



**BRAZILIAN NAVY**

**DIRECTORATE OF HYDROGRAPHY AND NAVIGATION**

Rua Barão de Jaceguai, s/n º, Ponta da Armação  
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Letter *106* /2023 - DHN-OHI  
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August *29*<sup>th</sup>, 2023.

Dr. Vladimir Ryabinin  
IOC Executive-Secretary  
7 place Fontenoy  
75007 Paris – FRANCE

**Subject: GOOS National Focal Point**

Dear Dr. Vladimir Ryabinin,

1. As the Director of Hydrography and Navigation and Brazilian National Coordinator for liaison with the IOC for activities concerned to Global Ocean Observing System, in response to IOC CL 2931, I have a pleasure to convey to you and nominate Commander Cesar Henrique de Oliveira Borba as the Brazilian GOOS National Focal Point.

2. Please, see his contacts below:  
Cdr (T) Cesar Henrique de Oliveira Borba  
Head of Environmental Information Department  
Centro de Hidrografia da Marinha  
Rua Barão de Jaceguai, S/Nº - Ponta da Armação  
Niterói, RJ  
Brazil  
Zip code: 24048-900  
Phone: +55 21 2189 3035  
[cesar.borba@marinha.mil.br](mailto:cesar.borba@marinha.mil.br)

Best Regards,

CARLOS ANDRÉ CORONHA M~~A~~CEDO  
Vice Admiral  
Director

***“Hydrography - underpinning the digital twin of the ocean”***

**1. Global Ocean Observing Systems National Contact Point (GOOS)**

Name: Emma Giada Matschinske

Position: Superintendent of Meteorology and Oceanography

Institution [repeat for all]: Navy Hydrographic Center

Telephone Number: +55 21 996793114 / +55 21 21893024

Email address: emma@marinha.mil.br

Postal Address: Rua Barão de Jaceguai, s/n. Niterói – RJ ZIP 24.048-900 - Brazil

**2. JCOMM National Contact Point (for IOC)**

Emma Giada Matschinske

Position: Superintendent of Meteorology and Oceanography

Telephone Number: +55 21 996793114 / +55 21 21893024

Email address: emma@marinha.mil.br

Postal Address: Rua Barão de Jaceguai, s/n. Niterói – RJ ZIP 24.048-900 - Brazil

**3. Argo National Focal Point**

Name: Márcio Borges

Position: Officer in Charge of Operational Oceanographic Division

Telephone Number: +55 21 984799921 / +55 21 21893025

Email address: Borges.marcio@marinha.mil.br

Postal Address: Rua Barão de Jaceguai, s/n. Niterói – RJ ZIP 24.048-900 - Brazil

**GOOS NFP  
updated with  
new contact**

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**4. Global Sea Level Observing System (GLOSS) National Contact Point**  
**Cesar Henrique de Oliveira Borba**

Name: \_\_\_\_\_

Position: Officer in Charge of Tide Section

Telephone Number: +55 21 21893238

Email address: borba@marinha.mil.br

Postal Address: Rua Barão de Jaceguai, s/n. Niterói – RJ ZIP 24.048-900 - Brazil

**5. Ship Observation Team (SOT) National Contact Point**

Name: Leonardo Diogo da Silva

Position: Officer in Charge of Meteorological Previsions Division

Telephone Number: +55 21 996794190 / +55 21 21893025

Email address: diogo.silva@marinha.mil.br

Postal Address: Rua Barão de Jaceguai, s/n. Niterói – RJ ZIP 24.048-900 - Brazil

**6. Data Buoy Cooperation Panel (DBCP) National Contact Point**

Name: Márcio Borges

Position: Officer in Charge of Operational Oceanographic Division

Telephone Number: +55 21 984799921 / +55 21 21893025

Email address: borges.marcio@marinha.mil.br

Postal address: Rua Barão de Jaceguai, s/n. Niterói – RJ ZIP 24.048-900 - Brazil

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**Comments regarding any of the contacts above:**

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Nominations Submitted by: Capt. (Ret) Frederico Antonio Saraiva Nogueira

Signature: 

Position: Institutional Advisor on IOC Affairs

Government Department/Agency: Directorate of Hydrography and Navigation - Brazil 

Date: 30<sup>th</sup> of June of 2017

Nomination Forms duly completed and signed should be sent by 16 June 2017 at the latest to the IOC Secretariat (scan to [oops@unesco.org](mailto:oops@unesco.org)) through one of the following channels:

1. The coordinating body for liaison with the IOC
2. Head of UNESCO National Commission
3. Permanent Delegate to UNESCO

Any enquiries can be addressed to the Head of the Ocean Observation and Services Section, Dr Albert Fischer at: [a.fischer@unesco.org](mailto:a.fischer@unesco.org) (with copy to Forest Collins [f.collins@unesco.org](mailto:f.collins@unesco.org))

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*Global Ocean Observing System (GOOS),  
Joint IOC-WMO Technical Commission for Oceanography and Marine Meteorology (JCOMM),  
Global Sea Level Observing System (GLOSS),  
Argo, Ship Observations Team (SOT), and Data Buoy Cooperation Panel (DBCP)*

National Contact Points

**NOMINATION FORM<sup>1</sup>**

**Name of Member State:**

**Summary of the responsibilities of the National Contact Points:**

**GOOS National Contact point:** The person designated by a Member State to promote the work of GOOS and GOOS Regional Alliances at the national level by promoting GOOS' plans and documents where relevant, publicizing opportunities for engagement with GOOS structures and activities, including its panels, the JCOMM Observations Coordination Group, GOOS Regional Alliances, and GOOS Projects, and advocating for national ocean observing systems activities that contribute to GOOS; Promote regionally and nationally coordinated strategies and implementation for a sustained ocean observing system delivering the needed information to users, including suggesting pilot projects; Ensure that national needs and gaps related to sustained ocean observing systems are brought to the attention of the GOOS Programme; and to supply information to IOC on ocean observing capacity development needs in the context of the IOC Capacity Development strategy and plan.

GOOS National Contact Point Terms of Reference: <http://ioc-unesco.org/goos-ncp-tor>

**JCOMM National Contact Point for IOC:** The person designated by a Member State to promote the work of JCOMM at the national level where relevant by publicizing JCOMM's normative work on guides, standards and best practices, in the areas of observations, data management, services and forecast systems; monitoring the engagement of national observing networks with the JCOMM Observations Coordination Group, encouraging provision of data in real time, and the registry of all platforms with the JCOMM Observing Programme Support Centre (JCOMMOPS); highlighting opportunities at a national level to engage with the work of JCOMM and the programmes of IOC and WMO; reporting to IOC on the status of national activities that contribute to JCOMM; help to identify potential improved engagement at the national level; ensuring that national needs for JCOMM observing networks, real-time data systems, and forecast and early warning systems are brought to the full attention of the JCOMM programme; and to supply information to IOC on capacity development needs in the context of the IOC Capacity Development strategy and plan; coordinating with the National Meteorological Hydrological Service, including any relevant METAREA Co-ordinators and the JCOMM Member(s) appointed by WMO to provide input for JCOMM. An annual meeting of the national Met-Ocean community is encouraged, with input provided to the Co-Presidents of JCOMM.

JCOMM National Contact Point for IOC Terms of Reference: <http://ioc-unesco.org/jcomm-ncp-tor>

**GLOSS National Contact Point:** The person designated by a Member State to promote GLOSS Implementation Plan at National Level and provide national coordination; distribute

<sup>1</sup> Updated May 2017, available in English only

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GLOSS documentation and publications to the national institutions and persons concerned; ensure that national needs for GLOSS data, products, scientific and technical advice are brought to the attention of the GLOSS programme; supply information to IOC on training needs; organise regular reviews of the national GLOSS stations through appropriate channels to ensure that their operation is in accordance with GLOSS requirements; ensure data flow from national tide gauges and GNSS receivers to GLOSS data centres in accordance with IOC Oceanographic Data Exchange Policy; report to IOC on the status of national stations that contribute to GLOSS, help to identify potential solutions for stations with poor or no data return; publicise GLOSS and sea-level studies in general. \_\_  
GLOSS Terms of Reference: [http://www.ioc-unesco.org/GLOSS\\_TORs](http://www.ioc-unesco.org/GLOSS_TORs)

Argo National Contact Point: The person designated by a Member State to receive the following information from the Argo Information Centre: type and number of floats to be deployed; dates and geo-coordinates of locations where floats are to be deployed in the high seas; contact information of the governmental, non-governmental or private entity responsible for Argo Programme floats deployed in the high seas; parameters and variables to be collected by sensors; other information that the governmental, non-governmental or private entity responsible for Argo Programme floats deployed in the high seas might consider of interest. f-

Argo Terms of reference: [jcomm.info/Argo\\_ToRs](http://jcomm.info/Argo_ToRs)

SOT National Focal Point: is the main national contact for responsibilities focused on observations from voluntary commercial ships whose terms of reference can be found at [jcomm.info/SOT\\_ToRs](http://jcomm.info/SOT_ToRs) Note that this list of Focal Points can be appointed through WMO or through IOC.

DBCP National Focal Point: is the main national contact for responsibilities focused on observations from surface drifters and moorings, whose terms of reference can be found at [jcomm.info/DBCP\\_ToRs](http://jcomm.info/DBCP_ToRs). Note that this list of Focal Points can be appointed through WMO or through IOC.

There is overlap in the functions of the GOOS and the JCOMM National Contact Points. Therefore, depending on the structure of your country's organizations related to the activities of GOOS and JCOMM, you may appoint the same contact point for GOOS and JCOMM, or you may wish to have a GOOS National Contact Point focused on observing networks and a JCOMM National Contact Point for IOC focused on operational ocean services and forecast systems including real-time data systems. Should you wish to appoint alternates, please add their information below each national contact point.