

# FINAL DRAFT AGENDA

*(as at 28Feb2024)*

**Sixteenth meeting of the Indian Ocean  
Observing System (IndOOS) Resource Forum  
(IRF-16)**

**0900-1030AM Indonesian time (0100-0500 UTC time)**

**Thursday 7 February 2024**

*(0100-0230 UTC, Thursday 9 February 2023)*

**As part of the International Indian Ocean Science Conference 2024  
(IIOSC 2024)**

<b>Meeting Title</b>	<b>Sixteenth Meeting of the Indian Ocean Observing System (IndOOS) Resource Forum (IRF-16)</b>
<b>Date</b>	Thursday 7 February 2024
<b>Time &amp; Duration</b>	<b>0900-1030AM Indonesian time (0100-0500 UTC time)</b> <b>Thursday 7 February 2024</b> <i>(0100-0230 UTC, Thursday 9 February 2023)</i> <i>Note: duration is planned for 1.5 hrs, but with a provision for extended time if required (to a maximum of 1300PM Indonesian time (0500AM UTC))</i>
<b>Location</b>	For delegates present at IIOSC 2024 BRIN Lombok, a meeting room will be advised.  or  Join Zoom Meeting

	<a href="https://zoom.us/j/93854035767?pwd=WFBnbGVpbXISZVZAwUmhHYnpkMVVVUT09">https://zoom.us/j/93854035767?pwd=WFBnbGVpbXISZVZAwUmhHYnpkMVVVUT09</a> Meeting ID: 938 5403 5767 Passcode: Lombok
<b>Chair</b>	Nick D'Adamo
<b>Convener</b>	Nick D'Adamo
<b>Rapporteur</b>	Nick D'Adamo
<b>Invited Participants</b>	IRF members, IRF ex-officios and previous meeting's (IRF-15) observers. Additional observer attendance welcomed by a-priori request Chair/Convener via <a href="mailto:nick.dadamo@uwa.edu.au">nick.dadamo@uwa.edu.au</a>
<b>Hosts</b>	BRIN Lombok
<b>Remote Access</b>	Join Zoom Meeting <a href="https://zoom.us/j/93854035767?pwd=WFBnbGVpbXISZVZAwUmhHYnpkMVVVUT09">https://zoom.us/j/93854035767?pwd=WFBnbGVpbXISZVZAwUmhHYnpkMVVVUT09</a> Meeting ID: 938 5403 5767 Passcode: Lombok

## **Hosts and Conference Venue**

The IRF-16 as part of IIOSC 2024 is being hosted by “Research Centre for Marine and Inland Water Bio Industry – Research Organization for Earth Sciences and Maritime” of the National Research and Innovation Agency (BRIN) of Indonesia. IRF-16 is set up as a virtual meeting (above) but for those at the venue a meeting room will be allocated (TBA). The venue for the integrated meetings is situated on the island of Lombok, Indonesia at the campus of “**Kawasan Sains Kurnaen Sumadiharga, Badan Riset dan Inovasi Nasional (BRIN)**”. The map coordinates of the venue are at <https://maps.app.goo.gl/QQb4Gbc3dQzmbZ3t5>.

**IRF-16 is being held as part of the INTERNATIONAL INDIAN OCEAN SCIENCE CONFERENCE 2024, Monday 4 to Friday 8 February 2024 comprising:**

**IIOE-2 International Steering Committee (7<sup>th</sup> major meeting); IOGOOS (19<sup>th</sup> major meeting); IORP (19<sup>th</sup> major meeting); IRF (16<sup>th</sup> major meeting); SIBER (14<sup>th</sup> major meeting); KUDOS Workshop; IOCINDIO opportunistic meeting**

**Registration: see the latest version of the IIOSC 2024 Information Booklet for full logistical details of the IIOSC 2023, including registration for those who will be in Lombok for the IIOSC 2024. The IIOSC 2024 Information Booklet is added to this agenda as Appendix 4.**

1. Chair's welcome & objectives, confirmation of agenda, and identification of "any other business" for the agenda. (IRF Chair, All – 5 minutes)
  - Announcement of retirement of Nick D'Adamo as Convener and Chair.
  - Thanks to outgoing members, and welcome to any members.
  - Overview of the IRF-16 agenda which was circulated ahead of the meeting.
  - Any other business (for Agenda Item 8).
2. Convener's brief report. (IRF Convener – up to 10 minutes)
  - Report on key issues, including:
    - Draft minutes of IRF-15, for ratification (**as had been circulated before IRF-16**).
    - Status of Action Items from IRF-14 (**Please see Appendix 1**).
    - Updated IRF membership as at IRF-15, for ratification and/or further advice from Members (**Please see Appendix 2**).
      - Clarification is required from IORP on the current status of ICPO (International CLIVAR Project Office) following advice received by IRF that the ICPO Executive Director and Head of Secretariat have retired.
      - IRF acknowledges with thanks the roles and important contributions made to IRF of former ICPO Exec Dir Dr Jose Santos and former Head of ICPO Secretariat Dr Jing Li.
    - For noting and reference, as a standing item – IRF ToR (**Please see Appendix 3**).
    - Full Information Booklet of IIOSC 2024, **Appendix 4**.
3. Status of RAMA (Mike McPhadden – 15 mins)

Either as a presentation or information note ahead of the meeting TBA
4. Brief updates in IndOOS progress from IORP and SIBER perspectives.
  - a. Janet Sprintall or Juliet Hermes for IORP (10 mins)
  - b. Greg Cowie or Raleigh Hood for SIBER (10 Mins)
5. Invitation to IORP and SIBER Co-Chairs to highlight high level concerns and/or resource needs for IndOOS – for IRF noting and future consideration.
  - a. Janet Sprintall or Juliet Hermes for IORP (5 mins)
  - b. Greg Cowie or Raleigh Hood for SIBER (5 Mins)
6. Discuss process to select new Convener and new Chair going forward to replace Nick D'Adamo. (Led by IOGOOS through IOGOOS Chair Srinivasa Kumar or nominated alternate TBA – 10 mins).
7. Identify any Action Items for next IRF Meeting (IRF Convener – 5 minutes)
8. Any other business (IRF Chair to lead – 5 mins or time remaining)
9. Next meeting IRF-17 (Chair)

## IRF 16 - APPENDIX 1

*Updated based on IRF-15 meeting*

<b>IRF Convener's live progress table for IRF-16 Action Items</b> <b>Status as of 22 Feb 2024</b> <b>(includes reference to any carry-over Actions from recent IRF meetings)</b>		
<b>Action Item No.</b>	<b>Action item</b>	<b>Progress, comments</b>
15.1	<i>M McPhaden to send IRF Convener PPT on 'Status of RAMA following the setbacks due to COVID-19', as was presented at IRF-15.</i>	<i>Done.</i>
15.2	<i>Co-Chair(s) IORP to send IRF Convener Brief update in IndOOS progress from IORP perspective, as presented at IRF-15.</i>	
15.3	<i>Co-Chair(s) SIBER to send IRF Convener Brief update in IndOOS progress from SIBER perspective, as presented at IRF-15.</i>	
15.4	<i>Co-Chair(s) IORP to send IRF Convener IORP's annual statement RE: Resources Request as mooted at IRF-15.</i>	
15.5	<i>Co-Chair(s) SIBER to send IRF Convener SIBER's annual statement RE: Resources Request as mooted at IRF-15.</i>	
15.6	<i>Chair IOGOOS to facilitate process to find new Chair and Convener for IRF, preferably in practical time for IRF-16.</i>	<i>Communications between current Convener and Chair with Chair of IOGOOS initiated.</i>
15.7	<i>Convener to advise IRF Members and invitees of IRF-16 meeting location, date.</i>	<i>Done (BRIN, Lombok, 7 Feb 2024)</i>
14.1	<i>Members to advise IRF (through Dr Pattabhi Rao, on behalf of the MoES-NOAA Joint OMNI-RAMA Indian Ocean Data Portal) of any prospective cruises that could be relevant to Argo deployment opportunities, to help facilitate enhanced deployments of Argo to redress emergent gaps in the Indian Ocean's Argo network.</i>	<i>Dr Pattabhi may update at IRF-16</i>
14.2	<i>Include a new standing agenda item for IRF meetings: that reports to be given by members who can speak to national progress on IndOOS.</i>	<i>Note any reports at IRF-15</i> <i>Done, see notes in IRF-15 minutes above.</i>
14.3	<i>Members are requested to communicate through their own most effective means significant emerging contributions to IndOOS, across its spectrum of components, to help build awareness of and increase the constituency for IndOOS.</i>	<i>Note any inputs in regard to this item, at IRF-15</i> <i>Standing item</i>

14.4	<i>Members are requested to provide documented summaries at IRF meetings of emerging nascent projects that build IndOOS and which involve 'co-design' across providers of ocean observations and benefits to users.</i>	<i>Note any inputs in regard to this item, at IRF-16</i>  <i>Standing item</i>
11.1	<i>Roxy to send IRF participants the link to the online IndOOS-2 track sheet.</i>	<i>If necessary, Janet or Juliet to confirm link</i>
11.2	<i>(i) Sidney, Nick and Roxy to work together offline to contact China re candidate representative(s) on IRF.</i> <i>(ii) Sidney to contact to Nelly Florida re an alternate representative to attend IRF.</i> <i>(iii) Sidney to contact to KIOS re a representative to attend IRF.</i> <i>(iv) Nick to contact Gilbert Siko via Juliet Hermes regarding an alternate representative to attend IRF.</i>	<i>(i) Done. See Membership table for progress.</i>  <i>(ii) Done. See Membership table for progress.</i> <i>(iii) Sidney Thurston invited to update on any progress.</i> <i>(iv) Juliet invited to update on any progress</i>
11.4	<i>(i) Ming to continue dialogue with relevant agencies to develop TFS consortium.</i>	<i>Ming invited to update on any progress. Done.</i>
11.5	<i>Venkat to connect Jim Costopulos with Graham at JCOM.</i>	<i>Venkat invited to update on any progress.</i>
11.9	<i>GOOS Implementation Plan to be presented at next meeting by a relevant GOOS leader/stakeholder, to be identified via the GOOS Project Office/Secretariat, Paris.</i>	<i>Nick invited to update on any progress.</i>

## IRF 16 - APPENDIX 2

### *For reference of IRF-16 meeting*

**IRF Membership as revised by Convener for IRF-16 as at 22 Feb 2024. Including:**

- Any routine changes in membership that have occurred during the intervening period between IRF-15 and previous meetings; and
- Outstanding membership issues as noted.

<b>IRF Members (and alternates, where provided)</b>		
<b>IRF Members – National links</b>		<b>Alternate</b>
Chair	<p>Dr Nick D'Adamo. Adjunct Research Fellow, Oceans Institute of the University of Western Australia. Email: <a href="mailto:nick.dadamo@uwa.edu.au">nick.dadamo@uwa.edu.au</a></p> <p><i>Note: Nick D'Adamo continued as interim Chair in a voluntary capacity, pending resolution of Chair replacement by IOGOOS (to be addressed at IRF-16)</i></p>	
Australia	<p>Ms. Michelle Heupel Director, Integrated Marine Observing System (<a href="#">IMOS</a>) University of Tasmania Private Bag 110 Hobart TAS 7001, Australia Email: <a href="mailto:Michelle.Heupel@utas.edu.au">Michelle.Heupel@utas.edu.au</a></p>	<p><i>Former Alternate, Dr Indi Hodgson-Johnston was thanked by IRF as an outgoing member.</i></p> <p><i>IMOS advised that Dr Paul van Ruth, <b>IMOS Senior Science Officer</b>, is the new Alternate. <a href="mailto:Paul.vanRuth@utas.edu.au">Paul.vanRuth@utas.edu.au</a>.</i></p>
China	<p>Dr. Chen Zhi Deputy Director General Department of Ocean Prediction and Disaster Reduction Ministry of Natural Resources No. 64 Fu-Cheng-Men-Nei Ave, Beijing 100812, P. R. China Email: <a href="mailto:chenzhi@nmeffc.cn">chenzhi@nmeffc.cn</a></p>	<p><i>Dr Weidong Yu advised IOGOOS &amp; IRF Chairs (email 11 Mar 2022) that Dr Feng Zhou of the China MNR (Ministry of Natural Resources agency) is the nominee to replace Dr Chen Zhi. IOGOOS consideration is pending.</i></p> <p><i>Dr Feng Zhou's nomination was formally accepted by Chair IOGOOS (email to Convener and Chair IRF, 24 May 2022)</i></p> <p><i>A note of thanks will be sent by IOGOOS to Dr Chen Zhi for his support of IRF during his Membership and to Dr Feng Zhou thanking and welcoming Dr Zhou to IRF.</i></p>
France	<p>Yet to be represented.</p> <p><i>Dr Marie Alexandrine-Sicre advised that she would check on this matter.</i></p>	
India	<p>Dr M Ravichandran Ministry of Earth Sciences (<a href="#">MoES</a>) Delhi, India</p>	<p>Dr. Srinivasa Kumar Director, Indian National Centre for Ocean Information Services (<a href="#">INCOIS</a>)</p>

	<p>Email: <a href="mailto:secretary@moes.gov.in">secretary@moes.gov.in</a></p> <p>(Note: Replacing former Secretary. To be formally confirmed at IRF-13)</p>	<p>(Ministry of Earth Sciences, Government of India)</p> <p>"Ocean Valley", Pragathi Nagar, Nizampet P.O Hyderabad - 500 090, India</p> <p>Email: <a href="mailto:srinivas@incois.gov.in">srinivas@incois.gov.in</a></p>
Indonesia	<p>Nelly Florida</p> <p>Director for Research</p> <p>Badan Meteorologi, Klimatologi, Dan Geofisika (<a href="#">BKMKG</a>)</p> <p>Jakarta, Indonesia</p> <p>Email: <a href="mailto:nelly.florida@bmkg.go.id">nelly.florida@bmkg.go.id</a></p>	<p>Convener to contact: invite as new member.</p> <p><i>Convener checked with IOGOOS Chair and Dr Florida on this matter (by email 4 Mar 2022).</i></p> <p><i>IOGOOS Chair Dr Srinivasa Kumar welcomed Dr Nelly Florida as the new Member for Indonesia (via emailed confirmation on 5 March 2022)</i></p>
Iran	<p>Professor Behrooz Abtahi</p> <p>Director, Iranian National Institute for Oceanography and Atmospheric Science (<a href="#">INIOAS</a>)</p> <p>#3 Etemad Zadeh St., Fatemi Ave</p> <p>Tehran, Iran</p> <p><a href="mailto:inioas@inio.ac.ir">inioas@inio.ac.ir</a></p>	
Japan	<p>Dr Shuhei MASUDA</p> <p>Japan Agency for Marine-Earth Science and Technology (JAMSTEC)</p> <p>Director, Global Ocean Research Centre, Research Institute for Global Change (RIGC)</p> <p>2-15 Natsushima, Yokosuka, 237-0061, Japan</p> <p><a href="mailto:smasuda@jamstec.go.jp">smasuda@jamstec.go.jp</a></p>	<p><i>Dr. Kentaro Ando (former IRF Member for Japan) nominated Dr MASUDA. IOGOOS Chair is formalizing the appointment, as per the IRF ToR.</i></p> <p><i>IOGOOS Chair Dr Srinivasa Kumar is to advise on IOGOOS's consideration of Dr Shuhei Masuda as a proposed Member for Japan.</i></p>
Kuwait	<p>Dr. Faiza Al Yamani, IOGOOS Officer West Indian Ocean</p> <p>KISR, Kuwait</p> <p>Email: <a href="mailto:faizayamani@gmail.com">faizayamani@gmail.com</a></p>	<p><i>IOGOOS Chair Dr Srinivasa Kumar is to advise on IOGOOS's consideration of Dr Faiza Al Yamani as a proposed Member for Kuwait.</i></p>
South Korea	<p>Yet to be advised.</p> <p><i>IRF Chair Dr Sidney Thurston advised that he would check on this matter.</i></p>	<p>Yet to be advised.</p> <p><i>IRF Chair Dr Sidney Thurston advised that he would check on this matter.</i></p>
South Africa	<p>Dr Dismore Gilbert Siko</p> <p>Director – Marine and Polar Research, Paleosciences.</p> <p>Department of Science and Innovation (<a href="#">DSI</a>),</p> <p>Pretoria 111111, South Africa</p> <p><a href="mailto:Gilbert.Siko@dst.gov.za">Gilbert.Siko@dst.gov.za</a></p>	<p><i>IRF Convener to check on whether the lead person for the South African research vessel, S.A Agulhas II, may be amenable to becoming a Member of IRF.</i></p>
USA	<p>Dr David Legler</p> <p>Director, NOAA Global Ocean Monitoring and Observing Program (GOMO)</p> <p>1315 East West Highway</p> <p>Silver Spring, MD 20910-5603, USA</p> <p><a href="mailto:david.legler@noaa.gov">david.legler@noaa.gov</a></p>	<p>Dr Sidney Thurston (alternate)</p> <p>Overseas Program Development,</p> <p>NOAA Global Ocean Monitoring and Observing Program (GOMO)</p> <p>1315 East West Highway</p> <p>Silver Spring, MD 20910-5603, USA</p>

		<a href="mailto:Sidney.Thurston@noaa.gov">Sidney.Thurston@noaa.gov</a>
<a href="#">IORP</a>	<p>Dr. Roxy Mathew Koll, IORP Co-Chair Centre for Climate Change Research, Indian Institute of Tropical Meteorology, Pashan, Pune - 411 008, India. <a href="http://www.climate.rocksea.org/">http://www.climate.rocksea.org/</a> Email: <a href="mailto:roxy@tropmet.res.in">roxy@tropmet.res.in</a></p> <p>(Dr Koll due to retire as Co-Chair IORP ahead of IRF-16. Due to be replaced by Dr Janet Sprintall)</p>	
IORP	<p>Dr. Juliet Hermes, IORP Co-Chair Manager: SAEON Egagasini node <a href="mailto:jc.hermes@saeon.nrf.ac.za">jc.hermes@saeon.nrf.ac.za</a></p> <p>A/Professor, Department of Oceanography, University of Cape Town, <a href="mailto:jc.hermes@uct.ac.za">jc.hermes@uct.ac.za</a></p> <p>Honorary Professor, Institute for Coastal and Marine Research, Nelson Mandela University, <a href="mailto:juliet.hermes@mandela.ac.za">juliet.hermes@mandela.ac.za</a> Cell (+27) (0)834729159 South African Environmental Observation Network <a href="https://orcid.org/0000-0001-7858-514X">https://orcid.org/0000-0001-7858-514X</a> <a href="https://www.nrf.ac.za/email-legal-notice.php">https://www.nrf.ac.za/email-legal-notice.php</a> <a href="http://www.nrf.ac.za/email-legal-notice.php">http://www.nrf.ac.za/email-legal-notice.php</a></p>	
<a href="#">SIBER</a>	<p>Prof. Raleigh R. Hood, SIBER Co-Chair Horn Point Laboratory University of Maryland Centre for Environmental Science P.O. Box 775 Cambridge, MD 21613 email: <a href="mailto:rhood@umces.edu">rhood@umces.edu</a></p>	
SIBER	<p>Dr. Greg Cowie, SIBER Chair <a href="#">University of Edinburgh</a> <a href="#">Centre for Earth System Dynamics</a> School of Geosciences, Global Change / Oceans and Past Climate Email: <a href="mailto:Dr.Greg.Cowie@ed.ac.uk">Dr.Greg.Cowie@ed.ac.uk</a></p>	
SIBER	<p>Dr. Aneesh Lotlicker SIBER Secretary Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences (MoES), Govt. of India "Ocean Valley", Pragathi Nagar (BO), Nizampet (SO),</p>	<i>Dr Aneesh Lotlicker was thanked and welcomed by IOGOOS Chair.</i>

	Hyderabad, Andhra Pradesh-500 090, India Email: <a href="mailto:aneesh@incois.gov.in">aneesh@incois.gov.in</a>	
<a href="#">IOGOOS</a>	Dr. Srinivasa Kumar, IOGOOS Chair Director, Indian National Centre for Ocean Information Services (INCOIS) (Ministry of Earth Sciences, Government of India) "Ocean Valley", Pragathi Nagar, Nizampet P.O Hyderabad - 500 090, India Email: <a href="mailto:srinivas@incois.gov.in">srinivas@incois.gov.in</a>  (Note: Replacing former Director. To be formally confirmed at IRF-13)	
IOGOOS	Mr. M. Nagaraja Kumar, IOGOOS Secretary, Indian Ocean Global Ocean Observing System (IOGOOS), Scientist In- charge, PFZ Mission, Indian National Centre for Ocean Information Services (INCOIS), 'Ocean Valley', Pragathi Nagar BO, Nizampet SO, Hyderabad-500054, Andhra Pradesh, India Email: <a href="mailto:raja@incois.gov.in">raja@incois.gov.in</a> ; <a href="mailto:raja.masuluri@gmail.com">raja.masuluri@gmail.com</a>	
IOGOOS	Dr. Brett Molony, IOGOOS Officer – East Indian Ocean CSIRO, Perth, Western Australia Email: <a href="mailto:brett.molony@csiro.au">brett.molony@csiro.au</a>	
IOGOOS	Dr. Faiza Al Yamani, IOGOOS Officer West Indian Ocean KISR, Kuwait Email: <a href="mailto:faizayamani@gmail.com">faizayamani@gmail.com</a>	
IOGOOS	Dr. Jenny Huggett, IOGOOS Officer, Project Representative Email: <a href="mailto:jenny.huggett@gmail.com">jenny.huggett@gmail.com</a>	
IOGOOS	Dr. Elaine McDonough, IOGOOS Officer, Project Representative Email: <a href="mailto:elmc@norcereasearch.no">elmc@norcereasearch.no</a>	
IRF Convener	Dr Nick D'Adamo. Adjunct Research Fellow, Oceans Institute of the University of Western Australia. Email: <a href="mailto:nick.dadamo@uwa.edu.au">nick.dadamo@uwa.edu.au</a>  <i>Note: Nick D'Adamo continued as interim Convener in a voluntary capacity, pending resolution of Convener replacement by IOGOOS (to be addressed at IRF-16)</i>	
<b>IRF Members – International Organisations</b>		<b>Alternate</b>

<a href="#">IOC</a>	Dr. Vladimir Ryabinin Executive Secretary, UNESCO IOC, 7 Place de Fontenoy, 75007, Paris, France Email: <a href="mailto:v.ryabinin@unesco.org">v.ryabinin@unesco.org</a>	<i>UNESCO IOC was invited to nominate an Alternate.</i>
<a href="#">ICPO</a>	Former rep retired TBA Executive Director International CLIVAR Project Office (ICPO)	Former rep retired TBA International CLIVAR Project Office

## IRF-16 APPENDIX 3

### IndOOS Resource Forum

### Terms of Reference (TOR)

#### Revised Version as ratified at IRF-12 on 16 March 2021

#### 1. Establishment

The IndOOS Resource Forum (IRF) was established by resolution of IOGOOS, incorporating the institutions that are currently committing resources to the Indian Ocean Observing System (IndOOS).

#### 2. Composition

**Members** and **Ex-Officios** of the IRF will be invited by the Chair of IOGOOS.

- **Members** will be comprised of representatives of institutions/organizations allocating or facilitating resources to accomplish the overall goals of IndOOS. The initial term for each member is two years, with possible extensions on a two-yearly basis.
- **Ex-Officios** will be Co-Chairs of the CLIVAR/IOC-GOOS Indian Ocean Region Panel (IORP) and the Chair and Co-Chairs of the Scientific Steering Committee of Sustained Indian Ocean Biogeochemistry and Ecosystem Research (SIBER) and representatives from the Indian Ocean Global Ocean Observing System (IOGOOS).

The Forum will review membership at each meeting and invite additional members as required. A member shall be deemed to be inactive if he/she does not attend an IRF meeting for 2 consecutive years and they are not actively contributing to the functions of the Forum. In these circumstances, the Secretariat will advise the Forum and write to that member notifying them that they will be rotated off the Forum.

#### 3. Functions

The main function of the IRF is to provide a multi-institutional forum to facilitate the alignment of resources for implementation of IndOOS, including the following:

- 3.1 To review the requirements for the implementation of IndOOS;
- 3.2 To facilitate and coordinate resources that may be applied to the system, especially ship time for the Research Moored Array for African-Asian-Australian Monsoon Analysis and Prediction (RAMA);
- 3.3 To encourage scientific and technological initiatives, in the participating countries, to meet the objectives of IndOOS;
- 3.4 To enhance and facilitate data and information sharing with regard to IndOOS; and
- 3.5 To report on its activities to the Heads of the institutions providing resources.

#### **4. Scientific and Technical Advisory Bodies**

In performing its tasks, the IRF should be guided by the scientific objectives and research strategy formulated by the IORP and the SIBER Scientific Coordinating Committee, which are regarded as the main scientific bodies to advise the IRF.

#### **5. Organization of Meetings**

5.1 The meetings of IRF will be organised annually. IRF will hold meetings at dates and places to be decided at the previous meeting. The Secretariat will be responsible for arranging meetings and will send invitations to attend to:

- All IRF Members and Ex-Officios;
- Experts invited as Observers by the Chair of the IRF, as deemed necessary for the deliberations in that specific session of the IRF.

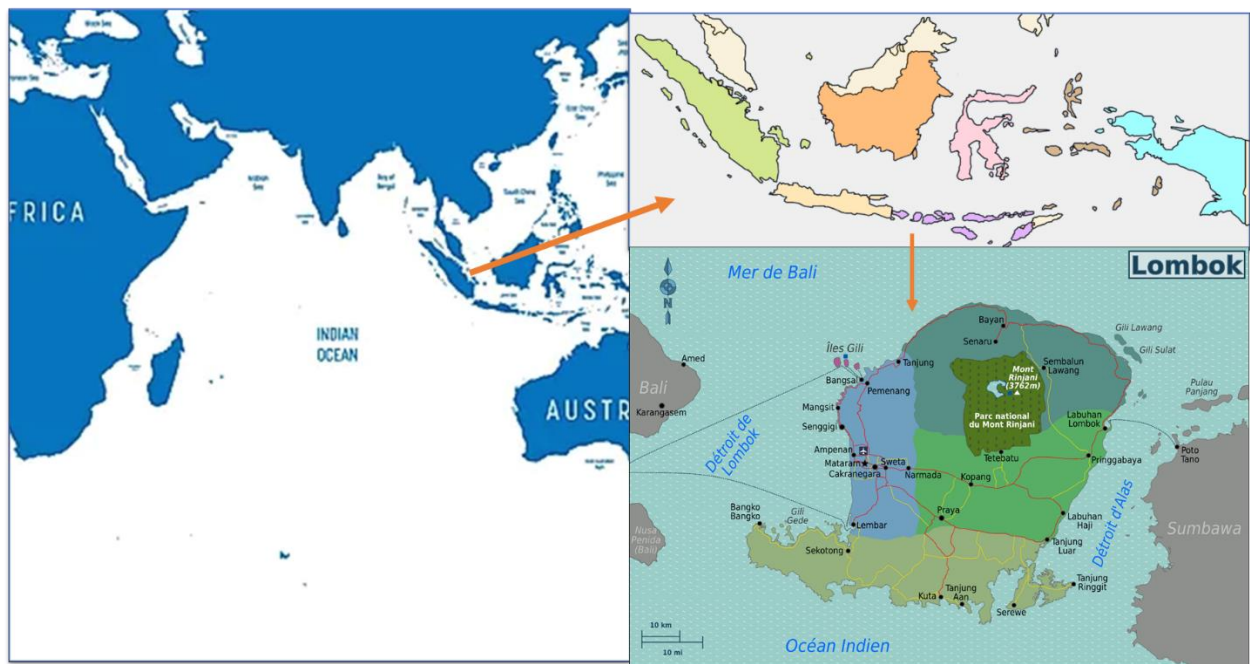
5.2 At the close of every other meeting (i.e. every 2 years), the IRF will elect from its members a Chair who will serve in that capacity for the next 2 years. An individual shall normally serve no more than two consecutive terms as Chair (i.e. 4 years total). However, if the IRF membership believes it is in the interests of IRF to retain an effective Chair for longer than two consecutive terms then this may be done by consensus of the IRF at the close of every other meeting (i.e. every 2 years). In the event of periods for which the Chair position is not designated and vacant, the IRF Convenor will represent that role as a pending measure.

5.3 Sessions will be conducted in English and reports published in that language.

5.4 IOGOOS will seek Secretariat support for the Forum from the UNESCO IOC Perth Programme Office. This role will be referred to as the IRF Convenor.

## **INTERNATIONAL INDIAN OCEAN SCIENCE CONFERENCE - 2024**

### **PARTICIPANT INFORMATION BOOKLET**



**Kawasan Sains Kurnaen Sumadiharga, Badan Riset dan Inovasi  
Nasional (BRIN), Lombok, Indonesia**

**March 04 – 08, 2024**

**IIOSC 2024 comprises:**

**IIOE-2 International Steering Committee (7<sup>th</sup> major meeting)**

**IOGOOS (19<sup>th</sup> major meeting)**

**IORP (19<sup>th</sup> major meeting)**

**IRF (16<sup>th</sup> major meeting)**

**SIBER (14<sup>th</sup> major meeting)**

**IOCINIO (Tentatively)**

**KUDOS**

**Version 2 Jan 2 2024**

## 1. Introduction

The Integrated annual meetings of IOGOOS and its allied programs (Indian Ocean Regional Panel (IORP), Sustained Indian Ocean Biogeochemistry and Ecosystem Research (SIBER), IndOOS Resource Forum (IRF), International Indian Ocean Expedition–2 (IIOE–2) Steering Group) meetings, IOCINDIO annual meeting (**Tentatively**) and KUDOS will take place during March 04–08, 2024 under the central theme of “International Indian Ocean Science Conference (IIOSC)–2024” at Lombok, Indonesia. These integrated meetings aim to review the progress and scientific knowledge gained due to concerted efforts of these regional bodies and to plan and discuss about the action plans to address the issues leading to UN Decade of Ocean Science for Sustainable Development (2021–2030).

This IIOSC 2024 brings members and secretariats of IIOE-2, IOGOOS, IORP, IRF and SIBER back to Lombok, Indonesia to meet again together in an integrated collegiate format in the Kawasan Sains Kurnaen Sumadiharga, Badan Riset dan Inovasi Nasional (BRIN).

*IIOE-2 (2015-25) - Second International Indian Ocean Expedition of UNESCO IOC, SCOR and IOGOOS*

*IOGOOS - Indian Ocean Global Ocean Observing System (a GOOS Regional Alliance) IORP - Indian Ocean Region Panel of CLIVAR/IOC-GOOS*

*IRF - Indian Ocean Observing System Resources Forum of IOGOOS*

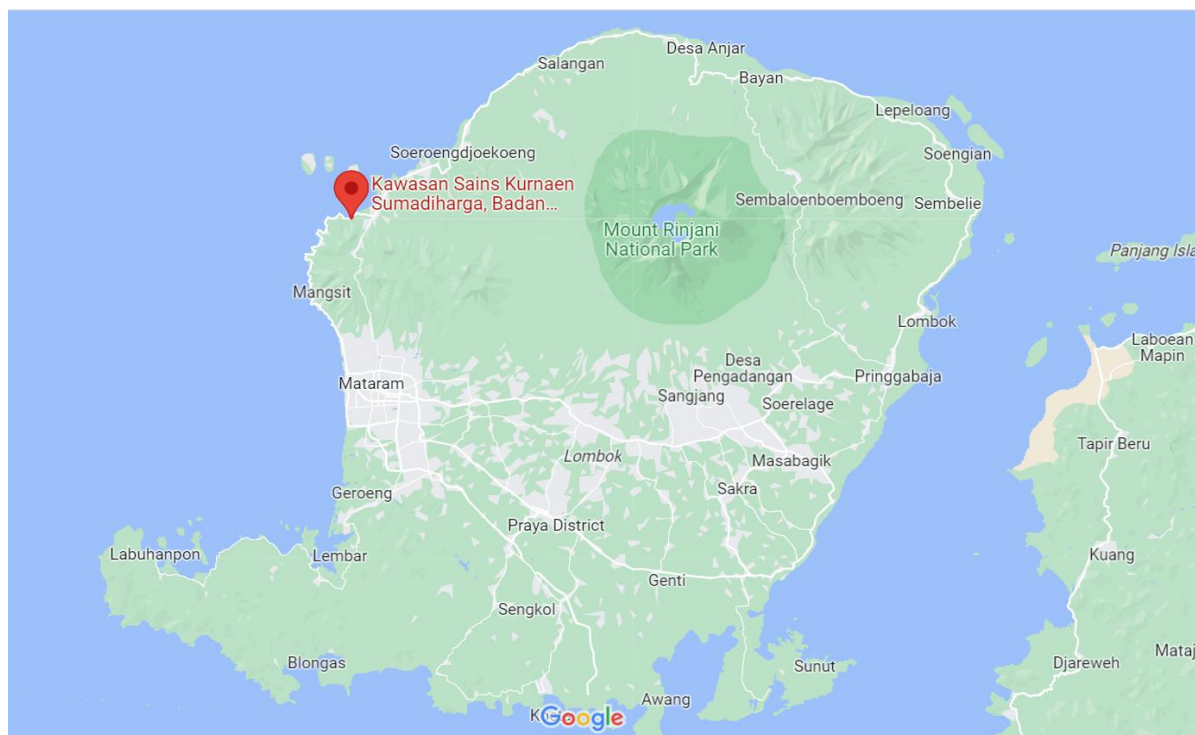
*SIBER - Sustained Indian Ocean Biogeochemistry and Ecosystem Research of IMBeR and IOGOOS*

## Hosts and Conference Venue



The conference is being hosted by “Research Centre for Marine and Inland Water Bio Industry – Research Organization for Earth Sciences and Maritime” of National Research and Innovation Agency (BRIN) of Indonesia.

The venue for the integrated meetings is situated in a beautiful island of Lombok, Indonesia and in the campus of “**Kawasan Sains Kurnaen Sumadiharga, Badan Riset dan Inovasi Nasional (BRIN)**”. The map coordinates of the venue is <https://maps.app.goo.gl/QQb4GbC3dQzmbZ3t5>.



### **Principal Coordinators for the conference:**

#### **Local Organizers:**

- Dr. Fahrurrozi the Director of Research Centre for Marine and Inland Water Bio Industry – Research Organization for Earth Sciences and Maritime, Lombok, Indonesia. Email: [fahr004@brin.go.id](mailto:fahr004@brin.go.id)
- Dr. Ocky Karna Radjasa Head of Earth and Maritime Research Organization, National Research, and Innovation Agency, Indonesia. Email: [ocky001@brin.go.id](mailto:ocky001@brin.go.id) ,

#### **IOGOOS Secretariat:**

- Mr. M Nagaraja Kumar, Co-Secretary, Indian Ocean Global Ocean Observing System, Scientist F & Division Head, Operational Ocean Services (OOS) – Indian National Centre for Ocean Information Services (INCOIS), Hyderabad, India. Email: [raja@incois.gov.in](mailto:raja@incois.gov.in).

#### **IIOE-2 Project Office, SIBER International Programme Office and IRF:**

- Dr. Anesh Lotliker chairperson of SIBER, IRF, IIOE – 2, Scientist F & Division Head, Ocean Observation Network (OON) – Indian National Centre for Ocean Information Services (INCOIS), Hyderabad, India. Email: [aneesh@incois.gov.in](mailto:aneesh@incois.gov.in)

#### **IORP Secretariat:**

- Dr. Agus Santoso, Director, International CLIVAR Project Office (ICPO), Qingdao, China. Email: [agus.santoso@clivar.org](mailto:agus.santoso@clivar.org)

### **Korea-US Indian Ocean Science (KUDOS) Research**

- Dr Dong-Jin Kang, Ph.D, Korea Institute of Ocean Science & Technology (KIOST), Busan 49111, Korea. Email: [djocean@kiost.ac.kr](mailto:djocean@kiost.ac.kr)

## **2. Meeting Schedules & Agenda**

PROVISIONAL SCHEDULE, TO BE FINALISED PRIOR TO CONFERENCE IIOSC 2024						
Annual meetings: IIOE-2 Steering Committee No 7, IOGOOS-19, IORP-19, IRF-18, SIBER-14						
Meeting rooms at BRIN will be advised in due course						
Time	Mon 4 Mar	Tues 5 Mar	Wed 6 Mar		Thu 7 Mar	Fri 8 mar
09.00-11.00	IIOE-2 SC		IORP and IndOOS		IRF	IOCINDIO
11.00-11.30	Tea Break					
11.30-13.00	IIOE-2 SC	IIOE-2 SC	IORP and IndOOS		IRF	IOCINDIO
13.00-14.00	Lunch Break					
14.00-15.30	IIOE-2 SC	IIOE-2 SC	IORP	SIBER	IOGOOS	KUDOS
15.30-16.00	Tea Break					
16.00-17.30	IIOE-2 SC	IIOE-2 SC	IORP	SIBER	IOGOOS	KUDOS
17.30-19.00	Evening informal meetings / Yet to be planned					

### **AGENDAS & PRESENTATIONS**

Detailed agendas for all meetings will be circulated to participants via the respective group secretariats of IIOE-2, IOGOOS, IORP, IRF and SIBER responsible for their own meetings. Refer questions on agendas to the relevant co-chairs/secretariats.

Please note that all co-chairs/secretariats will be required to provide their own laptop from which to run their meetings.

Please note that it is intended that all presentations given at the conference will be made available to participants (in PDF format) following the conclusion of the conference and subject to the approval of authors.

It is intended, as customary for these IIOSC events, for the IIOSC 2024 to be a fully in-person conference.

### 3. REGISTRATION

**Transfer bank account:**

Name Account : Ni Putu Deby Angraini

Account No : 469201045429533

Swift Code BRINIDJAXXX

Bank : PT. BANK RAKYAT INDONESIA (PERSERO), TBK

Bank Address : BRI I BUILDING, JALAN JENDERAL SUDIRMAN 44-46

City : JAKARTA

Country : Indonesia

Confirmation email : [wahy033@brin.go.id](mailto:wahy033@brin.go.id)

Transfer via Wise:

<https://wise.com/gb/swift-codes/BRINIDJAXXX>

Transfer via Remitly:

<https://www.remitly.com/gb/cs/indonesia/provider-bank-rakyat-indonesia>

Please note that the registration fee is EXCLUDES charges by the bank. We cannot process your registration if there is a shortfall in the amount we receive through telegraphic transfer. So please take note when transferring funds to indicate that the amount to be transferred excludes the administrative fee your bank will charge you. When bank transfer is used to pay a publication fee, please choose the right option, which is "US"! (among the three options you have: Ben, Our, Us). The option "Us" means that all the transfer fees are at your charge. Please note that in case you do not specify the "Us" option, the payment will not be valid.

Please send scanned transfer proof and complete the forms on the submit registration tab or send to our staff in here ([wahy033@brin.go.id](mailto:wahy033@brin.go.id)), so we can verify your payment in our bankbook.

***(SUBJECT TO MINOR UPDATES AS THE EVENT APPROACHES)***

Registration on a day-by-day basis is required.

Registration is **45 USD per day**. Registration will cover necessary non-sponsored logistical expenses and:

- a. Lunch estimated price for 40 participants: 400 USD
- b. Morning tea with light food estimated price for 40 participants: 300 USD
- c. Afternoon tea with light food estimated price for 40 participants: 300 USD
- d. Local Transport (Hotel to BRIN Conference roundtrip) estimated price for 40

- participants: 600 USD (mainland transportation)
- e. All day coffee, tea, and water
- f. Service fee 200 USD

A reception desk will be set-up in the lobby on the ground floor of the BRIN building and be staffed at the following times:

- Monday 4 March 2024: -----
- Tuesday 5 March 2024: -----
- Wednesday 6 March 2024: -----
- Thursday 7 March 2024: -----
- Friday 8 March 2024: -----

#### 4. Conference Facilities

- **Main Meeting Room:**
- Capacity: 80 persons
- Description: This is the primary meeting room on the campus, equipped to accommodate up to 80 individuals for various gatherings, conferences, or events.
  
- **Small Meeting Rooms (x3):**
- Capacity: 20 persons in each room (total of 60 persons)
- Description: The campus features three smaller meeting rooms, each capable of accommodating up to 20 people. These rooms are suitable for smaller group meetings, discussions, or breakout sessions.
  
- **Common Room:**
- Facilities: Tea, Coffee, Coconut water, and a Sunset View
- The common room is a comfortable and relaxing space where attendees can enjoy refreshments such as tea, coffee, and coconut water. Additionally, it offers a beautiful sunset view, providing a serene and enjoyable environment for networking or relaxation.
  
- **Power :**
- For Indonesia there are two associated plug types, C and F. Plug type C is the plug which has two round pins and plug type F is the plug which has two round pins, with two earth clips on the side. Participants are recommended to bring appropriate Power Adapters to enable use of wall sockets.

Indonesia operates on a 230V supply voltage and 50Hz.



Type C



Type F

- **Wi-Fi:**
- The campus offers a high-speed Wi-Fi network to ensure that all attendees can stay connected and access online resources during their stay. This service is essential for seamless communication and online activities.
  
- **Zoom:**
- The campus is equipped with Zoom video conferencing capabilities, enabling remote participants to join meetings, webinars, or virtual events. This ensures that your event can accommodate both on-site and remote attendees.
  
- **Sound System:**
- A quality sound system is available to enhance the audio experience during presentations, discussions, and events. Clear and crisp audio ensures that all attendees can hear and engage effectively.
  
- **TV Screen:**
- The campus provides TV screens for visual presentations and displays. These screens can be used for showcasing presentations, videos, and important information to the audience.

## 5. Accommodation

The organizers do not arrange hotel reservations and transportation to and from the airport. We only facilitate transportation between the hotel and the meeting venue, as well as transportation during the event if needed. Anything else is outside our responsibility. Participants can book hotels and airport transportation through internet searches. However, information to assist in hotel and airport transportation reservations is provided below.

1. The Kayana Beach (Mainland)  
 From Hotel – To BRIN (6 Min)  
 Price- 130-150 USD  
 For more details visit the hotel website: <https://www.thekayana.com/lombok/>
  
2. Royal Avilla Boutique Resort (Mainland)

From Hotel – To BRIN (18 Min)

Price- 145-213 USD

For more details visit the hotel website: <https://royalavila.com/>

3. Holiday Resort Lombok (Mainland)

From Hotel – To BRIN (25 Min)

Price- 62-131 USD

For more details visit the hotel website: <https://www.holidayresort-lombok.com>

4. Living Asia (Mainland)

From Hotel – To BRIN (21 Min)

Price- 60-125 USD

For more details visit the hotel website: <https://livingasiaresort.com/>

5. Marc Hotel Gili Trawangan Lombok (Gili Trawangan Island)

From Hotel – To Bangsal Port (27 Min)

Price- 60 USD

6. Gili Air Lagoon Resort By Waringin Hospitality (Gili Trawangan Island)

From Hotel – To Bangsal Port (20 Min)

Price- 67 USD

## 6. Transport

### Related transport suggestions:

*(the prices are subject to change without notice)*

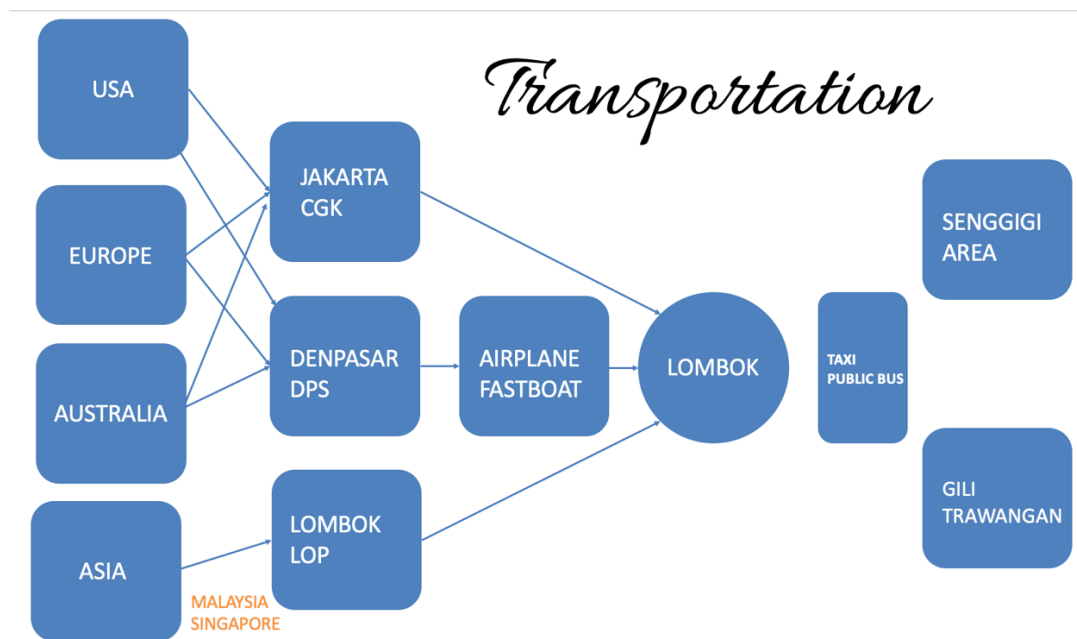
## FLIGHT JAKARTA – LOMBOK RETURN

### CGK → LOP

AIRLINES	Firs flight	Second flight	Third flight	Four flight	IDR / USD
Super Air Jet	07:00 – 10:00	10:45 – 13:45	14:40 – 17:35	16:45 – 19:45	1.355.600 / 91.29
Lion Air	05:00 – 08:00	12:05 – 15:00	-	-	1.363.300 / 92.70
<b>Batik Air</b>	06:00 – 09:00	09:20 – 12:20	-	-	1.519.800 / 102.34
Citilink	08:40 – 11:40	-	-	-	1.613.717 / 109.21
<b>Garuda</b>	11:00 – 14:00	17:25 – 20:30	-	-	1.878.320 / 126.48

### LOP → CGK

AIRLINES	Firs flight	Second flight	Third flight	Four flight	IDR / USD
Super Air Jet	06:05 – 05:05	10:45 – 11:45	14:25 – 15:20	18:15 – 19:10	1.355.600 / 91.29
Lion Air	08:40 – 09:35	15:40 – 16:35	-	-	1.363.300 / 92.70
<b>Batik Air</b>	09:40 – 10:35	13:00 – 13:55	-	-	1.519.800 / 102.34
Citilink	12:10 – 13:05	-	-	-	1.613.717 / 109.21
<b>Garuda</b>	08:00 – 09:00	14:50 – 15:55	-	-	1.878.320 / 126.48




Scheme for Transportation and hotel

### Addition information for Transportation from BRIN office to Gili Trawangan or Gili Air.


If a lot of participants want to stay in Gili Islands we can also book fast boat (as shown in below figure), so please fill the form for invitation letter, to know how much participant want to stay in Gili island.

# *Transportation*

BRIN Office to Gili Trawangan  
BRIN Office to Gili Air



Type of boat	: Fast boat (10 to 15 min.) one way
Capacity	: 8 – 10 persons
Price	: 100 USD (roundtrip)
Operate	: 07 AM to 10 PM



Type of boat	: Slow boat (30 to 40 min.) one way
Capacity	: 20 to 30 persons
Price	: 130 USD (roundtrip)
Operate	: 07 AM to 5 PM

PER → DPS

Airlines	Firs flight	Second flight	Third flight	Four flight	IDR / USD
Citilink	07:30-11:15	-	-	-	3.750.000 / 250
Batik Air	14:20-18:00	-	-	-	3.570.000 / 238

MEL → DPS

Airlines	Firs flight	Second flight	Third flight	Four flight	IDR / USD
Batik Air	06:00-08:50	-	-	-	5.490.000 / 366
Garuda	09:00-12:05	-	-	-	6.540.000 / 436
Virgin Australia	11:30-14:40	-	-	-	5.490.000 / 366
Jetstar	10:00-12:55	-	-	-	3.135.000 / 209
Qantas	17:55-21:00	-	-	-	5.475.000 / 365

SYD → DPS

Airlines	Firs flight	Second flight	Third flight	Four flight	IDR / USD
Qantas	16:35-20:00	-	-	-	5.400.000/360
Virgin Australia	17:55-21:25	-	-	-	5.355.000/357
Batik Air	06:55-10:20	-	-	-	5.580.000/372
Jetstar	17:25-20:55	06:35-10:00	-	-	6.135.000/409



Singapore to Lombok

Airlines	From	Stop	Lombok	IDR / USD
Batik	Singapore (SIN)	Surabaya (SUB)	Lombok (LOP)	2.473.100 / 162
Garuda	Singapore (SIN)	Jakarta (CGK)	Lombok (LOP)	3.487.000 / 228

Malaysia to Lombok

Airlines	From	Stop	Lombok	IDR / USD
Air Asia	Kuala Lumpur (KUL)	-	Lombok (LOP)	824.226 / 54
Super Air Jet	Kuala Lumpur (KUL)	-	Lombok (LOP)	1.333.700 / 87

Harbour PadangBai(Bali) → Harbour Bangsal (Lombok)

Fast Boat	Depure	Depure	IDR / USD
Eka Jaya	09:00-12:15	10:30-14:45	435.000/29
Pier	08:30-10:50	09:00-12:15	765.000/51

Harbour Bangsal (Lombok) → PadangBai(Bali)

Fast Boat	Depure	Depure	IDR / USD
Ostina	11:55-14:25	12:30-15:00	390.000/26
Eka Jaya	15:00-16:30	-	435.000/29

## 8. Invitation Letter

The delegates who would like to have the invitation letter from the local host may fill in the form given in the below link.

**Link for invitation letter:**

[https://docs.google.com/forms/d/e/1FAIpQLSeUevWDvhsm2AdOc7XdU3feH0jg1PL5KrXm3W\\_yXAjDLBpQpQ/viewform](https://docs.google.com/forms/d/e/1FAIpQLSeUevWDvhsm2AdOc7XdU3feH0jg1PL5KrXm3W_yXAjDLBpQpQ/viewform)).

## 9. Visa

The Government of the Republic of Indonesia has entered into a Diplomatic and Service Visa Free Agreement (PBVDD) with 94 (ninety-four) friendly countries. All diplomatic and service passport holders originating from 94 (ninety-four) partner countries are permitted to visit Indonesia without a visa, for all visit purposes (diplomatic, official and personal), provided that they must comply with health protocols in accordance with the Circular Letter

Covid Task Force No. 25 of 2022 concerning Health Protocols for Overseas Travel during the Corona Virus Disease 2019 (Covid-19) Pandemic.

The following is the latest list of friendly countries that have established PBVDD with the Indonesian government.

<b>NO</b>	<b>Partner Countries</b>	<b>STAY</b>
<b>1</b>	<b>South Africa</b>	30 Days
<b>2</b>	<b>Albania</b>	30 Days
<b>3</b>	<b>Angola</b>	30 Days
<b>4</b>	<b>Antigua &amp; Barbuda</b>	30 Days
<b>5</b>	<b>Argentina</b>	30 Days
<b>6</b>	<b>Armenia</b>	30 Days
<b>7</b>	<b>Austria</b>	30 Days
<b>8</b>	<b>Azerbaijan</b>	30 Days
<b>9</b>	<b>Bahrain</b>	30 Days
<b>10</b>	<b>Bangladesh</b>	30 Days
<b>11</b>	<b>Netherland</b>	30 Days
<b>12</b>	<b>Belarus</b>	30 Days
<b>13</b>	<b>Belgium</b>	30 Days
<b>14</b>	<b>Bosnia and Herzegovina</b>	30 Days
<b>15</b>	<b>Brazil</b>	14 - 30 Days
<b>16</b>	<b>Brunei Darussalam</b>	14 Days
<b>17</b>	<b>Bulgaria</b>	30 Days
<b>18</b>	<b>Burundi</b>	30 Days
<b>19</b>	<b>Czech</b>	30 Days
<b>20</b>	<b>Chile</b>	30 Days

<b>21</b>	<b>Ecuador</b>	14 - 30 Days
<b>22</b>	<b>El Salvador</b>	30 Days
<b>23</b>	<b>Ethiopia</b>	30 Days
<b>24</b>	<b>Fiji</b>	30 Days
<b>25</b>	<b>Filipina</b>	21 Days
<b>26</b>	<b>Finland</b>	30 Days
<b>27</b>	<b>Georgia</b>	30 Days
<b>28</b>	<b>Guinea Equatorial</b>	30 Days
<b>29</b>	<b>Guyana</b>	30 Days
<b>30</b>	<b>Hungarian</b>	30 Days
<b>31</b>	<b>India</b>	30 Days
<b>32</b>	<b>England (Diplomatic passport)</b>	30 Days
<b>33</b>	<b>Iran</b>	30 Days
<b>34</b>	<b>Italia</b>	30 Days
<b>35</b>	<b>Japan</b>	30 Days
<b>36</b>	<b>Cambodia</b>	14 Days
<b>37</b>	<b>Kazakhstan</b>	30 Days
<b>38</b>	<b>Solomon Islands</b>	30 Days
<b>39</b>	<b>Colombia (Diplomatic passport, Duty, Reguler)</b>	30 Days
<b>40</b>	<b>South Korea</b>	14 - 30 Days
<b>41</b>	<b>North Korea</b>	14 Days

42	<b>Costa Rika</b>	30 Days
43	<b>Croatia</b>	30 Days
44	<b>Cuba</b>	30 Days
45	<b>Kuwait</b>	30 Days
46	<b>Kyrgyzstan</b>	30 Days
47	<b>Laos</b>	14 Days
48	<b>Lithuania</b>	30 Days
49	<b>Luxemburg</b>	30 Days
50	<b>Makedonia</b>	30 Days
51	<b>Malaysia</b>	30 Days
52	<b>Morocco</b>	30 Days
53	<b>Mexico</b>	30 Days
54	<b>Egypt</b>	30 Days
55	<b>Moldova</b>	30 Days
56	<b>Mongolia</b>	30 Days
57	<b>Montenegro</b>	30 Days
58	<b>Mozambique</b>	30 Days
59	<b>Myanmar</b>	14 Days
60	<b>Niger</b>	30 Days
61	<b>Nicaragua</b>	30 Days
62	<b>Norway</b>	30 Days
63	<b>Pakistan</b>	30 Days
64	<b>Panama</b>	30 Days
65	<b>Paraguay</b>	30 Days
66	<b>Peru</b>	30 Days
67	<b>France</b>	30 Days
68	<b>Poland</b>	30 Days
69	<b>Portugal</b>	30 Days

70	<b>Qatar</b>	30 Days
71	<b>Romania</b>	30 Days
72	<b>Russia</b>	14 Days
73	<b>Saint Kitts &amp; Nevis</b>	30 Days
74	<b>Senegal</b>	30 Days
75	<b>Serbia</b>	30 Days
76	<b>Singapura</b>	30 Days
77	<b>Slovakia</b>	30 Days
78	<b>Slovenia</b>	30 Days
79	<b>Sri Lanka</b>	30 Days
80	<b>Suriname (paspor diplomatik, dinas, biasa)</b>	30 Days
81	<b>Swiss</b>	30 Days
82	<b>Tajikistan</b>	30 Days
83	<b>Thailand</b>	30 Days
84	<b>Timor Leste</b>	30 Days
85	<b>China</b>	30 Days
86	<b>Tunisia</b>	30 Days
87	<b>Turkey</b>	30 Days
88	<b>Uni Emirat Arab</b>	30 Days
89	<b>Ukraine</b>	30 Days
90	<b>Uruguay</b>	30 Days
91	<b>Venezuela</b>	30 Days
92	<b>Vietnam</b>	14 Days
93	<b>Jordan</b>	30 Days
94	<b>Greece</b>	30 Days

For up-to-date information and visa requirements, all the participants may check with the websites of respective missions or their offices in your country.

## **10. Other general information:**

### **Souvenir:**

- As a token of appreciation, the campus offers souvenirs that attendees can take home as a memento of their visit. These souvenirs serve as a reminder of the event and create a lasting impression.

### **Documentation:**

- Comprehensive documentation of the event, including schedules, programs, and relevant materials, is provided to all attendees. This ensures that participants have easy access to event information and resources.

### **Press Conference:**

- The campus is well-equipped to host press conferences, offering facilities and services to support media coverage. This is particularly important for events that require media exposure and attention from the press.
- These services collectively enhance the overall experience and functionality of the campus, ensuring that it can accommodate a wide range of events, from meetings and presentations to special gatherings and press-related activities.
- Top of Form