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ASSEMBLY CIRCULAR LETTER 5 bis-6
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1st SESSION OF THE IHO ASSEMBLY

Monaco, 24-28 April 2017

**NOMINATION OF REAR ADMIRAL PATRICIO J. CARRASCO HELLWIG BY CHILE
FOR SECRETARY-GENERAL AND DIRECTOR OF THE IHO**

References:

- A. Conference Circular Letter No.5 dated 14 June 2016 – *Call for Nomination of Candidates for Secretary General and Directors of the IHO*
- B. General Regulations of the IHO, Article 21

Dear Hydrographer,

1. Reference A invited IHO Member States to nominate candidates for the positions of Secretary General and Director of the IHO and indicated that the names of candidates and their nomination forms will be published as soon as they are received.
2. Chile has nominated **Rear Admiral Patricio J. CARRASCO Hellwig** to stand for election at the 1st Session of the IHO Assembly for the post of Secretary-General and for a post of Director of the IHO. The nomination form is enclosed.
3. As required by Reference B, the Secretary-General will collate all the nominations received and present a consolidated inventory as part of the documentation for the consideration of the Assembly.

Yours sincerely,

Robert WARD
Secretary-General

Annex: Nomination Form from Chile

Candidature for a post of¹
SECRETARY-GENERAL
DIRECTOR
(Article 20 of the General Regulations)



Candidature à un poste de¹
SECRETARE GENERAL
DIRECTEUR
(Article 20 du Règlement général)

GENERAL - GENERALITES

1. Nominating Member State - *Etat membre qui présente le candidat* : CHILE
2. Name - *Nom* : Patricio J. CARRASCO Hellwig
3. Nationality - *Nationalité* : Chilean
4. Date of birth - *Date de naissance* : 11 October 1962
5. Titles and decorations - *Titres et décorations* :

Chilean Navy Rear Admiral – Current Director of the Chilean Navy Hydrographic and Oceanographic Service (SHOA) – Chilean Hydrographer
President of the National Oceanographic Committee and Head of the National Tsunami Warning System (SNAM).

37 years of active service in the Chilean Navy.

Bachelor's degree in Naval and Maritime Sciences and a professional degree in Weapons Engineering with a major in Navigation Systems(1988) and Hydrography (1989).

Hydrographic Engineer from the Hydrographic Institute of the Spanish Navy (1992).

President of the Republic Decoration in the degree of Grand Officer.

Great Military Merit Star for 30 years of service.

Military Merit Star for 20 years of service.

Military Star for 10 Years of Service.

Minerva Medal for Engineering Specialty Course.

Medal of Education Directorate of the Navy. 1st place in the Specialty Course of Hidrography.

Argentine Navy Medal. Class highest average during his five years period at the Naval Academy.

EDUCATION AND LANGUAGES - ETUDES ET LANGUES

6. Education (periods, including specialized or special qualifications) - *Etudes (durée, y compris les qualifications spécialisées ou particulières)* :

Primary School (up to second year of secondary school)

He studied at St. Dominic School (Viña del Mar, Chile), San Gabriel School (Santiago, Chile), Patrick Henry / Minnie Howard School (Alexandria – Virginia, United States of America,), Sagrados Corazones School (Santiago, Chile,).

Higher Education (from second year of secondary school)

In 1982, he graduated from the "Arturo Prat" Chilean Naval Academy,. He holds a bachelor's degree in Naval and Maritime Sciences and a degree in Weapons Engineering with a major in Navigation Systems (1988) and Hydrography (1989).

¹ Tick one box or both

In 1992, he earned his degree of Hydrographic Engineer from the Hydrographic Institute of the Spanish Navy (1992), recognized by the International Federation of Surveyors (FIG) and the International Hydrographic Organization (IHO).

In 1994, he took the Pedagogical Training Course at the Education Directorate of the Chilean Navy and in 1996 he was conferred the title of Professor in Hydrography. In November 2000, he approved the Course on Information for Staff Officers at the Naval War College.

Among his several national and international courses, trainings, seminars, conferences and technical meetings in which he has participated, in 1997 he took the course on Coastal Surveys using Multibeam Echo Sounders at the New Brunswick University, Saint Andrews, Canada and in 2002, the Course on Preparation and Assessment of Projects at the Latin American and Caribbean Institute for Economic and Social Planning (ILPES) in UNESCO, Chile.

7. Languages (speaking and reading capacity) - *Langues (niveau oral et écrit) :*

Spanish	(Native)
English	(Fluent Speaking, reading and writing)
French	(Listening, understanding and reading)

SERVICE AND EXPERIENCE² - SERVICES ET EXPERIENCE²

8. Hydrographic service - *Services dans l'hydrographie :*

Between 1992 and 1997, he served as Specialist on various positions in the Hydrographic and Oceanographic Service of the Chilean Navy, such as, Head of the Hydrographic Survey Department; Head of the Planning Office; Head of Hydrographic Groups in different field commissions, all over the country, including the Southern Ice field and Antarctica.

In 1999, he was again requested by the Hydrographic and Oceanographic Service of the Chilean Navy to be part of its staff, where he served as Chief of Special Projects Office; Head of the Hydrographic Survey Department (2001-2002) and Head of the Development and Research Department (2002-2005).

In 2006, he served as Head of the Technical Area, in charge of four departments, and between 2007 and 2009, he served as Deputy Director.

During all the above-mentioned roles, he was responsible for designing, conducting and managing various projects, changing current systems for high advanced technology; designing and adopting new processes and production systems; implementing a Corporate Database, building a Geospatial Data Infrastructure; Information Management Database; a Hydrographic Production Database and a Global Service Computer System Restructuring. All these projects had a wide effect over the whole organization which results have been national and internationally recognized.

Some of them have been the use of DGPS, Satellite imagery and Multibeam Echosounder Systems for Hydrographic Surveys; Planning, Surveying and Processing Softwares; the establishment of the High Level Request for a new Oceanographic Ship; the implementation of ISO 9000 standards for the Cartographic Production and Print on Demand process; the acquisition of a new Hydrographic Survey Boat, equipped with a Multibeam Echosounder System; the construction of new workshop facilities at SHOA and the development and operation of the equipment, procedures, list of actions, training and backup systems for the new Chilean Tsunami National Warning System that has become a reference and an example for many countries around the world looking to implement a similar facility, .

² All service and experience relevant to the nomination and which provide an indication of the extent to which the candidate is qualified to serve as Secretary-General or Director.

Tout service et toute expérience en rapport avec la candidature donnant une indication de la mesure dans laquelle le candidat est qualifié pour occuper le poste de Secrétaire général ou de Directeur.

Accordingly, he has participated in a numerous of International Meetings and Technical Working Groups as representative of Chile, taking part of, or being the Head of the Chilean Delegation for the creation, negotiation and signing of cooperation agreements and strategic alliance with congener national and international organizations; partner companies and also with public and private organizations related to navigation, hydrography, oceanography and maritime engineering.

Regarding the above mentioned, he has being moderator in several meetings and working groups, and a permanent participant in the Strategic Planning Working Group (SPWG) meetings that took place for several years and that finally accomplished the process and procedures to make the changes that will take place at IHO in the coming months.

He has served as teacher and instructor for several courses; both in matters related to his specialty and other areas such as leadership, command and management, writing several articles that have been published in different national and international journals.

On 5 March 2010, he was appointed as Director of the Hydrographic and Oceanographic Service of the Chilean Navy (SHOA); position he holds till now. On January 01, 2014 he is promoted to Rear Admiral of the Chilean Navy.

At the National level, Rear Admiral Carrasco is president of the National Oceanographic Committee (CONA) and Head of the Training Centre of the Hydrographic and Oceanographic Service of the Chilean Navy. At the international level, he is the Chilean representative to the International Hydrographic Organization (IHO); the Steering Committee of the General Bathymetric Chart of the Oceans (GEBCO) and the Intergovernmental Oceanographic Commission (COI), among others. Likewise, between 2011 and 2015, he took over as Vice-President of Intergovernmental Coordination Group for the Pacific Ocean Tsunami Warning and Mitigation System (IGC/PTWS).

9. Non-Hydrographic service - *Services autres qu'hydrographiques* :

During his professional career in the Navy, between 1983 and 1992, he has occupied several positions such as student, Officer in charge, Secretary and Officer Instructor on board the "Esmeralda" Training Ship.

In 1998, he was appointed Instructor and Head of the 1st year students at the Chilean Arturo Prat Naval Academy.

On 16 December 2009, he took over as Academic Deputy Director of the Naval Polytechnic Academy, a position that he held until his appointment as Director of the Hydrographic and Oceanographic Service of the Chilean Navy on 5 March 2010.

10. Scientific Activities - *Activités scientifiques* :

President of the National Oceanographic Committee since 05 March 2010, with the mandate of advising and coordinating the institutions that carry out ocean research in their different aspects in the field of oceanography in Chile, advising and coordinating national agencies and entities engaged in ocean and natural resource research. Also to develop, promote and maintain, in a coordinated, systematic and short, medium and long-range, programs for national institutions in the field of marine sciences, to enable them to acquire, among others, scientific knowledge of the ocean, its natural resources, its energy sources, its soil and subsoil, its interaction with the atmosphere, health and property protection, and a greater and better use of these resources and possibilities. Also to give scientific and technical advice in all disciplines that comprise the marine sciences, in order to study and evaluate the various matters addressed by international organizations and to formulate proposals and suggestions for the national and science interest.

Member of the Chilean College of Engineers.

Publications:

Carrasco H., Patricio. 1988. The Electronic Chart. Viña del Mar, Escuela de Operaciones de la Armada, 106 p.

Carrasco Hellwig, Patricio. 1989. Determination of a model for the transition from manual cartographic processes to automated cartographic processes. Valparaíso, Instituto Hidrográfico de la Armada. 82 p.

Carrasco Hellwig, Patricio. 1991. Enlisting a vessel to develop a hydrographic commission. Valparaíso, Armada de Chile. 76 p.

Carrasco Hellwig, Patricio. 1997. Computer-aided Nautical Chart correction. Revista de Marina, (6), pp.576-583.

Carrasco Hellwig, Patricio. 1997. Computer-aided Nautical Chart correction: A SHOA project. Anuario Hidrográfico de la Marina de Chile, (49), pp.104-111.

Carrasco Hellwig, Patricio. 2003. Hydrographic and Oceanographic Service of the Chilean Navy SHOA, on the way to a digital, efficient and modern Hydrographic Office. Revista de Marina, (6), pp.573-577.

Carrasco Hellwig, Patricio. 2004. SHOA on the move. Towards an efficient, digital and modern HO. Hydro International, 8 (8), pp.54-57.

Carrasco Hellwig, Patricio. 2008. Conversion from High Seas Patrol to a Hydrographic Ship. Hydro International.

Carrasco Hellwig, Patricio. 2014. 140th Anniversary of SHOA. Anuario Hidrográfico de la Marina de Chile, (66), pp.110-119.

Carrasco Hellwig, Patricio. 2015. 2015: Two milestones of so many to not forget. Anuario Hidrográfico de la Marina de Chile, (67), pp.111-115.

CANDIDATE'S POSITION - POSITION DU CANDIDAT

The IHO is an inter-governmental organization, integrated and funded by governments, aiming at accomplishing Member States needs and priorities in the field of Hydrography. This organization has been running successfully since its establishment, but as all inter-governmental bodies, there is a need to work primarily and constantly towards the enhancement and improvement of its effectiveness and efficiency. There are many matters of concern, but in order to successfully achieve the best possible results, an open, honest, positive, responsible, respectful and permanent relationship with Member States National Hydrographers shall constitute a top priority. I have developed my professional skills in the Hydrography area serving at the Chilean Navy Hydrographic and Oceanographic Service (SHOA) almost all my naval career, executing several activities from the basic to the highly complex ones, including field surveys, technical, scientific, administrative and management disciplines and also having the chance to be part of many discussions and complex work with National Governmental Authorities, carrying with me the experience of three Tsunami Emergencies in the Country and their implications. The same with International bodies, working groups, executive councils, conference participants and many other people groups; looking always forward in order to find solutions, in a real and effective time line, with concrete actions, rather than only words, paper conclusions and recommendations.

I am perfectly aware and updated of the recent past, present and future demands from HO's, as well as the challenge as the Chilean Hydrographer, to place my Organization (SHOA) at the front line of successful development, with limited human and financial resources. Being in charge of the Chilean Hydrographic Service, with fresh energy to make things happen and having had the chance along my years in the Service, to visit many Hydrographic Offices and learn about their needs and concerns, makes me believe that I can offer my experience gathered during my career and particularly during these last

seven years as Director of SHOA, to work together to improve effective actions to fulfill requested needs from Member States. As indicated, my priority will be to contribute and support all initiatives aiming at improving present Member States to ensure the provision of the Hydrographic Services and pursuing IHO's mission and objectives.

But the IHO cannot stand in a separate place, disconnected from the real world. The IHO needs to work as close as possible to other International Organizations, Governmental and Non-Governmental; the end users; the industry; the Academia and the funding agencies. To move in the correct direction, we need to assign the second high priority to these relationships. We need to make the Organization more visible and my experience in promoting what an organization has done and is doing and the new challenges it will be facing, can also be achieved with the compromise of the Member States. To ensure success, the IHO needs a Secretariat that works as a "team", able to discuss with fundamentals; analyse with open mind; evaluate with responsibility and find the best practice and position. For the interest of the IHO, on the many subjects to deal with, the Secretariat must provide just "one voice" position/outcome. My participation in many working teams established to deal with a variety of topics, in different scenarios with different communities, including governmental authorities, international officers, has been an excellent school where I developed managerial skills where organization, diplomacy, knowledge, capacity to listen and to summarize outcomes are required. The Secretariat needs a "great solid team" and I feel I can contribute positively to such team.

It is a fact that IHO membership is not in line with the worldwide importance the ocean has been recognized by different international, regional and national communities. There is a missing link that needs to be recognized and in my opinion that missing link is called credibility/confidence. The technological transference concept and capacity building/development shall be "water clear" and seen by beneficiaries, particularly those countries without a hydrographic infrastructure, as a real contribution to their development and not as an imposition to be followed to incorporate mandatory regulations, over which they probably have had no control at all. The experience I have is that those open dialogues give the floor to true cooperation and solution of differences in a participative non prescriptive approach. I am not claiming to have the solution, but certainly this third priority deserves the attention of all IHO Member States and I think I have the experience to lead and contribute responsible and positively to this goal.

Finally, I would like to make reference to the Secretariat, as a human team. The nearly 20 people that on a daily basis contribute to the success of the IHO, deserve knowledgeable authorities, and at the same time, authorities that do not forget that the power of all organizations rests on the personnel that integrates such organization. The climate of respect; recognition of the work well done; respect of rights and duties, as well as the timely provision of clear instructions and corrections when needed, shall prevail and be observed. I have conducted and commanded teams of over 350 people, for many years, in very hard and stressing conditions, finding that knowing each one of them personally and being aware also of their needs, problems, expectations and characteristics, from a human perspective also contributes to the organization's mission and objectives. That's why I have always given a high priority to the personnel that I work with.

For all these reasons, I believe I am in position to assume as Secretary-General if Member States so decide it; or to support the elected Secretary-General in the IHO Director's position also if Member States so decided.

ADDITIONAL INFORMATION - RENSEIGNEMENTS COMPLEMENTAIRES
(if any) (le cas échéant)

In 2015, Admiral Patricio Carrasco, Director of the Chilean Hydrographic and Oceanographic Service received the UK Hydrographic Office (UKHO) Alexander Dalrymple Award, that recognizes the outstanding dedication and major contribution to World Hydrography.

Rear Admiral Carrasco is married to Mrs. Soledad Figari and have five children José Patricio, Sebastián Andrés, Magdalena Sofía, Nicolás Felipe and Vicente Matías.

Date : 05 DIC 2016

Rear Admiral Patricio J. Carrasco

Signature of candidate:

Signature du candidat :

Forwarding Authority - Autorité qui transmet :

Enrique Larrañaga
Admiral
Commander in Chief of the Chilean Navy

Signature of forwarding authority:

Signature de l'autorité qui transmet :

