

Dossier de la OHI N° S1/6100/2026

CARTA CIRCULAR DE LA ASAMBLEA N°2 Bis2
16 de junio del 2025

4ª SESIÓN DE LA ASAMBLEA DE LA OHI (A-4)

Mónaco, 19-23 de abril del 2026

NOMBRAMIENTO DEL CONTRALMIRANTE LUIGI SINAPI
POR ITALIA
COMO CANDIDATO A SECRETARIO GENERAL Y DIRECTOR DE LA OHI

Referencias:

- A. Carta Circular de la Asamblea N° 2 de fecha 29 de abril del 2025 – *Solicitud de nombramientos de candidatos para los puestos de Secretario General y Director de la OHI.*
- B. Reglamento General de la OHI, Artículo 21
- C. Reglamento General de la OHI, Artículo 26 (a)

Estimado(a) Director(a),

1. La Referencia A invitaba a los Estados Miembros de la OHI a nombrar candidatos para los puestos de Secretario General y Director de la OHI, e indicaba que los nombres de los candidatos y sus formularios de candidatura se publicarían en cuanto se recibieran.
2. Italia ha nombrado al **Contralmirante Luigi SINAPI** para su elección (Referencia C) en la 4ª Sesión de la Asamblea de la OHI para el puesto de Secretario General y Director de la OHI. Adjunto se remite el formulario de candidatura.
3. Como establece la Referencia B, el Secretario General recopilará todas las candidaturas recibidas y presentará una lista unificada como parte de la documentación para su consideración por la Asamblea.

Atentamente,



Dr. Mathias JONAS
Secretario General

Anexo: Formulario de Candidatura de Italia



Candidature for a post of¹
SECRETARY-GENERAL ☒

DIRECTOR ☒

(Article 20 of the General Regulations)

Candidature à un poste de¹
☒ SECRETAIRE GENERAL

☒ DIRECTEUR

(Article 20 du Règlement général)

GENERAL - GENERALITES

1. Nominating Member State - *Etat membre qui présente le candidat* : ITALY
2. Name - *Nom* : LUIGI SINAPI
3. Nationality - *Nationalité*: ITALIAN
4. Date of birth - *Date de naissance* : 27 August 1967
5. Titles and decorations - *Titres et décorations*:

Italian Navy Rear Admiral

IHO Director Inter-Regional Coordination and Support Programme, since 1 September 2020

Director of the Istituto Idrografico della Marina – Hydrographer of ITALY, October 2015 – July 2020

"5 + 5 Defence" Initiative recognition, 2022

Silver Medal of Merit for Long Command, 2020

Mauriziana Medal for the 50 years of military service, 2019

Commemorative Medal for Multinational Peace Operations in Kosovo, United Nations resolutions 1244/99, 2018

Knight of the Order of Merit of the Italian Republic, 2014

Italian Legal Advisor for Military Operations, 2004

NATO Medal Kosovo, 2001

NATO Medal Former Yugoslavia, 2001

Commemorative Medal for Antarctic Mission, 1999

EDUCATION AND LANGUAGES - ETUDES ET LANGUES

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

5 + 5 Defence Initiative – 9th Training for "senior", Ecole Militaire Paris, 2018

Diplôme d'études en langue française - DELF B1 level certificate in French language, 2017

¹Tick one box or both

Cocher une case ou les deux

II level Master Degree in Marine Geomatics, University of Genoa, 2008

Master of Sciences Degree in International and Diplomatic sciences, University of Trieste, 2004

II level Master Degree in International strategic and military studies, Centre for the Defense High Studies (CASD) and LUISS University, Rome, 2004

Bachelor Degree in Navigation and Maritime Science, University of Pisa, 2002

IHO-FIG-ICA Category A Hydrographer certification, 1996

Master of Sciences Degree in Physics, University of Lecce, 1996

Course for Hydrographers Category A at the Istituto Idrografico della Marina di Genova, 1992 – 1993

Corso Superiore at the Naval Academy, Livorno, 1992

Corso Normale at the Naval Academy, Livorno, 1985 -1989

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

Italian (native speaker)

English (fluent in speaking and reading)

Spanish (fluent in speaking and reading)

French (good in speaking and reading)

SERVICE AND EXPERIENCE² - *SERVICES ET EXPERIENCE²*

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

Present – As IHO Director, RAdm SINAPI is responsible of Inter-Regional Coordination Committee (IRCC) and its subordinate bodies, including International Board of Standards of Competences (IBSC) and General Bathymetric Chart of the Ocean (GEBCO), relations with FIG, GEO, IOC-UNESCO, the academic sector (education and training), and other relevant organizations, concerning the IRCC program; Capacity Building (CB), Training, Education and Technical Co-operation, including CB Work Programme, CB Fund and budget; Advisory Board on the Law Of the Sea (ABLOS); IHO Publications; International Hydrographic Review; IHO Assembly; IHO Annual Report; and the following Regional Hydrographic Commissions as permanent observer on behalf of the IHO Secretariat:

- Mediterranean and Black Seas Hydrographic Commission (MBSHC);
- Meso American - Caribbean Sea Hydrographic Commission (MACHC);
- South-East Pacific Regional Hydrographic Commission (SEPRHC);
- ROPME Sea Area Hydrographic Commission (RSAHC);
- South West Atlantic Hydrographic Commission (SWATHC).

May 2025 – High Level Visit to the REPUBLIC OF GUATEMALA

April 2024 – High Level Visit to COMMONWEALTH OF THE BAHAMAS

December 2023 – High Level Visit to JAMAICA

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.

² *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.*

November 2023 – High level Visit to the DOMINICAN REPUBLIC

March 2023 – present – Responsible for the execution of the Letter of Intent between the International Hydrographic Organization (IHO) and the World Maritime University (WMU) of the International Maritime Organization (IMO)

September 2022 – High Level Visit to the PLURINATIONAL STATE OF BOLIVIA

September 2020 – present – **IHO Director Inter Regional Coordination and Support Programme**

January 2018 – July 2020: Italian Hydrographic Society (IHS) representative at Board of Directors of International Federation of Hydrographic Societies (IFHS)

November 2017 – August 2020: IHO – Hydrographic Services and Standards Committee (HSSC) Chair

October 2017 – July 2020: Member of ITALY at the IHO COUNCIL

August 2017 – July 2020: Representative of ITALY as Associate Member of IHO – Arctic Regional Hydrographic Commission (ARHC)

July 2017 – July 2019: IHO - Mediterranean and Black Seas Hydrographic Commission (MBSHC) Chair

June 2016 – July 2020: Representative of ITALY at the Hydrographic Commission on Antarctica (HCA)

February 2016 – January 2017: Head of the Hydro-Oceanographic Office at the Italian Navy Headquarters

October 2015 – July 2020: **Director of the Istituto Idrografico della Marina – Hydrographer of ITALY**

February 2001: Liaison hydrographic Officer onboard US NAVOCEANO launch for the joint ITA-USA hydrographic survey in the Naval Base of Gaeta (I)

November 2000 – January 2001: Oceanographic Branch Staff Officer NATO Command Naval South Europe (COMNAVSOUTH)

March 1998 – October 2000: Head of the Hydrographic Division at the Italian Hydrographic Institute

October 1997 – February 1998: Head of the first marine trials of the European Geostationary Navigation Overlay Service (EGNOS) from Italian survey vessel "Mirto"

September 1996 – September 1997: **Commanding Officer of Italian Navy SURVEY VESSEL "MIRTO" employed during maritime surveys along the Italian coasts**

February 1996: Head of the Hydrography and Nautical Cartography team in the 11th Antarctic expedition within the Italian Antarctic Research Program

October 1994 – January 1996: Hydro-oceanographic Officer onboard the hydrographic Italian ships "Ammiraglio Magnaghi" and "Mirto"

June 1993 – September 1994: Head of several hydrographic and geodetic campaigns in Italian waters and along Italian coasts

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

November 2014 – October 2015: Head of the 1st Division of the LOGISTIC Department of the Navy General Staff

October 2013 – October 2014: Head of the 5th Division of the OPERATION Department of the Navy General Staff

September 2012 - September 2013: Commanding Officer of the Italian Navy DESTROYER "LUIGI DURAND DE LA PENNE"

August 2007 - August 2012: Head of the 1st Division of the FINANCIAL PLANNING Department of the Navy General Staff

September 2005 - July 2007: Commanding Officer of Italian Navy FRIGATE "ZEFFIRO"

July 2004 - August 2005: Executive Officer of the Italian Navy FRIGATE "ALISEO"

September 2003 - June 2004: Selected to attend the Joint General Staff Superior Institute in Rome

November 2001 - August 2003: Standing Naval Force Mediterranean (STANAVFORMED) Liaison Officer at NATO Command Naval South Europe (COMNAVSOUTH)

September 1997 - February 1998: Selected to attend the XX General Staff Course at the War School in Livorno

March 1996 - July 1996: Selected to attend the 191st Commanding Officer School section

April 1990 - August 1992: Navigating Officer and Deputy Telecommunications Officer on Italian Navy AIRCRAFT CARRIER "GIUSEPPE GARIBALDI"

10. Scientific Activities – *Activités scientifiques*

2023 – present: Member of the "Advisory Board of the Centro del Mare" at the University of Genoa, Italy

2022 – present: Lecturer at the "Intelligent Infrastructure Course for Intrapreneurial Students" of University POLITECNICO of Turin, Italy

2021 – present: Lecturer at the "Master's Degree in Maritime, Port and Logistics Law" of University of Bologna, Italy

2021 – present: Lecturer at the course on "Maritime and air transport science and logistics" of University of Messina, Italy

2019 – 2020: Member of the Italian delegation at Antarctic Treaty Consultative Meeting (ATCM)

2019 – 2020: Responsible of the "Framework Agreement in Marine Research and training in Oceanography" with the Parthenope University of Naples (I)

2019 – 2020: Member of the national "Joint Research Unit – European Multidisciplinary Seafloor and Water Column Observatory (JRU-EMSO)"

July 2019: Coordinator of the "Italian Navy Arctic Marine Geophysics Campaign - HIGH NORTH 19"

2018 – 2020: Member board of the Cluster technological national Blue Italian Growth (CTN-BIG) created by National Law n°123 of 3rd of August 2017

2018 – 2020: Lecturer at the Professional Master in Sustainable Development, geopolitics of resources and Arctic Studies at the Italian Society for International Organization (SIOI), Rome (ITALY)

2018 – 2020: Responsible of the "Framework Agreement in Marine Research and training in Hydrographic and Oceanographic sciences" with the University of Cagliari

July 2018: Coordinator of the "Italian Navy Arctic Marine Geophysics Campaign - HIGH NORTH 18"

2017 – 2018: Chairman of the "Tavolo Tecnico Interministeriale Italiano per la Rideterminazione delle linee di base dritte e delle linee di chiusura delle baie naturali e storiche", Rome (ITALY)

August-September 2017: Speaker at Jean Monnet Module European Union and the Law of the Sea (EULOS) – Summer School 2017, Genoa (ITALY)

July 2017: Coordinator of the "Italian Navy Arctic Marine Geophysics Campaign - HIGH NORTH 17"

2017 – 2020: Member of the "Consulta Nazionale per l'Informazione Territoriale e Ambientale – CNITA"

- 2017 – present: Member of the “Italian Hydrographic Society (IHS)”
- 2016 – present: Member of the scientific board of The INTERNATIONAL PROPELLER CLUB – GENOA (ITALY)
- 2016 – 2020: Professor of Hydrography at the “II Level Master in Marine Sciences: Ocean Physics and Technology”, organized by the Parthenope University of Napoli and Alma Mater Studiorum University of Bologna (I), and by the Italian Navy
- 2015 – 2020: Member of the National Arctic Committee and of International Arctic Council EPPR (Emergency Prevention, Preparedness and Response) WG
- 2015 – 2020: Member of the National Council of Public Works “Consiglio Nazionale dei Lavori Pubblici”
- 2015 – 2020: Member of the National Cartographic Committee (AIC), member of the National Remote Sensing Association (SIFET) and member of the Italian Federation of the Scientific Association Environmental and Territorial Information (ASITA)
- 2015 – 2020: Member of the National Oceanographic Committee “Commissione Oceanografica Italiana – COI”
- 2015 – 2020: Member of Digital Italy Agency “Agenzia per l'Italia Digitale – AGID”
- 2001 – 2004: Visiting Professor of “Hydrography and Geodesy” at the Parthenope University, Napoli (I)

Bibliography

International Review and Books

“Integrated Mapping of the Seafloor Applied to Different Environments with Innovative Technologies: The Case Study of Molloy Hole (Arctic Ocean)” – with Ivaldi R., Palacios Torres G., Demarte M., Nardini R. in: Daponte P., Klosak M., Bendarma A., *Modern Technologies Enabling Innovative Methods for Maritime Monitoring and Strengthening Resilience in Maritime Critical Infrastructures*, NATO Science for Peace and Security Series - D: Information and Communication Security eBook, Volume 65, November 2024.

“The International Hydrographic Organization (IHO) S-100 – Universal Hydrographic Data Model: a new revolutionary way to represent the marine environment” with Nyberg J., *The International Pilot – The magazine of the International Maritime Pilots’ Association (IMPA)*, Issue 56, July 2024.

“Hydrography & Naval Cartography – Interview with Rear Admiral Luigi Sinapi, Director Inter-Regional Coordination & Support Programme of the International Hydrographic Organization”, *NAVAL FORCES O.*, II/2023 Vol. XLIV, February 2023.

“The naval officer who aims to boldly go where no seabed mapper has gone before” – Guy Toremans interviews Rear Admiral Luigi Sinapi, *WARSHIPS International Fleet Review*, January 2023.

“Hydrography: From Marine Data to Information” with Pizzeghello N.M. in: Daponte, P., Rossi, G.B., Piscopo, V. (eds) *Measurement for the Sea*, Series in Measurement Science and Technology. Springer, 24 January 2022. Cham. https://doi.org/10.1007/978-3-030-82024-4_1.

“Special – IHO Directing Committee contribution” with Kampfner A., Jonas M., *International Hydrographic Review (IHR)*, Vol. 25, May 2021.

“Tidal inlet seafloor changes induced by recently built hard structures” – with Madricardo F., Molinaroli E., Fogarin S., Kruss A., Petrizzo A., Pizzeghello N.M., Trincardi F., *PloS one*, journals.plos.org, 16 October 2019. (<https://doi.org/10.1371/journal.pone.0223240>).

“New Arctic geophysical data from the Yermak Plateau (northern Svalbard margin)” – with Demarte M., Ivaldi R., Rebesco M., *Geophysical Research Abstracts*, Vol 21, 2019.

“High-Resolution multibeam and hydrodynamic datasets of tidal channels and inlets of the lagoon of Venice”, with Madricardo F. et al., *Scientific Data* 4, Article number: 170121, 05 September 2017.

"The Graham Bank: hydrographic features and safety of navigation", with Lamberti L.O., Pizzeghello N.M., Ivaldi R., *International Hydrographic Review (IHR)*, Vol. XX, May 2016.

"Optimum trigonometric ellipsoidal height, direct and inverse", with Caporaso U., Vassallo A., *International Hydrographic Review (IHR)*, Vol. 5, N. 2, November 2004.

"Determination of the azimuth with solar observations without any particular astronomical knowledge and spherical trigonometry", with Vassallo A., *Survey Review*, Vol. 37, N. 293, May 2004.

"External alignment between two beacons at different elevation for use in bathymetric operations", with Vassallo A., Gargiulo R., *International Hydrographic Review (IHR)*, Vol. 4, N. 2, November 2003.

"A morphometric model of the Aeolian Islands (Italy)", with Bissoni M., Favalli M., Mazzarini F., Mori A., Pareschi M.T., *Il Nuovo Cimento*, Vol. 26 C, N. 4, 2003.

"Nautical cartography in the Ross Sea – Antarctica", with Gargiulo R., *Annali Facoltà di Scienze Nautiche Napoli (I)*, Vol. LXVI, 2002.

"The first EGNOS Trials at Sea: In Columbus' week", with Basker S., Solari G., Secretan H., Barboux J.P., *GALILEO'S WORLD Ed.*, 2000.

National Review

"Ocean's knowledge: the role of the International Hydrographic Organization in the incoming decade" Sinapi L. in OGS (National Institute of Oceanography and Applied Geophysics), *Bulletin of Geophysics and Oceanography*, Vol. 62, Supplement N.3, September 2021.

"Mareometria e GNSS", with Squerso D., Betti B., Demarte M., Federici B., Pierozzi M. - Bollettino della ASSOCIAZIONE ITALIANA di CARTOGRAFIA 2018 (164), 2018, 139-144.

"La misura del tempo", with Vassallo A., *Anno CXXI*, Rivista Marittima, Ottobre 2008.

"L'arte della navigazione nei secoli", with Vassallo A., *Anno CXXI*, Rivista Marittima, Gennaio 2008.

"La misura spaziale di Eratostene", with Vassallo A., *Anno CXXXIX*, Rivista Marittima, Novembre 2006.

"Idrografia e diritto", *Anno CXXXIX*, Rivista Marittima, Aprile 2006.

"Un approccio geodetico ed astronomico alla conoscenza della terra geometrica", with Vassallo A., *Informazioni della Difesa*, Giugno 2005.

"L'esercitazione navale «IONEX 2004» un passo significativo verso la cooperazione italo-russa", *Informazioni della Difesa*, Gennaio 2005.

"I due problemi fondamentali della geodesia per la navigazione astronomica, in forma algebrica, sulla sfera terrestre e sull'ellissoide WGS'84", with Vassallo A., *Annali Facoltà di Scienze Nautiche, Napoli (I)*, Vol. LXVIII, 2004.

"Azimut e punto nave astronomico con assorbimento intrinseco del cammino nave negli intervalli delle osservazioni", with Vassallo A., *Annali Facoltà di Scienze Nautiche, Napoli (I)*, Volume LXVII, 2003.

"L'informazione geografica e la qualità dei dati", with Gargiulo R., *Informazioni della Difesa*, Gennaio 2003.

"Il grid kilometrico della Mercator Secante e sue applicazioni operative", with Gargiulo R., Lusiani P., Vassallo A., *Istituto Idrografico della Marina Ed.*, Genova (I), I.I. 3166, 2002.

"Il concetto di «Rapid Environmental Assessment» nelle operazioni navali NATO", with Gargiulo R., *Informazioni della Difesa*, Febbraio 2002.

"Il modello tridimensionale dell'Arcipelago Eoliano: un esempio d'integrazione tra rilievo fotogrammetrico e batimetrico", with Favalli M., Mori A., Pareschi M.T., Sinapi L., Surace L., *Bollettino di Geodesia e Scienze Affini*, Anno LXI, N.1, 2002.

"Antartide", with Gargiulo R., *Rivista Marittima Ed. Dicembre*, 2000.

"L'EGNOS: caratteristiche generali e primi test operativi in mare", with Surace L., *Bollettino SIFET*, N. 4, 2000.

"La cartografia nautica in Antartide", with Gargiulo R., Mori A., Surace L., *Bollettino SIFET*, N. 3, 2000.

"Errori commessi in un rilievo idrografico e differenti tecniche di modellazione tridimensionale", with Mori A., Spagnuolo A., Pizzi C., *Istituto Idrografico della Marina Ed.*, Genova (I), I.I. 3085, 2000.

Proceeding of International Conference

"Seabed Mapping: the Key from Science to Policy to Practice for a Sustainable Ocean" Sinapi L., in *Investing in Ocean Solutions: towards a brighter future for the Ocean* Workshop, United Nations DESA in collaboration with UNOSD, Incheon (ROK), 14-15 January 2025.

"Safety and security in Mediterranean Straits" Sinapi L., *43rd CIESM Congress*, Palermo (I), 14-19 October 2024.

"Mapping the Seafloor as the key to preserve the Underwater" Sinapi L., *XIV Trans-Regional Seapower Symposium*, Venice (I), 7-10 October 2024.

"The Empowering Women in Hydrography project: Promoting transformative changes to improve gender balance" Sinapi L., *Conference of John Percival Marine Associates/Hoylake Sailing School Ltd., Association of Women in Yachting*, Monaco Yacht Show 2024, Monaco (Monaco), 26 September 2024.

"The role of the International Hydrographic Organization in the world of shipping" Sinapi L., *Propeller Club of Monaco*, Monaco (Monaco), 19 September 2024.

"The S-100 Standard: the new digital approach to representing the marine environment" Sinapi L., *26th International Maritime Pilots' Association - IMPA Congress*, Rotterdam (NL), 21-26 April 2024.

"L'hydrographie, un fil rouge pour l'océan", Sinapi L., *L'obligation des États de protéger et préserver le milieu marin*, Actes du colloque 12-13 May 2023, INDEMER, Lexis Nexis, 2024.

Participation in the WMU-GOI BUGWRIGHT2 Forum 2024 organized by the WMU-Sasakawa Global Ocean Institute (WMU-GOI) at the World Maritime University (WMU), Athens (GR), 16 February 2024.

Keynote Speaker at NATO Advanced Training Course on "Modern Technologies Enabling Innovative Methods for maritime Monitoring and Strengthening Resilience in Maritime Critical Infrastructures", Agadir (MO), 15-20 January 2024.

"Opening and Closing remarks", *Map the Gaps Symposium*, Oceanographic Museum of Monaco hosted by the International Hydrographic Organization, Monaco (Monaco), 6-8 November 2023.

Moderator of "Session 6 – Gender Equality in Ocean Science and Governance", *Ocean Geosciences: from the past century to the future decade*, 11th ABLOS Conference, IHO Secretariat, Monaco (Monaco), 11-12 October 2023.

"Seabed Mapping: How the super Yacht Community can help map the seabed better" Sinapi L. and Harper S., *Monaco Yacht Show 2023*, Monaco (Monaco), 27 September 2023.

"The Universal Hydrographic data model S-100: S-100 and S-200 products development" Sinapi L., *Digital@Sea Asia Conference*, Seoul (ROK), 12-13 September 2023.

"Port approach navigational charts and port authority responsibility" Sinapi L., *1st African Harbor Masters Committee Seminar*, Tangier (MO), 2 - 3 March 2023.

"Hydrography : Supporting Sustainable Development" Sinapi L., *XIII Trans-Regional Seapower Symposium*, Venice (I), 5-7 October 2022.

"Importance of gender allies and feature new IHO Empowering Women in Hydrography program" with Biron A., *Making waves for ocean science: Empowering Women Leaders in the Ocean Decade*, United Nations Ocean Decade Virtual Series Special Event in Celebration of International Women's Day, 8 March 2021.

General Co-Chair at the IMEKO TC19, *METROLOGY FOR THE SEA 2020* Workshop, www.metrosea.org, Naples (I), 5-7 October 2020.

"Hydrography – Enabling Autonomous Technologies" Sinapi L., *WORLD HYDROGRAPHY DAY INTERNATIONAL WEBINAR*, Jakarta (ID), 1st September 2020.

"From Magellan to the new marine cartographic frontiers – Explorations of the future hydrographic goals" Sinapi L., *42nd CIESM Congress*, Cascais (PO), 7-11 October 2019.

General Co-Chair at the IMEKO TC19, Workshop on *METROLOGY FOR THE SEA 2019* Workshop, www.metrosea.org, Genoa (I), 3-5 October 2019.

"S-100 Universal Hydrographic Data Model: the limits and boundaries challenge", with Pizzeghello N. and Pratellesi M., *EGU General Assembly*, Vienna (AT), 7-12 April 2019.

"New Arctic geophysical data from the Yermak Plateau (northern Svalbard margin)", with Demarte M., Ivaldi R. and Rebesco M., *EGU General Assembly*, Vienna (AT), 7-12 April 2019.

"Monitoring the evolution of the coasts for a sustainable Blue Growth", with Biscotti E. and Pizzeghello N., *"XIX Giornata mondiale dell'acqua" Convegno "Gestione e difesa delle coste"*, Accademia dei LINCEI, Rome (I), 21 March 2019.

"Hydrographic standard for a secure sea" – INTERREG ITALY-CROATIA, *"Information Technology for Safety: a joint Italian and Croatian perspective for the Adriatic Sea"* Technical Seminar, Venice (I), 29 February 2019.

"HIGH NORTH: il Programma di ricerca in Artico della Marina Militare", *2^o International Forum "Nuovo Artico – Vecchio Mediterraneo"*, MILAN CENTER for FOOD LAW and POLICY, Genoa (I), 13-14 November 2018.

"HIGH NORTH Program – New Hydrographic Data in the Arctic", with Ivaldi R. and Demarte M., *First Seabed 2030 - Arctic, Antarctic & North Pacific Mapping Meeting*, Stockholm University, Stockholm (FI) 8-10 October 2018.

"HIGH NORTH: the Italian joint research program", *Arctic Regional Hydrographic Commission (ARHC) Open Forum 2018*, Longyearbyen, Svalbard (NO), 11 September 2018.

"Preliminary results of the Italian Navy Arctic Marine Geophysics Campaign HIGH NORTH 18", *Press-conference onboard of NATO ship ALLIANCE*, Tromsø (NO), 25 July 2018.

"HIGH NORTH: the Italian Navy's Joint Research Programme in the Polar Region", *Naval Survey & Ocean Intelligence Conference*, London (UK), 20-21 June 2018.

"Education and Capacity Building for Blue Growth", *Union for Mediterranean (UfM) Regional Stakeholder Conference on "Blue Economy"*, Naples (I), 30 November 2017.

"HYDROGRAPHY for a secure sea", *G7 High Level Meeting on Maritime Security*, Rome (I), 20 November 2017.

Keynote Speaker at the IMEKO TC19 Workshop on "METROLOGY FOR THE SEA 2017", www.metrosea.org, Naples (I), 11-13 October 2017.

"Preliminary results of the Italian Navy Arctic Marine Geophysics Campaign HIGH NORTH 17", *Press-conference onboard of NATO ship ALLIANCE*, Tromsø (NO), 28 July 2017.

"Sailing for Science: on board experiences for transferring knowledge on Historical Oceanography for Future Innovation", with Garvani S., Carmisciano C., Locritani M., Grossi L., Mori A., Stroobant M., Schierano E., De Strobel F., Manzella G., Muzi E., Leccese D., Morellato C., La Tassa H., Talamoni R., Coelho E. and Nacini F., *EGU General Assembly*, Vienna (AT), 23-28 April 2017.

"Innovative REA tools for integrated bathymetric survey", with Demarte M., Ivaldi R., Bruzzzone G., Caccia M., Odetti A., Fontanelli G. and Masini A., *EGU General Assembly*, Vienna (AT), 23-28 April 2017.

Keynote Speaker at the Union For Mediterranean (UFM) Stakeholder Conference on "Towards an Initiative for the sustainable development of the blue economy in the western Mediterranean", Barcelona (SP), 2 February 2017.

"GEBCO Archaeological Hydrography", *GEBCO Forum*, Monaco (Monaco), 15-17 June 2016.

"4D Seafloor view", *GEBCO Forum*, Monaco (Monaco), 15-17 June 2016.

"Developing Skills and Capabilities of the Italian Navy Survey Vessel Fleet", *OSV (Oceanographic Survey Vessel) Conference*, London (UK), 8-10 June 2016.

"Last century seabed morphodynamics of the Magra River estuary (Western Mediterranean Sea)", with Pratellesi M., Ivaldi R., Ciavola P., *EGU General Assembly*, Vienna (AT), 17-22 April 2016.

"Data quality indicators: from paper charts to electronic navigational charts", *CIRM Conference & AGM 2016*, Santa Margherita Ligure (I), 11-13 April 2016.

Proceeding of National Conference and Technical Report

"Marine Geology for Hydrography", with Ivaldi R., *3° Convegno di Geologia Marina*, Roma (I), 21-22 February 2019.

"I rilievi idrografici portuali tra applicazione degli standard ed evoluzione della professione dell'idrografo", *REMTECH-EXPO 2018*, Coast, Ferrara (I), 19-21 September 2018.

Contributor to "The BLUEMED Italian White Paper: an overview of relevance, obstacles and proposals of the key sectors for a Blue Growth", Consiglio Nazionale delle Ricerche (CNR) Edizioni, Rome (I), July 2018.

"Dalla sicurezza della navigazione alla crescita blu: il contributo dell'Istituto Idrografico della Marina all'economia blu nazionale e portuale di Genova", *Summit "Blue Economy"*, Genoa (I), 9 April 2018.

"L'Istituto Idrografico della Marina e lo SCUFN (Sub-Committee on Undersea Feature Names)", with Ivaldi R., *2° Convegno di Geologia Marina*, Roma (I), 23-24 February 2017.

"Idrografia e Maritime Capacity Building", with Demarte M., *2° Convegno di Geologia Marina*, Roma (I), 23-24 February 2017

"Monitoraggio idrografico del Banco di Graham (Canale di Sicilia)", with Lamberto L.O., Ivaldi R., Pizzeghello N.M., *1° Convegno di Geologia Marina*, CNR Roma (I), 18-19 February 2016

"La cartografia nautica e l'evoluzione del territorio – il porto di San Benedetto del Tronto", with Cella A., Demarte M., *Convegno annuale della Associazione Italiana di Cartografia (AIC)*, San Benedetto del Tronto (I), 11-13 May 2016

"Lezioni di Idrografia teorica ed applicata" – Parthenope University, Napoli (I), *Manuale del Corso di Idrografia*, 2001.

"La rappresentazione digitale dei fondali marini", with Garciulo R., Mori A., Parente C., Puqliano A., Santamaria R., *1° Convegno AUTeC (Associazione Universitari di Topografia e Cartografia)*, Napoli (I), 17-18 May 2001.

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CANDIDATE'S POSITION - *POSITION DU CANDIDAT*

The election of the International Hydrographic Organization (IHO) Secretary-General is a pivotal process that shapes the organization's strategic leadership. This role demands a visionary leader with expertise in hydrography, ocean mapping, and international cooperation. The Secretary-General must drive innovation, foster global collaboration, and ensure hydrographic advancements benefit all nations. Below is an in-depth look at the five key focus areas influencing the election.

A. Improving Seabed Mapping

Seabed mapping is a fundamental aspect of hydrography, providing critical data for navigation, environmental protection, resource management, and disaster resilience. However, a significant portion of the world's seabed remains unmapped or inadequately surveyed.

Key actions needed:

- Strengthening global cooperation among International and Inter-governmental organizations, governments, private sectors, and scientific institutions: the IHO shall continue to support the global initiatives currently in place (i.e. Seabed2030 project) and advocate to the international community a plan to complete the mapping of the ocean floor;
- Encouraging national contributions: coastal States should be encouraged to invest in and share seabed mapping data, particularly in under-surveyed areas;
- Advancing technology and data sharing: the adoption of autonomous survey technologies, satellite-derived bathymetry, and artificial intelligence should be promoted to accelerate high-resolution seabed mapping;
- Expanding public-private partnerships: collaboration with private industry, research institutions, and NGOs can facilitate large-scale seabed mapping efforts.

B. Completing the transition to S-100 standard to pave the way for e-navigation

The hydrographic community is undergoing a major shift from the S-57 Electronic Navigational Chart (ENC) standard to the S-100 Universal Hydrographic Data Model, which allows for more versatile marine representation and detailed marine data usage.

Key priorities:

- Facilitating a smooth transition: the IHO should support member States in updating their systems, training personnel, and ensuring compatibility with S-100 standards;
- Promoting interoperability: S-100 enables multiple data layers (e.g., tides, currents, seabed characteristics, navigational warning and products, marine protected areas, etc.) to be integrated, benefiting marine navigation, defense, and environmental monitoring;
- Strengthening coordination with UN-DOALOS, IMO, WMO, IOC-UNESCO, IALA, IEC, IHMA and RENCs: close international and technical cooperation is essential to align regulations and implementation strategies;
- Providing technical guidance and training: Capacity Building programs should be improved and expanded to assist Member States, particularly developing States, in adopting S-100 effectively.

C. Enlarging participation and membership in the IHO

The IHO reached 100 Member States in 2024. While this is an important milestone, many coastal and island States and inland States still remain outside the organization. Increasing participation is thus essential to achieving a truly global hydrographic community.

Strategies to expand participation:

- Outreach to non-member States: the IHO should engage with governments, demonstrating the strategic and economic benefits of membership;
- Reducing barriers to entry: technical support should be offered to countries with limited hydrographic resources to encourage their participation;
- Engaging Regional Hydrographic Commissions (RHCs): strengthening the role of RHCs can facilitate dialogue with non-member States and encourage them to join;
- Highlighting hydrography's relevance: demonstrating how hydrographic data supports disaster resilience, maritime safety, and the blue economy can encourage more States to become involved.

D. Supporting the creation of Hydrographic Capacities worldwide

Many developing States lack the necessary hydrographic infrastructure, expertise, and resources to conduct effective surveys and maintain nautical charts.

Key actions:

- Enhancing technical assistance programs: the IHO should strengthen the Capacity Building program, which provides training, equipment, and advisory services;
- Encouraging knowledge transfer: partnerships between developed and developing States should be fostered to build local hydrographic expertise;
- Promoting regional hydrographic training centers: supporting training institutions and promoting education in hydrography and nautical cartography in different regions can help build skilled personnel globally;
- Leveraging funding from international organizations: engaging with the national and international stakeholders and institutions, and private sector donors can help secure financial support for hydrographic capacity development;

E. Strengthening Cooperation at Regional and International Levels

Hydrography is inherently global, requiring strong coordination between States, organizations, and industries. Enhanced cooperation will improve data sharing, technological advancements, and maritime security.

Key initiatives:

- Deepening regional collaboration: strengthening the Regional Hydrographic Commissions (RHCs) will improve information exchange and joint projects;
- Expanding partnerships with UN agencies, IGOs and NGOs: collaboration with such organizations can enhance hydro-oceanographic research and data integration;
- Engaging with industry leaders: the IHO should work with technology firms, shipbuilders, and maritime operators to drive innovation in hydrography;
- Fostering diplomatic dialogue on marine data governance: international discussions on data accessibility, sovereignty, and environmental protection should be encouraged to ensure responsible use of hydrographic information.

ADDITIONAL INFORMATION - <i>RENSEIGNEMENTS COMPLEMENTAIRES</i> (if any) <i>(le cas échéant)</i>
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Rear Admiral Luigi SINAPI has been serving the Italian Navy since October 1985, acting also as Commanding Officer of a Survey Vessel, a Frigate and a Destroyer. From October 2015 to July 2020, he served as Hydrographer of Italy (Director of the Istituto Idrografico della Marina). He was promoted Rear Admiral on 1st January 2018 and since 1st September 2020 he is serving at the IHO as Director Inter-Regional Coordination and Support Programme.

As a lifelong Category A trained Hydrographer advocate for the transformative power of hydrography, and strong international experience as the person responsible for coordinating regional and international cooperation programs within the IHO, he brings a unique combination of technical expertise, visionary leadership, diplomatic skills and a proven track record in fostering international cooperation. His background includes:

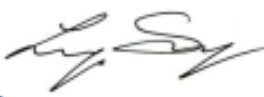
- Leading innovative marine mapping projects and hydrographic standards that have set new global benchmarks;
- Negotiating successful international collaborations across diverse cultural and geopolitical contexts;
- Driving large-scale capacity-building initiatives in regions that needed it most.

The combination of these three qualities positions Rear Admiral Sinapi as an exceptional candidate for IHO Secretary-General. His modern and forward-thinking approach ensures he remains a global leader in hydrographic science and services, driving innovation, fostering international collaboration, and shaping a future where hydrography empowers humanity while safeguarding the Ocean for generations to come.

With a proactive and enthusiastic nature, coupled with a decade of experience as Chair of the Hydrographic Services & Standards Committee (HSSC) of the IHO, National Hydrographer of Italy, and IHO Director of Inter-Regional Coordination and Support, Rear Admiral Sinapi has demonstrated exceptional communication skills, unwavering dedication, and extensive international experience. His leadership has been instrumental in navigating the challenges faced by the IHO over the past five years – from the aftermath of the COVID-19 pandemic and the expansion of IHO membership to the implementation of new standards, advancements in seabed mapping, and the strengthening of hydrographic capacities at national and regional levels. These achievements highlight Rear Admiral Sinapi's unique blend of technical expertise and diplomatic acumen – an essential combination for successfully engaging with the diverse and increasingly demanding hydrographic community. His proven ability to provide expert, rapid and tangible responses to complex challenges, coupled with his strategic vision and deep international experience, makes him an ideal candidate to lead the IHO into the future.

Date : 15 MAY 2025

Signature of candidate:



Signature du candidat :

Forwarding Authority - *Autorité qui transmet :*

CHIEF OF THE ITALIAN NAVY - VICE ADMIRAL ENRICO CREDENDINO



Signature of forwarding authority:

Signature de l'autorité qui transmet :

POSICIÓN DEL CANDIDATO

La elección del Secretario General de la Organización Hidrográfica Internacional (OHI) es un proceso clave que da forma al liderazgo estratégico de la organización. Este papel exige un líder visionario con experiencia en hidrografía, cartografía oceánica y cooperación internacional. El Secretario General debe impulsar la innovación, promover la colaboración global y asegurar que los avances en la hidrografía beneficien a todas las naciones. A continuación se incluye un análisis en profundidad de las cinco áreas concretas que serán clave para influir en la elección.

A. Mejora en la Cartografía Oceánica

La cartografía oceánica es un aspecto fundamental de la hidrografía, proporcionando datos críticos para la navegación, protección medioambiental, gestión de recursos, y resistencia a los desastres. Sin embargo, una parte significativa de los fondos marinos del mundo sigue sin levantarse o está levantada de manera inadecuada.

Acciones clave necesarias:

- Reforzar la cooperación global entre organismos internacionales e intergubernamentales, gobiernos, sectores privados e instituciones científicas: la OHI continuará apoyando las iniciativas globales actualmente existentes (es decir, el proyecto Seabed2030) y defendiendo ante la comunidad internacional un plan para completar la cartografía del fondo oceánico;
- Animar a las contribuciones nacionales: se debería animar a los estados costeros a invertir y compartir los datos cartográficos marinos, en particular en áreas poco levantadas;
- Avanzar la tecnología y el intercambio de datos: se debería promover la adopción de tecnologías para levantamientos autónomos, batimetría derivada por satélite, e inteligencia artificial para acelerar la cartografía del fondo marino a alta resolución;
- Expandir las colaboraciones público-privadas: la colaboración con la industria privada, instituciones de investigación y ONGs puede facilitar los esfuerzos de cartografía del fondo marino a gran escala.

B. Completar la transición a la norma S-100 para abrir el camino a la navegación electrónica

La comunidad hidrográfica está realizando un gran cambio de la norma S-57 Carta Náutica Electrónica a la S-100 Modelo Universal de Datos Hidrográficos, que permite una representación marina más versátil y un uso de datos marinos detallados.

Prioridades clave:

- Facilitar una transición fluida: la OHI debería apoyar a los Estados Miembros para actualizar sus sistemas, formar a su personal y asegurar la compatibilidad con las normas S-100;
- Promover la interoperabilidad: la S-100 permite integrar múltiples capas de datos (por ej., mareas, corrientes, características del fondo marino, avisos y productos náuticos,

áreas marinas protegidas, etc.), para beneficio de la navegación marina, la defensa y el seguimiento del medio ambiente;

- Reforzar la coordinación con UN-DOALOS, OMI, OMM, IOC-UNESCO, IALA, CEI, IHMA y RENCs: una estrecha cooperación internacional y técnica es esencial para alinear normativas y estrategias de implementación;
- Proporcionar directrices y formación técnicas: Se deberían mejorar y expandir los programas de Creación de Capacidades para ayudar a los Estados Miembros, en particular los Estados en desarrollo, a adoptar la S-100 con efectividad.

C. Aumento de la participación y número de miembros de la OHI

La OHI alcanzó los 100 Estados Miembros en 2024. Aunque éste es un hito significativo, muchos Estados costeros e insulares siguen fuera de la organización. Por ello, el aumento de la participación es esencial para alcanzar una comunidad hidrográfica verdaderamente global.

Estrategias para aumentar la participación:

- Promoción en Estados no Miembros: la OHI debería ponerse en contacto con los Gobiernos, demostrando los beneficios estratégicos y económicos de convertirse en miembro;
- Reducción de las barreras de entrada: se debería ofrecer apoyo técnico a los países con recursos hidrográficos limitados para animarles a participar;
- Coordinación con las Conferencias Hidrográficas Regionales (CHRs): reforzar el papel de las CHRs puede facilitar el diálogo con los Estados no Miembros y animarles a unirse;
- Destacar la relevancia de la hidrografía: demostrar cómo los datos hidrográficos sirven de apoyo a la resistencia a los desastres, seguridad marítima, y economía azul puede animar a participar a más Estados.

D. Apoyo a la creación de Capacidades Hidrográficas en todo el mundo

Muchos Estados en desarrollo carecen de la necesaria infraestructura hidrográfica, experiencia y recursos para realizar levantamientos efectivos y mantener sus cartas náuticas.

Acciones clave:

- Mejorar los programas de asistencia técnica: la OHI debería reforzar el programa de Creación de Capacidades, que proporciona formación, equipos y servicios de asesoramiento;
- Animar al intercambio de conocimiento: se debería fomentar la cooperación entre Estados desarrollados y en desarrollo para aumentar la experiencia hidrográfica local
- Promover Centros Regionales de formación hidrográfica: apoyar a las instituciones de formación y promover la educación en hidrografía y cartografía náutica en diferentes regiones puede ayudar a crear personal técnico globalmente
- Aprovechar fondos de organismos internacionales: colaborar con partes interesadas e instituciones nacionales e internacionales, y con donantes del sector privado puede ayudar a conseguir apoyo financiero para desarrollo de capacidades hidrográficas;

E. Refuerzo de la Cooperación a los Niveles Regional e Internacional

La hidrografía es inherentemente global y requiere una firme coordinación entre Estados, organismos e industrias. El aumento de la cooperación mejorará el intercambio de datos los avances tecnológicos y la seguridad marítima.

Iniciativas clave:

- Aumentar la colaboración regional: reforzar las Comisiones Hidrográficas Regionales (CHRs) mejorará el intercambio de información y los proyectos conjuntos;
- Expandir la cooperación con organismos de la ONU, OIGs y ONGs: la colaboración con esos organismos puede mejorar la investigación hidro oceanográfica y la integración de datos;
- Colaboración con líderes de la industria: la OHI debería trabajar con empresas de tecnología, astilleros, y armadores marítimos para impulsar la innovación en hidrografía;
- Fomentar el diálogo diplomático sobre gestión de datos marinos: se deberían fomentar los debates internacionales sobre acceso a datos, soberanía y protección ambiental para asegurar el uso responsable de la información hidrográfica.

INFORMACIÓN ADICIONAL

El Contralmirante Luigi SINAPI ha servido en la Armada italiana desde octubre de 1985, actuando también comandante de un Buque Hidrógrafo, una fragata y un destructor. Desde octubre del 2015 hasta julio del 2020 sirvió como Director del Servicio Hidrográfico de Italia (Istituto Idrografico della Marina). Ascendió a Contralmirante el 1 de enero del 2018, y desde el 1 de septiembre del 2020 sirve en la OHI como Director del Programa de Coordinación y Apoyo Interregional.

Como Hidrógrafo con formación de Categoría A y defensor del poder transformativo de la hidrografía, con gran experiencia internacional como responsable de coordinación de programas de cooperación regional e internacional dentro de la OHI, ofrece una combinación única de experiencia técnica, liderazgo visionario, habilidades diplomáticas y un historial demostrado de promoción de la cooperación internacional. Su historial incluye:

- Liderar proyectos innovadores de cartografía marina normas hidrográficas que han establecido nuevas marcas globales;
- Negociar con éxito colaboraciones internacionales entre diversos contextos culturales y geopolíticos;
- Promover iniciativas de creación de capacidades a gran escala en las regiones que más lo necesitan.

La combinación de estas tres cualidades sitúa al Contralmirante Sinapi como un candidato excepcional para Secretario General de la OHI. Su enfoque moderno y progresista asegura que sigue siendo un líder global en ciencia y servicios hidrográficos, apoyando la innovación, promoviendo la cooperación internacional, y dando forma a un futuro en el que la hidrografía apoya a la humanidad mientras protege al Océano para las generaciones futuras.

Con su naturaleza proactiva y entusiasta, unida a una década de experiencia como presidente del Comité de Servicios y Normas Hidrográficas (HSSC) de la OHI, Director del Servicio Hidrográfico Nacional de Italia, y Director de Coordinación y Apoyo Interregional de la OHI, el Contralmirante Sinapi ha demostrado excepcionales capacidades de comunicación, una dedicación inagotable, y extensa experiencia internacional. Su liderazgo ha sido fundamental para navegar los desafíos que ha afrontado la OHI durante los últimos 5 años - desde las consecuencias de la pandemia del COVID-19 y la expansión del número de miembros de la OHI hasta la implementación de nuevas normas, avances en la cartografía del fondo marino, y el refuerzo de las capacidades hidrográficas a niveles nacional y regional. Estos logros destacan la combinación única de experiencia técnica y sabiduría diplomática del Contralmirante Sinapi - una combinación esencial para trabajar con una comunidad hidrográfica diversa y cada vez más exigente. Su habilidad demostrada dar respuestas expertas, rápidas, y tangibles a desafíos complejos, junto con su visión estratégica y profunda experiencia internacional, lo hacen un candidato ideal para liderar a la OHI hacia el futuro.

Fecha: 15 de mayo del 2025

EL JEFE DE LA ARMADA DE ITALIA – VICEALMIRANTE ENRICO CREDENDINO