



CS - MACH1

D1.4 External Advisory Board Establishment

Viviana Piermattei, Camilla Campanati (CMCC)

November 2025



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the European Union**

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Table of Contents

List of referenced acronyms	5
List of tables	5
1. Executive Summary	6
2. Scope of the document	6
3. External Advisory Board members	6
4. EAB roles	8
5. Annexes	9

List of referenced acronyms

CMCC	Centro Euro-Mediterraneo sui Cambiamenti Climatici
EAB	External Advisory Board
EuroGOOS	European Global Ocean Observing System
GA	General Assembly
IOC	Intergovernmental Oceanographic Commission of UNESCO
WMO	World Meteorological Organization
WP	Work Package

List of tables

#	Title	Page
1	CS-MACH1 EAB members list	6-8

1. Executive Summary

This document attest to the formation of the External Advisory Board (EAB), providing details about selected members, their qualifications, and the terms of reference for their role.

8 members were selected to join the project EAB, among which 50% females, 5 from European countries and 3 from the United States.

2. Scope of the document

This document attest to the formation of the External Advisory Board (EAB), providing details about selected members, their qualifications, and the terms of reference for their role.

CMCC-Led-WP1 – Project coordination and management – will oversee the EAB engagement

3. External Advisory Board members

The EAB was established inviting a panel of multidisciplinary experienced professionals to participate in the general assemblies and provide scientific support and assessment in the different stages of the project and provide an additional layer of quality control, advice and validation of the project’s outcomes, impacts and outreach.

The list of experts aimed at covering expertise in the various aspects the project addresses: observing systems, technology, outreach and communication, data management, policy.

Likewise, both EU and external (US-based) members were selected to have a more comprehensive review and viewpoint.

Special care was taken to ensure the board remained gender-balanced.

Table 1. CS-MACH1 EAB members listed in alphabetic order, with their specific affiliation and expertise

EAB Member	Affiliation	Expertise
Dr. Mathieu Belbeoch	Manager of the joint IOC-WMO centre OceanOPS.	Dr. Belbeoch has more than 20 years of experience at the international level in the ocean observation systems implementation and governance . He has supported the development of the Argo programme as Technical Coordinator, and made of OceanOPS a

		firm operational centre to support main in-situ ocean observing systems. OceanOPS will contribute to the project in the capacity of External Advisory Board member and not as Associated Partner as planned. An amendment is foreseen to remove OceanOPS as Associated Partner from the Consortium.
Dr. Ghada El Serafy	Co-Chair of EuroGOOS Executive Directors Board	Specialist in Data Assimilation, Data Sciences and Applied Informatics; Expert on data sciences in ecosystem modelling and services. As a co-chair of EuroGOOS will act on behalf of EuroGOOS in the Board and contribute to supporting the project's objectives and activities.
Dr. Michael Oellermann	Technology Transfer Manager, Alfred Wegener Institute, Bremerhaven	Technology Transfer Manager for the Helmholtz project Shaping an Ocean of Possibilities for science-industry collaboration (SOOP), Innovation support/coach, Technology scouting, Innovation marketing
Dr. Lisa Picatto	JPI Oceans Communication Officer	Science communication, ocean literacy, citizen science. Lisa is part of the JPI Oceans secretariat, managing the European Marinas Network, a JPI Oceans initiative that enables marinas to become hubs for ocean science through environmental data collection, citizen science, and ocean literacy.
Dr. Richard Signell	Physical Oceanographer, Data Scientist and Founder, Open Science Computing, LLC	Ocean observing system, data management, interoperability. Formerly employed at US Geological Survey in Woods Hole
Dr. Toste Tanhua	Senior Scientist GEOMAR, Coordinator of SOOP	Chemical oceanography and ocean observing systems. Coordinator of the Helmholtz project Shaping an Ocean of Possibilities for science-industry collaboration (SOOP).
Dr. Amy West	Program Manager at Synchro Decade Project, Monterey	Ocean Technology Marine technology and role of Synchro Program Manager -Synchro is a UN

	Bay Aquarium Research Institute (MBARI)	Ocean Decade endorsed project of the Ocean Observing Co-Design Programme implemented by the Global Ocean Observing System. In 2023, she became Synchro's program manager, leading a large collaborative initiative to advance marine technology and support users working on resource management and conservation issues, including climate change and offshore wind.
Dr. Ann-Christine Zinkann Informal acceptance, with the formal signature to follow shortly.	Program Manager, The Global Ocean Monitoring and Observing Program, National Oceanic and Atmospheric Administration, Ocean and Atmospheric Research (NOAA)	Ocean observing systems. Ocean Observing initiatives and role as a program manager of the The Global Ocean Monitoring and Observing Program at NOAA. Her portfolio includes Atlantic observing initiatives, the GLOSS network, GOOS Observations Coordination Group (OCG) activities, and metadata management with OceanOPS, along with assessing how to make ocean observing systems more agile and responsive to societal needs.

4. EAB roles

The External Advisory Board (EAB) members commitment will include participating in the General Assemblies (GAs) - whenever possible in person (with costs covered by the project), though hybrid participation will also be ensured.

In the GAs, during which the consortium will present progress on project activities, the EAB will provide any guidance for improvements and support in the monitoring of KPIs achievements. The GAs include: One Mid-term meeting, organised in Malta to be held by June 2026 and one final conference in November 2027.

These meetings, where all the partners will be participating, will also be preparatory for the periodic reportings and European Commission reviews of the project achievements. The involvement of the EAB members will therefore be pivotal in providing advice to enhance the quality and relevance of the project outputs, as in guiding the consortium in addressing any potential risks or challenges encountered during implementation.

Upon acceptance to join the CS-MACH1 EAB, the members signed a letter of acceptance accompanied by a standard Non-Disclosure Agreement (NDA), as required by the project Grant Agreement for the EAB (see in Annex).

5. Annexes

Signed letters of acceptance with NdAs from the EAB members.

The original letters are available upon request.

INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION
COMMISSION Océanographique Intergouvernementale
COMISION OCEANOGRÁFICA INTERGUBERNAMENTAL
МЕЖПРАВИТЕЛЬСТВЕННАЯ ОКЕАНОГРАФИЧЕСКАЯ КОМИССИЯ



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F-29280 Plouzané, France
Tel: +33 2 29 00 85 85
Email: support@ocean-ops.org

12 November, 2025

Subject: Acceptance to Join the External Advisory Board of the CS-MACH1 Project

Dear Viviana,

I am writing to formally accept your invitation to join the External Advisory Board (EAB) of “CS MACH1 -Marine Citizen Science data Horizon” funded under the **HORIZON-MISS-2024-OCEAN-01-04** call: **Science for Community – Building the marine Citizen Science data network of the future to valorise data coming from the ocean and increase engagement.**

It is a privilege to contribute to this ambitious initiative, which sets an important step towards the overcoming of existing citizen science empowerment barriers, such as the accessibility, recognition, trust and sharing, of clustered and localised data, through the establishment and coordination of a pan-European Marine Citizen Science data network.

I am particularly interested in supporting the consortium’s efforts in this vital advancement to enable the efforts of large-scale observations from citizens and initiatives, equipped with low-cost sensors, to provide the wider community trustable data through integration in existing data management platforms.

As a member of the EAB, representing our Institution: OceanOPS (WMO-UNESCO/IOC), I understand that my role will include participating to relevant project meetings to analyse the quality and the innovation potential of the CS MACH1 outcomes, review the scientific progress during the project life, and advice on improvements and adjustments. I am committed to offering constructive input to help monitoring the KPIs and ensure the project achieves its objectives and deliver meaningful outcomes.

As member of the EAB, I am bound not to discuss or disclose any information related to the project (strategic, commercial, technical, financial or otherwise) that is not rated as public, in accordance with the Non-Disclosure Agreement (NDA) for EAB, agreed under Section 6 of the Consortium Agreement, attached to this letter.

Thank you once again for this opportunity. I look forward collaborating with the consortium and the other members of the EAB.

Sincerely,

Mathieu Belbeoch, Manager of the joint WMO-IOC/UNESCO centre OceanOPS



NDA for External Expert Advisory Board agreed under Section 6

Of

Mathieu Belbeoch, OceanOPS, Technopole/Campus Ifremer, 1625 Route de Saint Anne, Z.I. Pointe du Diable, 29280 Plouzané, France

- hereinafter referred to as “the External Advisory Board Member”

towards

the Parties of the Consortium Agreement of the Project called CS_MACH1 (Horizon Europe N° 101214613):

1. **Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici (FONDAZIONE CMCC)**, with legal address in via Marco Biagi 5, 73100 Lecce, Italy, the Coordinator
2. **SVERIGES METEOROLOGISKA OCH HYDROLOGISKA INSTITUT (SMHI)**, with legal address in Folkborgsvägen 1, Norrköping 601 76, Sweden,
3. **ETT SPA (ETT SPA)**, with legal address in Via Enrico Albareto 21, Genova 16153, Italy,
4. **MARIENE INFORMATIE SERVICE MARIS BV (MARIS)**, with legal address in Gildeweg 7A, Nootdorp 2632 BD, Netherlands,
5. **OUTBE SRL SOCIETÀ BENEFIT (OUTBE)**, with legal address in Via Nino Bixio 19, Chiavari 16043, Italy,
6. **INSTITUT FRANÇAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER (Ifremer)**, with legal address in 1625 ROUTE DE SAINTE ANNE ZONE INDUSTRIELLE DE LA POINTE DU DIABLE, Plouzané 29280, France,
7. **SEASCAPE BELGIUM (SSBE)**, with legal address in Avenue Louise 331, B5 Ixelles 1050, Belgium,
8. **AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS M.P. (CSIC)**, with legal address in Calle Serrano 117, Madrid 28006, Spain,
9. **NATIONAL OCEANOGRAPHY CENTRE (NOC-BODC)**, a registered charity in England and Wales with charity number 1185265 and in Scotland with charity number SC049896, whose registered office is at European Way, Southampton, Hampshire SO14 3ZH, United Kingdom,
10. **AMERICAN UNIVERSITY OF ARMENIA FOUNDATION (AUAF)**, with legal address in Baghramyan Avenue 40, Yerevan 0019, Armenia,
11. **VEREIN DER EUROPÄISCHEN BÜRGERWISSENSCHAFTEN - ECSA E.V. (ECSA)**, with legal address in Invalidenstr. 43, Berlin 10115, Germany,
12. **VLAAMS INSTITUUT VOOR DE ZEE (VLIZ)**, with legal address in Jacobsenstraat 1, Oostende 8400, Belgium,
13. **L-UNIVERSITÀ TA' MALTA (UM)**, with legal address in TAL QROQQ MSD 2080, MSIDA, Malta,
14. **IEEE FRANCE SECTION (IEEE)**, with legal address in c/o SEE 17 rue de l'Amiral Hamelin, Paris Cedex 16 75116, France,

hereinafter, jointly or individually, referred to as “Parties” or “Party”

Whereas:

A. The Parties of the Project are carrying out the Project CS-MACH1 (Horizon Europe Grant Agreement No 101214613)

- hereinafter referred to as “Project” –

And

B. The External Advisory Board Member has been recruited to act as a member of the External Advisory Board established for the Project according to the EU Grant Agreement and for a period of 24 months, starting 30/11/2025

and

C. In the course of the External Advisory Board Member's work within the Project, the Parties may wish to disclose technical and/or commercial information of a confidential nature to the External Advisory Board Member, and wish to ensure that the same remain confidential. This Undertaking only covers exchange of information between one or more Project Partners on the one side and the External Advisory Board Member on the other. Exchange of information between Project Partners alone shall remain regulated by the Consortium Agreement.

Now, therefore, the External Advisory Board Member shall undertake the following:

1) For the purposes of this Undertaking « Sensitive Information» shall mean such technical and/or commercial information, including but not limited to any documents, drawings, sketches or designs, materials or samples (including software) disclosed by the Project Partners to the External Advisory Board Member, which has been explicitly marked as “Sensitive” at the time of disclosure, or when disclosed orally has been identified as confidential at the time of disclosure and has been confirmed and designated in writing within 15 calendar days from oral disclosure at the latest as Sensitive information.

2) The External Advisory Board Member undertakes to treat as confidential, as it does for its own proprietary information of like importance, but at least with a reasonable degree of care, all and any Sensitive Information and agree not to disclose the same to any third party except with the Project Partners' prior written consent and to use Sensitive Information only for the purpose of fulfilling the External Advisory Board Member's tasks. The External Advisory Board member shall take all necessary and appropriate precautions to prevent the unauthorized disclosure or access to Sensitive Information to third parties.

3) The restrictions on the use and disclosure of Sensitive Information shall not apply to any information which is:

- (a) proven to have been known to or developed by the External Advisory Board Member prior to the time of its receipt pursuant to this Undertaking; or
- (b) already in the public domain at the time of disclosure to the External Advisory Board Member or thereafter enters the public domain without breach of the terms of this Undertaking; or
- (c) lawfully acquired by the External Advisory Board Member from an independent source having a bona fide right to disclose the same and/or that does not have a nondisclosure obligation with respect to it; or
- (d) independently developed by the External Advisory Board Member who has not had access to any of the Project Partners' Sensitive Information.

4) Unless it is necessary for the fulfilment of the External Advisory Board Member's tasks within the Project, the External Advisory Board Member shall not, without the Project Partners' prior written consent, copy or reproduce any document provided to the External Advisory Board Member containing in whole or in part Sensitive Information and any party receiving any such document shall return or destroy the same and any copies, extracts or other reproductions regarding Sensitive Information, thereof on the Project Partners' request but the latest on the date of termination of this Undertaking.

5) All Sensitive Information supplied pursuant to this Undertaking shall remain the property of the Project Partner supplying it and no rights, including but not limited to the right to apply for industrial property rights, are granted to the External Advisory Board Member.

6) All Sensitive information is provided “as is”. No warranty or representation of any kind is made, given or implied as to the sufficiency or fitness for purpose nor as to the absence of any infringement of any proprietary rights of third parties.

Therefore, the External Advisory Board Member shall in all cases be entirely and solely liable for the use to which it puts such information and materials, and no Project Partner granting access rights shall be liable in case of infringement of proprietary rights of a third party resulting from any other Party (or its Affiliated Entities) exercising its access rights.

7) Any sample or material which may be supplied by any of the Project Partners to the External Advisory Board Member shall be treated as confidential according to section 2 to 5 of this Undertaking and shall be used only for the purposes of fulfilling the External Advisory Board Member's tasks.

The External Advisory Board Member shall not analyze, decompile or reverse-engineer the sample or software to determine the identity and/or properties of components used to prepare the sample or software. Any sample or software shall be returned to the Project Partners at the Project Partners' request, but the latest until termination of this Undertaking.

8) This Undertaking shall come into force on the date of the last signature with retroactive effect as of the date mentioned under B above, and shall thereafter continue until <end of project>. The obligation of confidentiality hereunder shall continue in force for 5 years from the end of the Project.

9) Amendments or additions to this Undertaking must be made in writing.

10) This Undertaking is subject to resolution in accordance with the provisions of Settlement of disputes in Section 11.8 of the Consortium Agreement: The Parties shall endeavour to settle their disputes amicably. All disputes arising out of or in connection with this Consortium Agreement, which cannot be solved amicably, shall be finally settled by the courts of Brussels.

11) If any provision of this Undertaking is determined to be illegal or in conflict with the applicable law, the validity of the remaining provisions shall not be affected. The ineffective provision shall be replaced by an effective provision which is economically equivalent. The same shall apply in case of a gap.

.....

Mathieu Belbeoch,

Manager of the joint WMO-UNESCO/IOC centre OceanOPS

mbelbeoch@ocean-ops.org | +33 2 29 00 85 86

Signature



Signed on behalf of the External Advisory Board Member



EG25.13
28.11.2025

Brussels, 28 November 2025

Dr. Viviana Piermattei
CS-MACH1 Coordinator
Global Coastal Ocean Division
Euro-Mediterranean Center on Climate Change

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Sincerely,

Ghada El Serafy



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29 Rue Vautier - 1000 Brussels BELGIUM
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info@eurogoos.eu - <http://eurogoos.eu> - Tel: +32 (0) 2 788 76 66

NDA for External Expert Advisory Board agreed under Section 6

Of

Ghada El Serafy, EuroGOOS AISBL, 29 rue Vautier, 1000 Brussels

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5) All Sensitive Information supplied pursuant to this Undertaking shall remain the property of the Project Partner supplying it and no rights, including but not limited to the right to apply for industrial property rights, are granted to the External Advisory Board Member.

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GS

.....
Ghada El Serafy
Vice-Chair, EuroGOOS Executive Directors Board

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CMCC Foundation - Euro-Mediterranean Center on Climate Change
 Dr. Viviana Piermattei - CS-MACH1 Coordinator
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 Via Marco Biagi 5
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Bremerhaven, 20.11.2025

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 Technology Transfer Manager

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Bussestrasse 27
 27570 Bremerhaven

LETTER OF ACCEPTANCE

Subject: Acceptance to Join the External Advisory Board of the CS-MACH1 Project

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Alfred-Wegener-Institut
 Helmholtz-Zentrum für
 Polar- und Meeresforschung
BREMERHAVEN

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Stiftung des öffentlichen Rechts

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 MinDir Stefan Müller

Direktorium:
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 (Direktor (komm.))
 Dr. Karsten Wurr
 (Verwaltungsdirektor)

Prof. Dr. Thomas Jung
 (Stellvertretender Direktor)
 Dr. Uwe Nixdorf
 (Stellvertretender Direktor)

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HELMHOLTZ

constructive input to help monitoring the KPIs and ensure the project achieves its objectives and deliver meaningful outcomes.

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Thank you once again for this opportunity. I look forward collaborating with the consortium and the other members of the EAB.

Sincerely,

Michael Oellermann, PhD

Technology Transfer Manager, Alfred Wegener Institute, Helmholtz Center for Polar and Marine Research

Michael.oellermann@awi.de | +49 471 4831 2365



HELMHOLTZ

NDA for External Expert Advisory Board agreed under Section 6

Of

Michael Oellermann, Alfred Wegener Institute, Helmholtz Center for Polar and Marine Research, Am Handelshafen 12, Bremerhaven, Germany

- hereinafter referred to as “the External Advisory Board Member”

towards

the Parties of the Consortium Agreement of the Project called CS_MACH1 (Horizon Europe N° 101214613):

1. **Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici (FONDAZIONE CMCC)**, with legal address in via Marco Biagi 5, 73100 Lecce, Italy, the Coordinator
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And

B. The External Advisory Board Member has been recruited to act as a member of the External Advisory Board established for the Project according to the EU Grant Agreement and for a period of 24 months, starting 30/11/2025

and

C. In the course of the External Advisory Board Member's work within the Project, the Parties may wish to disclose technical and/or commercial information of a confidential nature to the External Advisory Board Member, and wish to ensure that the same remain confidential. This Undertaking only covers exchange of information between one or more Project Partners on the one side and the External Advisory Board Member on the other. Exchange of

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Therefore, the External Advisory Board Member shall in all cases be entirely and solely liable for the use to which it puts such information and materials, and no Project Partner granting access rights shall be liable in case of infringement of proprietary rights of a third party resulting from any other Party (or its Affiliated Entities) exercising its access rights.

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Michael Oellermann, PhD
Technology Transfer Manager, Alfred Wegener Institute, Helmholtz Center for
Polar and Marine Research
michael.oellermann@awi.de | +49 471 4831 2365

**HELMHOLTZ**



LETTER OF ACCEPTANCE

Brussels, 19 November 2025

To: Dr. Viviana Piermattei
CS-MACH1 Coordinator
Global Coastal Ocean Division
Euro-Mediterranean Center on Climate Change

Subject: Acceptance to Join the External Advisory Board of the CS-MACH1 Project

Dear Viviana,

I am writing to formally accept your invitation to join the External Advisory Board (EAB) of “CS MACH1 -Marine Citizen Science data Horizon” funded under the **HORIZON-MISS-2024-OCEAN-01-04** call: **Science for Community – Building the marine Citizen Science data network of the future to valorise data coming from the ocean and increase engagement.**

It is a privilege to contribute to this ambitious initiative, which sets an important step towards the overcoming of existing citizen science empowerment barriers, such as the accessibility, recognition, trust and sharing, of clustered and localised data, through the establishment and coordination of a pan-European Marine Citizen Science data network.

I am particularly interested in supporting the consortium’s efforts in this vital advancement to enable the efforts of large-scale observations from citizens and initiatives, equipped with low-cost sensors, to provide the wider community trustable data through integration in existing data management platforms.

As a member of the EAB, representing JPI Oceans, I understand that my role will include participating (financially supported by the project) to relevant project meetings to analyse the quality and the innovation potential of the CS MACH1 outcomes, review the scientific progress during the project life, and advice on improvements and adjustments. I am committed to offering constructive input to help monitoring the KPIs and ensure the project achieves its objectives and deliver meaningful outcomes.

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Thank you once again for this opportunity. I look forward collaborating with the consortium and the other members of the EAB.

Sincerely,

Lisa Picatto,

JPI Oceans Communication Officer,

lisa.picatto@jpi-oceans.eu

Lisa Picatto



NDA for External Expert Advisory Board agreed under Section 6

Of

Lisa Picatto, JPI Oceans, Rue du Trône 4, 1000 Brussels, Belgium

- hereinafter referred to as “the External Advisory Board Member”

towards

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14. **IEEE FRANCE SECTION (IEEE)**, with legal address in c/o SEE 17 rue de l'Amiral Hamelin, Paris Cedex 16 75116, France,

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And

B. The External Advisory Board Member has been recruited to act as a member of the External Advisory Board established for the Project according to the EU Grant Agreement and for a period of 24 months, starting 30/11/2025

and

C. In the course of the External Advisory Board Member's work within the Project, the Parties may wish to disclose technical and/or commercial information of a confidential nature to the External Advisory Board Member, and wish to ensure that the same remain confidential. This Undertaking only covers exchange of information between one or more Project Partners on the one side and the External Advisory Board Member on the other. Exchange of information between Project Partners alone shall remain regulated by the Consortium Agreement.

Now, therefore, the External Advisory Board Member shall undertake the following:

1) For the purposes of this Undertaking « Sensitive Information» shall mean such technical and/or commercial information, including but not limited to any documents, drawings, sketches or designs, materials or samples (including software) disclosed by the Project Partners to the External Advisory Board Member, which has been explicitly marked as “Sensitive” at the time of disclosure, or when disclosed orally has been identified as confidential at the time of disclosure and has been confirmed and designated in writing within 15 calendar days from oral disclosure at the latest as Sensitive information.

2) The External Advisory Board Member undertakes to treat as confidential, as it does for its own proprietary information of like importance, but at least with a reasonable degree of care, all and any Sensitive Information and agree not to disclose the same to any third party except with the Project Partners' prior written consent and to use Sensitive



Information only for the purpose of fulfilling the External Advisory Board Member's tasks. The External Advisory Board member shall take all necessary and appropriate precautions to prevent the unauthorized disclosure or access to Sensitive Information to third parties.

3) The restrictions on the use and disclosure of Sensitive Information shall not apply to any information which is:

- (a) proven to have been known to or developed by the External Advisory Board Member prior to the time of its receipt pursuant to this Undertaking; or
- (b) already in the public domain at the time of disclosure to the External Advisory Board Member or thereafter enters the public domain without breach of the terms of this Undertaking; or
- (c) lawfully acquired by the External Advisory Board Member from an independent source having a bona fide right to disclose the same and/or that does not have a nondisclosure obligation with respect to it; or
- (d) independently developed by the External Advisory Board Member who has not had access to any of the Project Partners' Sensitive Information.

4) Unless it is necessary for the fulfilment of the External Advisory Board Member's tasks within the Project, the External Advisory Board Member shall not, without the Project Partners' prior written consent, copy or reproduce any document provided to the External Advisory Board Member containing in whole or in part Sensitive Information and any party receiving any such document shall return or destroy the same and any copies, extracts or other reproductions regarding Sensitive Information, thereof on the Project Partners' request but the latest on the date of termination of this Undertaking.

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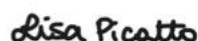
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Lisa Picatto,

JPI Oceans Communication Officer,

lisa.picatto@jpi-oceans.eu



Signed on behalf of the External Advisory Board Member



Bourne, MA USA
2025-11-24

To: Dr. Viviana Piermattei
CS-MACH1 Coordinator
Global Coastal Ocean Division
Euro-Mediterranean Center on Climate Change

Subject: Acceptance to Join the External Advisory Board of the CS-MACH1 Project

Dear Viviana,

I am writing to enthusiastically accept your invitation to join the External Advisory Board (EAB) for the CS MACH1 project—MARine Citizen Science data Horizon. This vital initiative is funded under the HORIZON-MISS-2024-OCEAN-01-04 call: Science for Community – Building the marine Citizen Science data network of the future to valorise data coming from the ocean and increase engagement.

It is a privilege to contribute to this ambitious project, which represents a crucial step toward overcoming existing citizen science empowerment barriers, specifically regarding the accessibility, recognition, trust, and sharing of clustered and localized data. I strongly support the establishment and coordination of a pan-European Marine Citizen Science data network to achieve these goals.

I am particularly interested in supporting the consortium's efforts to enable large-scale citizen observations. My focus will be on ensuring that data generated by citizens and low-cost sensor initiatives can provide the wider community with trustable data through seamless integration into existing data management platforms.

As an EAB member, representing Open Science Computing, LLC, I understand my role involves participating in relevant project meetings to analyze the quality and innovation potential of the CS MACH1 outcomes, reviewing the scientific progress throughout the project lifecycle, and advising on necessary improvements and adjustments. I am committed to offering constructive input to help monitor the Key Performance Indicators (KPIs) and ensure the project achieves its core objectives and delivers meaningful results.

Finally, as an EAB member, I acknowledge and confirm my commitment to the Non-Disclosure Agreement (NDA), agreed under Section 6 of the Consortium Agreement, which is attached to this letter. I understand that I am bound not to discuss or disclose any non-public information related to the project (whether strategic, commercial, technical, financial, or otherwise).

Thank you once again for this opportunity. I look forward to our collaboration with the consortium and the other members of the EAB.

Sincerely,



Richard Signell, PhD
Physical Oceanographer, Data Scientist and Founder, Open Science Computing, LLC
(formerly employed at USGS)
rich@opensciencecomputing.com | +1 774-392-1095

NDA for External Expert Advisory Board agreed under Section 6

Of

Richard Signell, Open Science Computing LLC, Bourne, MA, USA

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Physical Oceanographer, Data Scientist and Founder, Open Science Computing, LLC
(formerly employed at USGS)
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LETTER OF ACCEPTANCE

Dr. Toste Tanhua
Senior Scientist

Phone +49 431 600-4219
ttanhua@geomar.de

November 3, 2025

+

To: Dr. Viviana Piermattei
CS-MACH1 Coordinator
Global Coastal Ocean Division
Euro-Mediterranean Center on Climate Change,

+

Dear Viviana,

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Foundation under Public Law
MinDir Volker Rieke, *Chairman of the Board of Governors*
Prof. Dr. Katja Matthes, *Director* | Frank Spiekemann, *Administrative Director*

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Ocean Research Kiel

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Sales Tax Code DE281295378

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RESEARCH FOR GRAND CHALLENGES



adjustments. I am committed to offering constructive input to help monitoring the KPIs and ensure the project achieves its objectives and deliver meaningful outcomes.

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Sincerely,



Toste Tanhua, senior scientist at GEOMAR



NDA for External Expert Advisory Board agreed under Section 6

Of

**Toste Tanhua, GEOMAR Hemholtz Center for Ocean Research,
Wischhofstraße 1-3, D-24148 Kiel, Germany**

- hereinafter referred to as “the External Advisory Board Member”

towards

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14. **IEEE FRANCE SECTION (IEEE)**, with legal address in c/o SEE 17 rue de l'Amiral Hamelin, Paris Cedex 16 75116, France,

hereinafter, jointly or individually, referred to as “Parties” or “Party”

Whereas:

A. The Parties of the Project are carrying out the Project CS-MACH1 (Horizon Europe Grant Agreement No 101214613)

- hereinafter referred to as “Project” –

And

B. The External Advisory Board Member has been recruited to act as a member of the External Advisory Board established for the Project according to the EU Grant Agreement and for a period of 24 months, starting 30/11/2025

and

C. In the course of the External Advisory Board Member's work within the Project, the Parties may wish to disclose technical and/or commercial information of a confidential nature to the External Advisory Board Member, and wish to ensure that the same remain confidential. This Undertaking only covers exchange of information between one or more Project Partners on the one side and the External Advisory Board Member on the other. Exchange of information between Project Partners alone shall remain regulated by the Consortium Agreement.

Now, therefore, the External Advisory Board Member shall undertake the following:

1) For the purposes of this Undertaking « Sensitive Information» shall mean such technical and/or commercial information, including but not limited to any documents, drawings, sketches or designs, materials or samples (including software) disclosed by the Project Partners to the External Advisory Board Member, which has been explicitly marked as “Sensitive” at the time of disclosure, or when disclosed orally has been identified as confidential at the time of disclosure and has been confirmed and designated in writing within 15 calendar days from oral disclosure at the latest as Sensitive information.

2) The External Advisory Board Member undertakes to treat as confidential, as it does for its own proprietary information of like importance, but at least with a reasonable degree of care, all and any Sensitive Information and agree not to disclose the same to any third party except with the Project Partners' prior written consent and to use Sensitive Information only for the purpose of fulfilling the External Advisory Board Member's tasks. The External Advisory Board member shall take all necessary and appropriate precautions to prevent the unauthorized disclosure or access to Sensitive Information to third parties.

3) The restrictions on the use and disclosure of Sensitive Information shall not apply to any information which is:

- (a) proven to have been known to or developed by the External Advisory Board Member prior to the time of its receipt pursuant to this Undertaking; or
- (b) already in the public domain at the time of disclosure to the External Advisory Board Member or thereafter enters the public domain without breach of the terms of this Undertaking; or
- (c) lawfully acquired by the External Advisory Board Member from an independent source having a bona fide right to disclose the same and/or that does not have a nondisclosure obligation with respect to it; or
- (d) independently developed by the External Advisory Board Member who has not had access to any of the Project Partners' Sensitive Information.

4) Unless it is necessary for the fulfilment of the External Advisory Board Member's tasks within the Project, the External Advisory Board Member shall not, without the Project Partners' prior written consent, copy or reproduce any document provided to the External Advisory Board Member containing in whole or in part Sensitive Information and any party receiving any such document shall return or destroy the same and any copies, extracts or other reproductions regarding Sensitive Information, thereof on the Project Partners' request but the latest on the date of termination of this Undertaking.

5) All Sensitive Information supplied pursuant to this Undertaking shall remain the property of the Project Partner supplying it and no rights, including but not limited to the right to apply for industrial property rights, are granted to the External Advisory Board Member.

6) All Sensitive information is provided "as is". No warranty or representation of any kind is made, given or implied as to the sufficiency or fitness for purpose nor as to the absence of any infringement of any proprietary rights of third parties.

Therefore, the External Advisory Board Member shall in all cases be entirely and solely liable for the use to which it puts such information and materials, and no Project Partner granting access rights shall be liable in

case of infringement of proprietary rights of a third party resulting from any other Party (or its Affiliated Entities) exercising its access rights.

7) Any sample or material which may be supplied by any of the Project Partners to the External Advisory Board Member shall be treated as confidential according to section 2 to 5 of this Undertaking and shall be used only for the purposes of fulfilling the External Advisory Board Member's tasks.

The External Advisory Board Member shall not analyze, decompile or reverse-engineer the sample or software to determine the identity and/or properties of components used to prepare the sample or software. Any sample or software shall be returned to the Project Partners at the Project Partners' request, but the latest until termination of this Undertaking.

8) This Undertaking shall come into force on the date of the last signature with retroactive effect as of the date mentioned under B above, and shall thereafter continue until <end of project>. The obligation of confidentiality hereunder shall continue in force for 5 years from the end of the Project.

9) Amendments or additions to this Undertaking must be made in writing.

10) This Undertaking is subject to resolution in accordance with the provisions of Settlement of disputes in Section 11.8 of the Consortium Agreement: The Parties shall endeavour to settle their disputes amicably. All disputes arising out of or in connection with this Consortium Agreement, which cannot be solved amicably, shall be finally settled by the courts of Brussels.

11) If any provision of this Undertaking is determined to be illegal or in conflict with the applicable law, the validity of the remaining provisions shall not be affected. The ineffective provision shall be replaced by an effective provision which is economically equivalent. The same shall apply in case of a gap.



Toste Tanhua, senior scientist at GEOMAR

Signed on behalf of the External Advisory Board Member



LETTER OF ACCEPTANCE

California, United States, Nov 18, 2025

To: Dr. Viviana Piermattei

CS-MACH1 Coordinator

Global Coastal Ocean Division

Euro-Mediterranean Center on Climate Change

Subject: Acceptance to Join the External Advisory Board of the CS-MACH1 Project

Dear Viviana,

I am writing to formally accept your invitation to join the External Advisory Board (EAB) of “CS MACH1 -Marine Citizen Science data Horizon” funded under the **HORIZON-MISS-2024-OCEAN-01-04** call: **Science for Community – Building the marine Citizen Science data network of the future to valorise data coming from the ocean and increase engagement.**

It is a privilege to contribute to this ambitious initiative, which sets an important step towards the overcoming of existing citizen science empowerment barriers, such as the accessibility, recognition, trust and sharing, of clustered and localised data, through the establishment and coordination of a pan-European Marine Citizen Science data network.

I am particularly interested in supporting the consortium’s efforts in this vital advancement to enable the efforts of large-scale observations from citizens and initiatives, equipped with low-cost sensors, to provide the wider community trustable data through integration in existing data management platforms.

As a member of the EAB, representing our Institution: Synchro, I understand that my role will include participating to relevant project meetings to analyse the quality and the innovation potential of the CS MACH1 outcomes, review the scientific progress during the project life, and advice on improvements and adjustments. I am committed to offering constructive input to help monitoring the KPIs and ensure the project achieves its objectives and deliver meaningful outcomes.

As member of the EAB, I am bound not to discuss or disclose any information related to the project (strategic, commercial, technical, financial or otherwise) that is not rated as public, in accordance with the Non-Disclosure Agreement (NDA) for EAB, agreed under Section 6 of the Consortium Agreement, attached to this letter.

Thank you once again for this opportunity. I look forward collaborating with the consortium and the other members of the EAB.

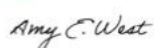
Sincerely,

Amy West, MSc

Specialist in Ocean Technology, Monterey Bay Aquarium Research Institute

Synchro Program Manager

amy@mbari.org | +831 775-1965

Signature 

NDA for External Expert Advisory Board agreed under Section 6

Of

**Amy West, Monterey Bay Aquarium Research Institute, 7700 Sandholdt Road,
Moss Landing, CA, 95039, United States**

- hereinafter referred to as “the External Advisory Board Member”

towards

the Parties of the Consortium Agreement of the Project called CS_MACH1 (Horizon
Europe N° 101214613):

1. **Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici (FONDAZIONE CMCC)**, with legal address in via Marco Biagi 5, 73100 Lecce, Italy, the Coordinator
2. **SVERIGES METEOROLOGISKA OCH HYDROLOGISKA INSTITUT (SMHI)**, with legal address in Folkborgsv Agen 1, Norrkoeping 601 76, Sweden,
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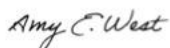
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.....
Amy West, MSc

Specialist in Ocean Technology, Monterey Bay Aquarium Research Institute

Synchro Program Manager

amy@mbari.org | +831 775-1965



Signed on behalf of the External Advisory Board Member