

# ASSEMBLE



ASSOCIATION OF EUROPEAN MARINE BIOLOGICAL LABORATORIES EXPANDED

**Acronym: ASSEMBLE Plus**

***Title: Association of European Marine Biological Laboratories Expanded***

**Grant Agreement: 730984**

## **Deliverable D19.1**

### **UGOT TA assessment report**

**September 2022**

**Lead parties for Deliverable: University of Gothenburg**

**Due date of deliverable: M60**

**Actual submission date: M60**

#### **All rights reserved**

This document may not be copied, reproduced or modified in whole or in part for any purpose without the written permission from the ASSEMBLE Plus Consortium. In addition to such written permission to copy, reproduce or modify this document in whole or part, an acknowledgement of the authors of the document and all applicable portions of the copyright must be clearly referenced.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 730984. This output reflects the views only of the author(s), and the European Union cannot be held responsible for any use which may be made of the information contained therein.

## GENERAL DATA

Acronym: **ASSEMBLE Plus**

Contract N°: **730984**

Start Date: **1<sup>st</sup> October 2017**

Duration: **60 months**

Deliverable number	D19.1
Deliverable title	UGOT TA Assessment report
Submission due date	M60
Actual submission date	M60
WP number & title	WP12 - TA1 Transnational access to UGOT
WP Lead Beneficiary	UGOT
Participants (names & institutions)	Niklas Andersson (University of Gothenburg)

### Dissemination Type

Report	<input checked="" type="checkbox"/>
Websites, patent filling, etc.	<input type="checkbox"/>
Ethics	<input type="checkbox"/>
Open Research Data Pilot (ORDP)	<input type="checkbox"/>
Demonstrator	<input type="checkbox"/>
Other	<input type="checkbox"/>

### Dissemination Level

Public	<input checked="" type="checkbox"/>
Confidential, only for members of the consortium (including the Commission Services)	<input type="checkbox"/>



## Document properties

<b>Author(s)</b>	Niklas Andersson, University of Gotheburg
<b>Editor(s)</b>	Davide Di Cioccio, EMBRC-ERIC
<b>Version</b>	

## Abstract

**This deliverable describes the outcomes of the trans-national access programme (TNA) offered at University of Gotheburg, in terms of: installations available, applications received and user's projects performed (through on-site and / or remote access), users' profile and other stats (country of origin, career profile, type of organization, satisfaction of the services used).**



## Table of Contents

1. Introduction.....	5
2. Objective.....	5
3. Outcomes of the Transnational Access programme .....	5
3.1 Overview of the access provider(s) .....	5
3.2 Installations offered .....	6
3.2.1 Kristineberg (KMRS).....	6
3.2.2 Tjärnö (TML) .....	6
4. Applications received .....	6
4.1. Origin country of applicants .....	6
4.2. Applicants profile .....	6
4.2.1. Home institution type .....	6
4.2.2. Career status .....	6
5. User hosted and their stats .....	6
5.1. Projects completed.....	6
5.2. Installations used.....	6
5.3. User satisfaction .....	7
5.4. Projects not completed or cancelled.....	7
6. Use of resources .....	7
7. Conclusion .....	7
8. Appendices .....	8
8.1. List of user-projects completed at UGOT .....	8



## 1. Introduction

Transnational Access in ASSEMBLE Plus is provided to a total of 36 marine stations in 15 countries. In the whole consortium, the stations provide access to a high diversity of marine environments; from the high Arctic (IOPAN) and Antarctic (UKRI-BAS) to the tropics (IUI and NIOZ-CNSI) and the mid-Atlantic ridge (CCMAR and IMAR). Within mainland Europe, access is provided to the Mediterranean, the Atlantic and the Baltic seas. Habitats comprise estuaries (e.g. SZN, ISMAR, CCMAR, AWI, IOPAN, UG), mega-tidal seas (SBR), cold-water coral reefs (KMRS, NUIG, SAMS), brackish seas and sea ice communities (IOPAN, TSZ, ARI, HBS), near-shore deep sea (HCMR, IMEV, NUIG, UGOT, SAMS) and volcanic seeps (high CO<sub>2</sub> – low pH; HCMR, SZN, IMAR). The TA-providing stations (access providers) have modern research laboratories and a wide array of specialized research facilities to support internal and external users. Several of these also have technological backup of nearby university institutions.

This deliverable describes the outcomes of the trans-national access programme (TNA) offered at UGOT, in terms of: installations available, applications received and user's projects performed (through on-site and / or remote access), users' profile and their stats (country of origin, career profile, type of organization, satisfaction of the services used).

## 2. Objective

This deliverable intends to show the outcomes of the transnational access programme executed at UGOT, hence contributing to the ASSEMBLE Plus objectives:

- Enhance transnational access to a coordinated set of state-of-the-art European infrastructures for marine biology and ecology;
- Improve service provision by these infrastructures in line with their areas of excellence in marine biology and ecology, with emphasis on developing novel key enabling technologies and data solutions;
- Strengthen complementarity and interoperability within the consortium and with related infrastructures;
- Lay the logistical and strategic foundations to expand the coverage of the European Marine Biological Resource Centre (EMBRC) in both its scope and its geographical distribution and to consolidate its long-term sustainability.

## 3. Outcomes of the Transnational Access programme

### 3.1 Overview of the access provider(s)

The two marine stations are infrastructures under the Sven Lovén Centre for Marine Sciences, which is owned by the University of Gothenburg. Access to Ecosystems: Sweden's only true fjord Gullmarn is easily accessible from Kristineberg and the marine national park Kosterhavet is very close to Tjärnö. Research focus: climate change, ocean acidification, microplastics, aquaculture, ecosystem

5



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 730984. This output reflects the views only of the author(s), and the European Union cannot be held responsible for any use which may be made of the information contained therein.

functioning, blue biotechnology, maritime technologies, marine ecology, ecotoxicology, zoology, chemistry, and large-scale ecosystem research. SLC provides access to the west coast of Sweden from cold-water coral reefs to eel grass meadows. Access to a unique and high level of organismal diversity at the Lovén Centre: many current and emerging marine model organisms (e.g., *Ciona intestinalis*, *Balanus improvisus*, *Skeletonema marinoi* and *Myxine glutinosa*).

### 3.2 Installations offered

UGOT offered access to two marine stations with a specific set of installations:

#### 3.2.1 Kristineberg (KMRS)

- Laboratories
- Smaller vessels

#### 3.2.2 Tjärnö (TML)

- Laboratories
- Smaller vessels
- ROV

## 4. Applications received

### 4.1. Origin country of applicants

UGOT has received a total of 82 applications in the nine calls of TNA. Among these, 65 applicants were based in European countries while 17 applicants came from other non-European countries.

### 4.2. Applicants profile

#### 4.2.1. Home institution type

Applicants were mostly based in academic institutes (72%), followed by research institutes (25,6%).

#### 4.2.2. Career status

The most recurring career profile of the applicant was postdoc (41,5%), followed by senior scientist (34,1%).

## 5. User hosted and their stats

### 5.1. Projects completed

Overall, UGOT has hosted 53 projects for a total of 82 users. The list of projects completed at UGOT is available in "[Appendix 1 – List of user-projects completed](#)" further below.

### 5.2. Installations used

The installations used were in ascending order: laboratories, smaller vessels and ROV



### 5.3. *User satisfaction*

Overall, users have positively evaluated the services offered (Very good: 43.8%; Good: 37.5%).

### 5.4. *Projects not completed or cancelled*

Many projects were postponed due to the pandemic. Some of them did not have the time to finish their visits before the project ended. One project cancelled due to too complicated user access contracts.

## 6. Use of resources

<b>Beneficiary / Linked Third Party</b>	<b>PM</b>	<b>short name of the installation(s)</b>	<b>explanations of tasks</b>
University of Gothenburg	12	Labs	Preparing for visits
University of Gothenburg	12	All	Preparing paperwork

## 7. Conclusion

- Access after pandemic caused a lot of problems and extra administration, new routines was set in place.
- Many new users came to the infrastructure thanks to the ASSEMBLE+ funding. New users with new scientific questions make the station adapt and stay up to date.



## 8. Appendices

### 8.1. List of user-projects completed at UGOT

Access provider	Project title	Project acronym	Application number	Project leader	Other team members	Services used	Home institute of the project leader	Home institute country of the project leader
KMRS	Amphiura filiformis (Echinodermata) luminescence: origins and dietary induction of luminous capabilities	Afilum	231	Jérôme Mallefet	Constance Coubris	Dry laboratories; Coastal research vessels	Université catholique de Louvain	BE
KMRS	Analysing Gene Regulatory Network Evolution Via Hybridisation Between Species of Strongylocentrotid Sea Urchins	urchinHybridGRN	49	David Garfield		Dry laboratories	IRI Life Sciences/Humboldt Universität zu Berlin	DE
KMRS	Carbon and nitrogen flux and microhabitat distribution of benthic foraminifera at the Gullmar Fjord	CARNIFOR	10869	Julia Wukovits		Coastal research vessels; Sampling equipment; Coastal research vessels; Dry laboratories; Wet laboratories; Scientific diving; Aquaria and tanks; In-house catering;	University of Vienna	AT
KMRS	Co-restoration of foundation species to increase restoration success and revitalise coastal biodiversity	CO-RESTORE	356	Karine Gagnon		Coastal research vessels; Dry laboratories; Wet laboratories; Scientific diving; Aquaria and tanks; In-house catering;	Åbo Akademi University	FI
KMRS	Collection of gravid Priapulid caudatus	PriapGerm	230	Andreas Hejnol	Naveen Wijesena	Coastal research vessels; Dry laboratories	University of Bergen	NO
KMRS	Comparative genomics and evolutionary history of cnidarian parasites	CNIDPar	325	Astrid Holzer	Inga Martinek	Coastal research vessels; Wet laboratories; Dry laboratories	Institute of Parasitology, Biology Centre of the Czech	CZ





							Academy of Sciences	
KMRS	Development of a broad-range DNA-based method for the identification of marine species in food products	Idfoodplex	233	Filipe Pereira	Filipa Moreira	Dry laboratories	University of Porto	PT
KMRS	Drivers affecting on Blue Carbon stocks in eelgrass ecosystems: Coastal erosion and anthropogenic impacts	BlueCgrasses	10829	Luis Gonzalo Egea Tinoco			University of Cadiz	ES
KMRS	Early cell fate specification of the nemertodermatid <i>Nemertoderma westbladi</i> (Xenacoelomorpha)	Nemertodermatida	2	Andreas Hejnl		Dry laboratories	University of Bergen	NO
KMRS	Eelgrass implication on carbon remineralisation: insights from DOC refractoriness by natural bacterial assemblages	SweDoc	11286	Rocío Jiménez-Ramos	Luis Gonzalo Egea Tinoco		Mediterranean Institute for Advanced Studies (UIB-CSIC)	ES
KMRS	Effects of predator presence on diel feeding rhythms of marine copepods (nauplii and adults)	EPCDR	8226	Manuel Olivares		Climate controlled rooms; Coastal research vessels; Dry laboratories; Imaging; Wet laboratories;	Consejo Superior de Investigaciones Cientificas CSIC	ES
KMRS	Embryonic development from a single-cell perspective	SingleCell-Priapulid	11997	Andreas Hejnl	Carmen Andrikou, Andrea Orús, Petra Kovacikova	Climate controlled rooms; Coastal research vessels; Marine model organisms; Wet laboratories;	University of Bergen	NO
KMRS	Evolution of boring bryozoans	boringBryo	237	Thomas Schwaha		Dry laboratories; Coastal	University of Vienna	AT



KMRS	Fate of microplastics: The role of seagrass meadows as particle sinks	SEASINK	336	Carmen B de los Santos		research vessels; Coastal research vessels; Dry laboratories; Wet laboratories; Scientific diving; Aquaria and tanks; In-house catering;	CCMAR	PT
KMRS	Fish thermal tolerance and acclimation potential under increasing temperature	FTTA	10856	Ana Filipa Lopes		Data analysis tools and software; Sampling equipment;	Mare-ISPA	PT
KMRS	Generating genomic resources for Xenoturbella bocki	XENOMICS	22	Pedro Martinez	Simon Sprecher, Esther Odekunle	Dry laboratories	Universitat de Barcelona	ES
KMRS	Hematopoiesis in priapulids	EVOBLOOD	9533	Carmen Andriko	Petra Kovacikova, Tsai-Ming Lu, Andrea Orús	Coastal research vessels	University of Bergen	NO
KMRS	Impacts of future global changes on a marine temperate fish species.	Global Changes Impacts on Fish	59	Ana Filipa Lopes		Dry laboratories	MARE-Isipa	PT
KMRS	Interactive effects of ocean acidification and Phytophthora-infection on eelgrass seed germination and seedling development	InfecSeeOA	269	Traci Cox	Laura Govers	Dry laboratories	Dauphin Island Sea Lab	US
KMRS	Large-scale seagrass restoration and biodiversity	RESTORE	11007	Karine Gagnon			Åbo Akademi University	FI
KMRS	Maritime Particles: Comparison of microplastics and nanoparticles in seawater between the Västra Götaland marine waters and the Aegean Sea	MariPart	393	Andreas Gondikas	Theodora Kalampaliki	Dry laboratories; Imaging;	University of Athens, Department of Geology and Geoenvironment	GR



KMRS	Maritime Particles: microplastics and nanoparticles in seawater from the Skagerrak and Aegean Seas	MarineParticles	8490	Andreas Gondikas	Theodora Kalampaliki, Ana Dura	Dry laboratories;	National and Kapodistrian University of Athens	GR
KMRS	Moulting in basal ecdysozoan animals: study of Priapulid and Halicryptus from Sweden	ECDY	363	Jean Vannier		Coastal research vessels; Marine model organisms; Aquaria and tanks; Wet laboratories; Imaging; In-house catering;	Université Claude Bernard Lyon 1	FR
KMRS	Non-lethal effects of predators on the diel activity rhythms of marine zooplankton	Diel Rhythms Zooplankton	34	Manuel Olivares Requena		Dry laboratories; Coastal research vessels	Institut of Marine Sciences (ICM-CSIC)	ES
KMRS	Regeneration at single cell resolution	CellReg	12013	Paola Oliveri	Emanuele Astoricchio	Climate controlled rooms; Coastal research vessels; Marine model organisms; Wet laboratories;	University College London	GB
KMRS	Role of phylogeny in shaping morphological traits with emphasis on gastric ossicles of decapod	CRP- 2020	10845	Prema Mani			Annamalai University	IN
KMRS	Sampling, assembly and annotation of a bryozoan reference genome from Scandinavian coastal waters.	REFERENCE	50	Russell Orr		Dry laboratories; Coastal research vessels	University of Oslo	NO
KMRS	Settlements as contributors of microplastic to the Arctic marine environment.	Settlements' plastic	44	France Collard		Dry laboratories	Norwegian Polar Institute	NO
KMRS	Structure and rates of energy fluxes in the	PLANCFL UCS	9	Danilo Calliari	Laura Rodriguez	Dry laboratories	Universidad de la	UY



KMRS	plankton assemblages of the Gullmar fjord The role of the microbiome of seeds and sediments in eelgrass meadow restoration	SeedMiBio	11271	Anne Brauer	Mia Bengtsson, Kassandra Radtke		Republi ca Universi ty of Greifsw ald	DE
KMRS	Transgenerational effects of global change on marine invertebrates	GCBInvert s	279	Jeff Clement s	Frederik Jutfelt		Norwegi an Universi ty of Science and Technol ogy Åbo Akadem i Universi ty	NO
KMRS	Vitellogenin expression as a molecular signature of resource distribution in sand goby	VISIREDI	13401	Johann a Yliporti mo				FI
TML	Adaptation of the seagrass circadian clock to latitudes	CircaGrass	347	Emanue la Dattolo	Miriam Ruocco	Coastal research vessels; Wet laboratories; Molecular biology and omics Aquaria and tanks; Climate controlled rooms; Coastal research vessels; Dry laboratories; Submersible s; Wet laboratories;	SZN	IT
TML	Amplifying the sound of Lophelia reefs – using passive acoustic recordings to assess and monitor the health of cold-water coral reefs	AmpLOPH ELIA	8975	Laurenc e De Clippele	Johanne Vad, Denise Risch, Tomas Lundäl v		Universi ty of Edinbur gh	GB
TML	Cold-water coral larvae in a changing ocean	LARVAE	12998	Maria Rakka			Universi ty of the Azores	PT
TML	Microbial Dispersal from Sea to Air and Snow	MIDSEAS	9845	Janina Rahlff	Julia Nuy	Wet laboratories;	Universi ty Duisbur g-Essen	DE
TML	Role of phylogeny in shaping morphological traits with emphasis on gastric ossciles of decapod	CRP- 2020	10845	Prema Mani		Climate controlled rooms;	Annama lai Universi ty	IN

