Courses in IOTWS, PTWS, CARIBE-EWS (funded by IOC and USAID) • 3 2-week Tsunami Warning and Mitigation Training Courses for PTWS in Hawaii (funded by IOC ITIC, USA, SOPAC, and participant self-funded) • 3 1-day Tsunami Warning and Mitigation Capacity-building Seminars (funded by IOC) • Tsunami Modeling Training <ul style="list-style-type: none"> – 1 2-week Seismology and Tsunami Modeling Training Course for South America in Ecuador, July 2007 (funded by Ecuador and IOC ITIC) – 1 1-week Tsunami Modeling Training Course for South America in Chile (funded by Chile) – planned for May 2008 • Tsunami Capacity Building in Mauritius and Mozambique – 4 1-week consultations/trainings in 2008 • Tsunami Standard Operating Procedures Strengthening Projects <ul style="list-style-type: none"> – 1 9-month consultation/training to Indonesia, Sep 2006 – May 2007 (funded by UNDP) – 1 1-week Regional Training for Indian Ocean and SE Asia (funded by Multi-Donor Trust Fund of UNESCAP) – 3 1-week consultations/trainings to Myanmar, Pakistan, Philippines, Vietnam (funded by Multi-Donor Trust Fund of UNESCAP) - planned for 2008 			

	<p>Global Historical Tsunami Database collected and maintained by WDC-MGG, ITIC, and Novosibirsk Tsunami Laboratory, Russia, and distributed globally online and offline. Recent large data contribution by Japan to database.</p> <p>Through Resolution EC-XXXIX.8,</p> <ul style="list-style-type: none"> • Recalling the IOC commitment to an open, free and unrestricted sharing of tsunami-relevant real-time observational data in accordance with the UNESCO/IOC Oceanographic Data Exchange Policy and without prejudice to the sovereignty of Member States, • Stressing that all Member States should make every endeavour to exchange with other Member States: <ul style="list-style-type: none"> – seismic, sea-level and other data relevant to tsunamigenic events in or near real time, – national assessments and warnings of tsunamigenic events and of tsunamis in a timely manner, <p>Database of Tsunami Warning Focal Points (TWFP) organised and maintained by ITIC and reported to PTWC, WC/ATWC, and JMA. Database of Tsunami National Contacts (TNC) organised and maintained by ITIC and reported to Member States and posted to the ITIC and PTWS web sites</p>	
Strategic and planning documents	<p>Master Plan for the PTWS (revised 2003) PTWS Operational Users Guide (revised 2007)</p>	
Cooperation	IOC Subsidiary Bodies	<p>IODE, GLOSS, GOOS, JCOMM ICG/IOTWS, ICG/CARIBE-EWS, ICG/NEAMTWS</p>
	UNESCO Field Offices	UNESCO IOC JTIC
	UN agencies	WMO, ISDR, UNDP, UNESCAP
	Other organizations	<p>IUGG, ASEAN, SOPAC, ADRC, CPREDENAC, USAID, World Data Center – Marine Geology and Geophysics, US Geological Survey, IRIS Global Seismic Network / FDSN, Univ of Hawaii Sea Level Center, Novosibirsk Tsunami Laboratory</p>
Issues and risks	-	
Last external evaluation	ITSU Programme Review was postponed in 2003, needs new scheduling (Resolution EC-XXXIX.9)	
Decisions/action required of the 41 st Executive Council	Review report of PTWS XXII and decide on recommendations of ICG	

TASK TEAMS

Title of Subsidiary Body	Working Group on Tsunamis and Other Hazards Related to Sea-Level Warning and Mitigation Systems (TOWS-WG)
Date and resolution of establishment	IOC-XXIV.14, June 2007
Terms of reference	<p>(a) Advise on coordinated development and implementation activities on warning and mitigation systems for tsunamis and other hazards related to sea level of common priority to all ICG/TWSs, with special emphasis on:</p> <ul style="list-style-type: none"> (i) harmonization and standardization of relevant observation, data management and communication, forecast and warning practices (ii) development of synergies in capacity-building and outreach activities (iii) reinforcement of intergovernmental, international and national capabilities on hazard knowledge, vulnerability, and impact assessment (iv) effective coordination with all related subsidiary bodies, experts groups and partner organizations with relevant mandates. <p>(b) Report to the IOC Executive Council and Assembly on these common activities and propose new actions, as required.</p> <p>(c) Advise the IOC Executive Council and Assembly regarding:</p> <ul style="list-style-type: none"> (i) instructions to the relevant subsidiary bodies responsible for coordinating the implementation of TOWS-WG actions; and (ii) any liaison or consultation required with relevant international and intergovernmental stakeholders in implementing TOWS-WG actions not under the unique mandate of IOC. <p>2. The TOWS-WG reviews and provides guidance on establishing the framework mechanism for a comprehensive, sustained and integrated end-to-end global system covering tsunami and other hazards related to sea level, exploiting existing IOC mechanisms, capacities and capabilities, and facilitating priority projects and programmes, in alignment with the IOC Strategic Plan and IOC Executive Council decisions and in coordination with relevant stakeholders.</p>
Sunset clauses	None
Membership	<ul style="list-style-type: none"> a) The Chairpersons of the four ICG-TWSs, and of I-GOOS, JCOMM, IODE b) Three Members of the IOC Executive Council, nominated by the Chairperson, taking into account geographical distribution c) High-level representatives invited from the key TOWS-WG stakeholders in disaster risk reduction outside IOC, including WMO and other ISDR System members, FDSN/GSN, and other relevant intergovernmental and international agencies d) Appointed members of the Executive Council may be re-appointed for a second two year term
Governance	Officers composed of an IOC Vice-Chair as Chair and a Vice-Chair
Elected/appointed Officers	Chair: Dr. Neville Smith (Australia), Vice-Chair Dr Francois Gerald (France)
Structure	No further sub-structure
Sessions held	1 st meeting on 3-4 April 2008
Secretariat focal point	Ulrich Wolf
Website	www.ioc-unesco.org

Sources of funding				
Financial contributions (US\$)	2006-2007		2008-2009	
	Regular programme	\$	Regular programme	\$ 9,000
	Extrabudgetary	\$	Extrabudgetary	\$
	Total	\$	Total	\$
Staff (no.)	2006-2007		2008-2009	
	IOC		IOC	
	Seconded		Seconded	
	Total		Total	
Main activities and outputs and contribution to IOC high-level objectives and programme priorities (as identified in Resolution XXIV-2)	High Level Objective (HLO) 1 - Prevention and reduction of impacts of natural hazards in the context of the IOC strategic plan, and within HLO 1 particularly the Main Line of Action 3: Risks from tsunamis and other ocean-related hazards reduced through early warning systems and preparedness and mitigation measures			
Strategic and planning documents	GOHWMS Framework Document			
Cooperation	IOC Subsidiary Bodies	IGOOS, JCOMM, (ICAM)		
	UNESCO Field Offices			
	UN agencies	WMO, ISDR		
	Other organizations	FDSN		
Issues and risks				
Last external evaluation				
Decisions/action required of the Executive Council	Adoption of recommendations of the 1 st meeting Endorsement of the revised GOHWMS Framework Document			

GROUPS OF EXPERTS

Title of Subsidiary Body	Global Sea Level Observing System Group of Experts (GLOSS-GE)
Date and resolution of establishment	The 21 st IOC Executive Council (7-15 March 1988, Paris) established the GLOSS GE; Resolution IOC EC-XXI.2.
Terms of reference	<p>The Terms of Reference for GLOSS were first established in Resolution IOC EC-XXI.2</p> <p>These ToRs were subsequently modified with the adoption of the GLOSS 1997 Implementation Plan by the 19th IOC Assembly and the associated resolution.</p> <p>With the establishment of JCOMM, the GLOSS ToRs were adjusted through IOC EC XXIII (2000) resolution and the latest ToRs are given in Annex I to IOC EC Resolution XXIII-13:</p> <p>(i) Advise JCOMM on the implementation of the GLOSS System, at global and regional levels; (ii) Work closely with the GSC and its subsidiary bodies on the integration of GLOSS into GOOS; (iii) Update the GLOSS Implementation Plan regularly; (iv) Ensure proper liaison with international research programmes and relevant international organizations; (v) Provide advice on the development of TEMA components of GLOSS, regarding training of specialists, provision of instruments, their installation and maintenance, data evaluation and interpretation; (vi) Report periodically to the IOC Governing Bodies and to JCOMM.</p>
Sunset clauses	None
Membership	<p>The composition of the GLOSS GE is not fixed. Invitation is made from the global pool of expertise, based on perceived progress and priorities. [i.e. GLOSS Implementation Plan page 50]</p> <p>Invited observers from other organizations, programmes and projects.</p>
Governance	Group meets every two years.
Elected/appointed Officers	Chairman: Mark Merrifield (USA)
Structure	Scientific Sub-Group of GLOSS (Chair: Gary Mitchum, USA)
Sessions held	<p>GLOSS GE I (19-23 June 1989, Liverpool) GLOSS GE II (22-26 October 1990, Miami) GLOSS GE III (13-15 October 1992, Paris) GLOSS GE IV (31 January - 3 February 1995, Bordeaux) GLOSS GE V (19-21 March 1997, Pasadena) GLOSS GE VI (12-14 May 1999, Toulouse) GLOSS GE VII (26-27 April 2001, Honolulu) GLOSS GE VIII (16-17 October 2003, Paris) GLOSS GE IX (24-25 February 2005, Paris) GLOSS GE X (6-8 June 2007, Paris)</p>
Secretariat focal point(s)	Thorkild Aarup
Website	http://www.gloss-sealevel.org
Sources of funding	In kind: More than 55 Member States contribute observations to GLOSS through sea level observing station networks run by national sea level agencies (i.e. hydrographic/geodetic/port/meteorological agencies or marine institutions). National and international projects contributing to GLOSS.

Financial contributions (US\$)	2006-2007	
	Regular programme	\$ 25,000 (2006-2007)
	Extrabudgetary	\$ 60,000 (2006-2007) Plus earmarked funds for tide gauge upgrades and training in Africa (OdinAfrica) and in the Indian Ocean Tsunami Warning System (Finland and Norway contributions)
	Total	\$ —
Staff (no.)	2006-2007	
	IOC	Thorkild Aarup (~60%)
	Detailed	n.a.
	Total	n.a.
Main activities and outputs and contribution to IOC high-level objectives and programme priorities (as identified in Resolution XXIV-2)	<p>Coordination of global sea level observation activities with the aim of sustaining/developing the GLOSS Core Network. as part of the GOOS.</p> <p>Coordination of implementation of sea level observation networks that contribute to tsunami and hazard monitoring.</p> <p>Hosted and co-organized the WCRP workshop: Understanding Sea Level Rise and Variability (6-9 June 2006, Paris). Book to be published in early 2009.</p> <p>Coordinate training course in sea level observation and data analysis, and technical expert visits.</p>	
Strategic and planning documents	GLOSS Implementation Plan adopted by the 19th IOC Assembly (1997).	
Cooperation	IOC Subsidiary Bodies	GOOS GOOS Regional Alliances JCOMM IOTWS PTWS NEAMTWS CARIB-EWS MedGLOSS (sponsored by IOC and CIESM)
	UNESCO Field Offices	As needed for provision of equipment
	UN agencies	WMO WCRP
	Other organizations	PERSGA ESEAS IHO
Issues and risks		
Last external evaluation		
Decisions/action required of the 41 st Executive Council		