

**Personal information**

First name	Abed El Rahman
Surname	Hassoun
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Nationality	Lebanese
Date of birth	01/01/1988
Gender	Male

Current position(s)

Researcher (since February 2022)
GEOMAR Helmholtz Centre for Ocean Research Kiel
Wichhofstrasse 1-3
D-24148 Kiel, Germany
<https://www.geomar.de/en/ahassoun>

Research Associate (since April 2015)
National Council for Scientific Research (CNRS-L),
National Centre for Marine Sciences (NCMS),
Beirut, Lebanon
www.cnrs.edu.lb

Founder and chair of the Ocean Acidification Mediterranean Hub (OA Med-Hub):
http://www.goa-on.org/regional_hubs/mediterranean/about/introduction.php

Observations Coordination Group Vice-Chair, Standards & Best Practices
<https://goosocean.org/who-we-are/observations-coordination-group/observations-coordination-group-team/>

Previous position(s)

*June-August 2022: Scientific writer for the [Ocean Frontier Institute](http://oceanfrontierinstitute.org)/Dalhousie University, Canada to help in writing the scientific strategy of the project “[Transforming Climate Action](#)” that was awarded **154M\$** from Canada First Research Excellence Fund (CFREF) and partners’ commitments. Contact person: Anya Waite, Anya.Waite@dal.ca

*September 2016-November 2022: Lecturer at the Lebanese University (since September 2016): www.ul.edu.lb
-Course “Methodologies of Analysis in Biology” in the Faculty of Public Health;
-Course “Ecology” in the Faculty of Sciences.

*October 2021-January 2022: Consultant for the [OA-ICC/IAEA](#), Monaco, to report on the [ocean acidification status and trends in the Mediterranean Sea](#). Contact person: Ashley Bantelman, A.Bantelman@iaea.org

Curriculum Vitae

Abed El Rahman HASSOUN

*September-December 2021: Consultant for the Ocean Frontier Institute, Canada to help in developing and designing a North Atlantic Ocean Carbon Observatory ([NACO](#)) in collaboration with GOOS. Contact person: Anya Waite, Anya.Waite@dal.ca

Personal pages

[Google Scholar](#) ; [ResearchGate](#) ; [LinkedIn](#) ; [Academia](#) ; [ORCID iD](#)

Degrees

Date 2014

Ph.D. in Oceanology

Defended on the 29th of September 2014 in co-direction between:

- The University of Perpignan Via Domitia, IMAGES laboratory, 52 avenue Paul Alduy, 66860 Perpignan cedex, France,
- The National Council for Scientific Research in Lebanon, National Centre for Marine Sciences, B.P. 534, Batroun, Lebanon.

Thesis entitled: *Analysis and Modeling of the Acidification in the Mediterranean Sea*

Thesis online:

<https://tel.archives-ouvertes.fr/tel-01083406v1>

Abstract & résumé of the thesis in:

- <http://www.theses.fr/2014PERP1187>
- <http://www.sudoc.abes.fr/DB=2.1/SRCH?IKT=12&TRM=181507005>

Date 2010

Title of qualification awarded **Master in “Management and Conservation of Natural Resources”/Biodiversity (M2)**
-Title of Master thesis: the effects of the organic pollution on the phytoplankton populations in the middle part of the Lebanese coast, during the spring period.
-Lebanese University / Faculty of sciences.

Date 2009

Title of qualification awarded **Master in Earth and Life Sciences/Biodiversity and Environment (M1)**
-Lebanese University / Faculty of sciences

Date 2005-2008

Title of qualification awarded **Bachelor of Earth and Life Sciences/Biology**
-Lebanese University / Faculty of sciences

Projects

2026-Present	CINEA tender (CINEA/2025/OP/0002): Enhancing coordination and synergies in the field of ocean observation in the EU Co-responsible for WP2: Use cases on approvals of plans for Ocean Observation BioGeoSea Leading WP1 on Advancing biogeochemical Essential Ocean Variables (EOVs) and indicators ObsSea4Clim
2025-Present	Responsible for Milestones 15 & 16: planning and updating on the Rolling Review of Requirements for the physical EOVs
2024-2025	CINEA tender (CINEA/2023/OP/0015): Standards and Best Practices in Ocean Observation
2023, 2025 & 2026	Partner in WP1: Literature/Assets Collection and analyses, and system level requirements Sailing for Oxygen Responsible of the Baltic Sea data quality control
2023-2024	i-COOP Project “ ROADSTER ” for measuring Green House Gases in the Mediterranean Sea Co-responsible of the sampling and data analysis in Lebanon, Eastern Mediterranean Sea.

Curriculum Vitae

Abed El Rahman HASSOUN

2022-2023	<u>EuroSea</u> Responsible of the Task 1.5 in WP1 on assessing the gaps in the European Ocean Observing and Forecasting System to give actionable recommendations
2022-2023	CINEA tender <u>"All Ocean Observations"</u> (CINEA/EMFAF/2021/3.4.9/SI2.876379): Study for Reporting Obligations for Ocean Observation
2021-present	Co-responsible for WP2: Standards for Observations NANO Global Project (NANO-DOAP): A global study of Deoxygenation, Ocean Acidification and Productivity at selected sites Co-PI of the Lebanese time-series sites
2019	IMAP (Integrated Monitoring and Assessment Programme) Responsible of the Ecological Objective 5 (Eutrophication) monitoring
2010-present	Monthly monitoring of the entire Lebanese coast Sampling and data analysis
2016-present	First survey of the carbonate system in the Lebanese seawater Chief scientist
2018-2022	Evaluation of the Lebanese Marine Environment: A multidisciplinary study (ELME) Biogeochemical scientist
2019-2023	IAEA Coordinated Research Project K41018 , entitled ‘Evaluating the Impact of Ocean Acidification on Seafood – a Global Approach’ Chief scientist
2020-2023	The LEbanese Submarine CAnyon System connecting the shelf with the deep sea: physico-chemical-biological characterisation (LESCAS) Chief scientist in Lebanon
2018	The “ACCOBAMS Survey Initiative” (ASI) Observer scientist
2014-2015	M₃-HABs (Risk Monitoring, Modelling and Mitigation of benthic Harmful Algal Blooms along Mediterranean coasts) Sampling, identification and counting on microscope
2013	Mediterranean Sea Acidification in a changing climate – <u>MedSeA</u> project Sampling, data analysis and data treatment of the biogeochemical data
2010-2012	Observation and monitoring of cetaceans in Lebanon/ACCOBAMS Observer scientist

Supervision of

Masters

2021	“Primary production in the Levantine Sub-basin-Mediterranean Sea” for Mr. Hasan Khalifeh, Faculty of Sciences, Biology Department, Lebanese University, Hadath, Lebanon.
2020	“The quantity and quality of phytoplankton populations in the Lebanese seawater in the context of climate change” for Mr. Salim Kabbara, Faculty of Public Health, Lebanese University, Tripoli, Lebanon.
	“Est-ce qu'il y a des effets du changement climatique sur la production primaire dans la mer libanaise ?” for Mr. Helios Yasmine, Faculty of Sciences, Chemistry Department, Lebanese University, Fanar, Lebanon.
2019	“Estimation du CO ₂ anthropique dans les eaux libanaises” for Mr. Mohamad Al Kheir, Faculty of Public Health, Lebanese University, Tripoli, Lebanon.
	“Estimation du flux air-mer en CO ₂ dans les eaux libanaises” for Ms. Mariame Tannous, Faculty of Sciences, Chemistry Department, Lebanese University, Fanar, Lebanon.

2017 "The first survey of the carbonate system in the Lebanese seawater" for Ms. Najlaa Raad, Faculty of Sciences, Université de Saint-Joseph, Beirut, Lebanon.

2016 "La qualité de l'eau côtière à Tripoli" for Ms. Gloria Saba, Faculty of Public Health, Lebanese University, Tripoli, Lebanon.

Ph.D.

2019-2024

"Evolution and Adaptation of Coccolithophores to Recent Environmental Changes in the Mediterranean Sea" for Mr. Majd Habib, between the National Council for Scientific Research in Lebanon-National Center for Marine Sciences (Lebanon) and CNRS-CEREGE- Université Aix Marseille (France): <https://www.cerege.fr/fr/climat/theses-climat>

Membership & Committees

1. Founder and chair of the Mediterranean Ocean Acidification Hub (OA Med-Hub) affiliated to GOA-ON: http://goa-on.org/regional_hubs/mediterranean/about/introduction.php
2. Co-champion of the OARS (Ocean Acidification Research for Sustainability) **outcome 6: GOA-ON : OARS**.
3. Member and scientific member in the Global Ocean Acidification Observing Network (GOA-ON) Executive Council: http://goa-on.org/about/executive_council.php
4. Member of the Ocean Acidification Information Exchange (OAIE) steering committee: [Ocean Acidification Information Exchange \(oainfoexchange.org\)](http://oceanacidification.org/).
5. Member of the Pier2Peer Advisory Committee: [Pier2Peer](#)
6. Member of the Gender and Diversity Board of the EuroSea Project: [Gender and Diversity Board – EuroSea](#)
7. Member in the network of Mediterranean Experts on Climate and environmental Change (MedECC): <http://www.medecc.org/>
8. Member in the NF-POGO (Nippon Foundation and Partnership for Observation of the Global Ocean) Alumni Network for Oceans (NANO): <http://www.ocean-partners.org/nano>

Oceanographic Expeditions**2024**

- **MSM129** in the Subpolar North Atlantic Ocean aboard R/V Maria S Merian between 24 May and 06 July 2024. The cruise was composed of two legs: leg 1 from Rostock (Germany) to St. Johns (Canada) and Leg 2 from St. Johns (Canada) to Reykjavik (Iceland). [Expeditionsheft MSM128-MSM129/2 \(uni-hamburg.de\): Short Cruise Report MSM129-1 + Short Cruise Report MSM129/2](#)

- Two cruises aboard R/V Littorina on 05/03/2024 and 04/04/2024 to take samples from the [Boknis Eck Time Series Station](#), Baltic Sea.

2022

- **TalPro 2022** cruise in the Western Mediterranean Sea aboard R/V Belgica between 16 and 26 May 2022. [TalPro2022: the Tyrrhenian Sea & Algero-Provencal component of the Med-SHIP programme – Eurofleets – An alliance of European marine research infrastructure to meet the evolving needs of the research and industrial communities.](#)

2019-2020

- 15 oceanographic cruises for **ELME** (Evaluation of the Lebanese Marine Environment: A multidisciplinary study) and **IMAP** (Integrated Monitoring and Assessment Programme) projects.

2018

- **MSM72** oceanographic cruise conducted in the Mediterranean Sea aboard the R/V Maria S. Merian, between the 2nd of March and the 3rd of April 2018: <https://www.ldf.uni-hamburg.de/merian/wochenberichte/wochenberichte-merian/msm71-msm74/msm72-scr.pdf>. During this cruise, I was one of the "carbonate system" team, involved in the

sampling and measurements of the total alkalinity, total dissolved inorganic carbon, pH, and calcium carbonates.

2016

- **OCEANA Deep-Sea Lebanon expedition**, October 16th-20th 2016. During this expedition, I participated in the identification of deep-sea species, in the CTD data interpretations and in the sediments sampling: <http://eu.oceana.org/en/our-work/expeditions/deep-sea-lebanon-2016/overview>

2013

- The **2013 MedSeA oceanographic cruise** (which is an essential part of the European project “Mediterranean Sea Acidification in a changing climate – MedSeA” (www.medsea-project.eu), within the FP7 Cooperation program) along the Mediterranean Sea, on the research vessel Ángeles Alvariño of the Instituto Español de Oceanografía (IEO), between May 2nd and June 2nd, 2013. During this cruise, I collected samples intended to measure the total alkalinity, total dissolved inorganic carbon, isotopes and other parameters : <http://medseaoceanocruise.wordpress.com/the-team/>

2012-2013

- **CANA expeditions** offshore the Lebanese coast. Multiple cruises were conducted during this period to study the hydrographic and chemical conditions of the Lebanese waters, to collect plankton samples and to monitor marine cetaceans as well.

**Trainings,
Workshops,
Technical
meetings &
talks****2025**

- Invited as an IAEA expert to attend the annual GOA-ON Executive Council meeting, 28-30 January 2025, in the University of Washington, Seattle, USA. [GOA-ON](#).

- Participant and WP4 meeting co-lead in the ObsSea4Clim general assembly, 11-13 March 2025, at IO PAN, Sopot, Poland, [ObsSea4Clim Annual Meeting – ObsSea4Clim](#) and [D6.1 Clustering Event I is published! – ObsSea4Clim](#).

- Invited speaker at the event “Standards and Best Practices in Ocean Observation”, held on 28 May 2025 at the Brussels Office of the Region of Murcia, Belgium. Event recorded here: [Standards and Best Practices in Ocean Observation | CTNAVAL](#).

- Presented my poster entitled “Advancing the European Ocean Observing Community: integrating efforts to address gaps and enhance readiness for essential ocean phenomena” in the One Ocean Science Congress 2025, Nice, France, 3–6 Jun 2025, OOS2025-1331, <https://doi.org/10.5194/oos2025-1331>.

- Co-organizer of the FYORD Summer School "Diving Into Change: Exploring Marine Carbon Storage and Removal to Mitigate Climate Change" that took place from 15 to 19 September in collaboration between GEOMAR, Kiel University (CAU) and Kiel Marine Science (KMS). [FYORD Summer School 2025](#)

- Participation as a WP1 lead in the kick-off meeting of the BioGeoSea project held between 29 September and 01 October 2025 in Brussels, Belgium, at the CSIC Office. [Kick-Off Meeting: Three days of alignment, collaboration and momentum – BioGeoSea](#)

- Witnessing in front of the Standing Senate Committee on Fisheries and Oceans on “Examine and report on ocean carbon sequestration and its use in Canada” on Thursday 30

Curriculum Vitae

Abed El Rahman HASSOUN

October, 2025. Record and minutes: [Meetings #8 - Standing Senate Committee on Fisheries and Oceans \(45th Parliament, 1st Session\)](#).

2024

- Presented the results of the gaps' analysis I have led in EuroSea project, with a focus on both the Baltic and Black Seas during a virtual "workshop on the Baltic Sea glider operations, with a link to the Black Sea", that was held on 29 February 2024 and organized by the Finnish Meteorological Institute: [Baltic Glider Workshop 29.2.2024 \(youtube.com\)](#).

- Invited as an expert to a "Workshop on Optimizing Methodologies for Ocean Acidification Monitoring and Chemical Analyses" to finalize the version 1 of the best practices developed with the working group and to plan for version 2. The event was hosted by the OA-ICC of the IAEA-Monaco in 21-22 March 2024: [Workshop on Optimizing Methodologies for Ocean Acidification Monitoring and Chemical Analyses \(monacoceanweek.org\)](#).

- Participant in the Bridging Spheres Pop-up Campus, a 5-day Helmholtz top event in science communication that brings together the spheres of science, media, public and policymaking. The event was held in 8-12 April 2024 at KIT-Campus Alpin, Garmisch-Partenkirchen, Germany. [Helmholtz Activities - Bridging Spheres Pop-up Campus \(kit.edu\)](#).

2023

- Speaker in the Pakistan International Maritime Expo and Conference ([PIMEC](#)), on "ocean acidification research and its effects" on 12 February 2023.

- Lecturer at the [Technical Meeting](#) on "Ocean Acidification Meta-Analyses using the Ocean Acidification International Coordination Centre Bibliographic Database and other data resources", held virtually in 13-17 February 2023, and organized by the OA-ICC of the IAEA in Monaco.

- Chair of the OA Med-Hub first Steering Committee meeting in Erdemli, Mersin, Türkiye, 18-20 April 2023. The event was organized by METU-IMS, OA Med-Hub and supported by the OA-ICC of the IAEA: [OA Med-Hub on Twitter](#).

- Speaker at the "First Data Buoy Cooperation Panel Mediterranean Training Workshop on Ocean Observations and Data Applications (DBCP-Medi-1)-Part 2", on "Ocean Acidification observations - contributions from the Mediterranean community". The event was held in a hybrid mode in Tunisia, 2-4 May 2023, and organized by National Institute of Meteorology (INM), Ministry of Transport, Tunisia, WMO-IOC Data Buoy Cooperation Panel (DBCP), OceanOPS/WMO, and National Center of Ocean Standards and Metrology (NCOSM), China. [Global Ocean Observing System / \(ioccp.org\)](#).

- Giving lectures to students of the University of the Aegean and to public audience in Lesvos, Mytilini, Greece, 22-26 May 2023. This teaching and awareness activity was part of an ERASMUS+ exchange with the University of Aegean.

- Poster entitled "Ocean Acidification Research in the Mediterranean Sea: Status, Trends and Next Steps" at ASLO, 07 June, 2023, Palma de Mallorca, during the session SS066P Ocean Acidification 2.0 – From Chemistry to Society. [Scientific Sessions List - ASLO](#).

- Panelist in the "[Socio-economic Impacts of Ocean Acidification](#)" session during the Ocean Acidification Week 2023 to talk about "Knowledge gaps about OA in the Mediterranean" in October 2023.

2022

- Panelist in a session entitled "Ocean Diplomacy: How Common Threats to Shared Resources Can Overcome Politics", organized by the Ocean Foundation, on the 18th of

Curriculum Vitae

Abed El Rahman HASSOUN

February 2022 at the American Association for the Advancement of Science (AAAS) meeting, online: [Ocean Diplomacy: How Common Threats to Shared Resources Can Overcome Politics \(confex.com\)](https://confex.com/ocean-diplomacy).

-Presenter in the EuroSea annual meeting that was held in Cadiz, Spain between 9 and 13 May 2022. [EuroSea](https://eurosea.org).

-Main Speaker in the Ocean Acidification Workshop, organized by INIOAS, IIM-CSIC, and the IOC-UNESCO, on 18-18 October 2022. The talk was entitled "Ocean acidification research in the Mediterranean Sea: Status, trends and next steps": [Workshop on Ocean Acidification \(Online\) \(inio.ac.ir\)](https://www.inio.ac.ir/).

-Invited as an OA expert in the "Ocean Acidification Meta-analysis Workshop" held in Monaco 28-30 November 2022, and organized by the OA-ICC of the IAEA in Monaco.

2021

- Main speaker of a webinar presented to Moroccan students from the Master "Conservation of Marine Biodiversity» of the Faculty of Sciences at the Université Abdelmalek Essaadi in Tétouan, Morocco. The webinar, featured on the 15th of April 2021, was entitled « Le changement climatique en Méditerranée: tendances, méthodologies, et études au Liban » : <https://www.youtube.com/watch?v=u2TNGa9Wxvg>

- Organization and participation as a moderator in a webinar on Ocean Acidification in the Mediterranean organized in the framework of the Monaco Ocean Week 2021 and entitled "Future Priorities for Addressing Ocean Acidification in the Mediterranean: from research to policy". The session was held on March 24th 2021 and organized by the IUCN and OA Med-Hub with the collaboration of the Fondation Prince Albert II de Monaco: <https://www.youtube.com/watch?v=YiQ5tBguD3c>

- Participation in a workshop entitled "Ocean Acidification: SDG indicator 14.3.1 methodology – revisited" that was held in 12-13 April 2021 and organized by the IOC-UNESCO.

- Participation as an advisory member in the 'Online Advisory Committee Meeting' held in the 16th of April 2021 to discuss the process for the elaboration of the "Post-2020 Strategic Action Programme for the Conservation of Biodiversity and Sustainable Management of Natural Resources in the Mediterranean Region" (Post-2020 SAP BIO), organized by the UN SPA-RAC: www.spa-rac.org

- Organization and participation in a training for the 'Tyre Coastal Nature Reserve' staff in the framework of the Intermediate Outcome 3 (iOc3) of the "ELME Project: Evaluation of the Lebanese Marine Environment: A multidisciplinary study" on the 16th of March 2021 in Tyre's municipality.

- Speaker during the UN World Oceans Day event entitled "Implementing UN SDG 14.3- Protecting Communities and Livelihoods from a Changing Climate" on the 8th of June 2021 to talk about "Climate Change in the Mediterranean and Actions to Understand and Address Ocean Acidification". The event was organized by the International Alliance to combat Ocean Acidification (OA Alliance) and The Ocean Foundation (TOF): <https://unworldoceansday.org/events/implementing-un-sdg-14-3-protecting-communities-and-livelihoods-from-the-threat-of-a-changing-ocean/>

- Speaker in the Sustainability Research & Innovation Congress (SRI 2021) that was held in 12-15 June, 2021 online and onsite in Brisbane, Australia. I was invited to talk about "Risks on Mediterranean marine resources" during a session entitled "Risks associated with

Curriculum Vitae

Abed El Rahman HASSOUN

environmental change in the Mediterranean Basin", organized by MedECC on the 14th of June 2021:

<https://attend.sri2021.org/meetings/virtual/Mpt8nFHiBAY3YDfRk>

-Co-chair of the session SS84 entitled "Ocean acidification: trends and effects from local to regional scales" that took place on the 25th of June 2021 at the ASLO 2021 Aquatic Sciences Meeting held virtually on June 22-27, 2021: <https://www.aslo.org/2021-virtual-meeting/>

-Organization and participation in the Ocean Acidification Week (#OAWeek2021) that took place on the 14th of September 2021, mainly in the Mediterranean session as a chair of the Ocean Acidification Mediterranean Hub (OA Med-Hub). The event is published on YouTube: [OARS Session: Intro by Ambassador Peter Thomson, UN Secretary General's Special Envoy for the Ocean - YouTube](#)

2020

-Talk entitled "Regional perspective of Ocean Acidification science and observation" during the HLPF side-event "Developing capacity to address ocean acidification for a sustainable ocean future" on the 8th of July 8-9 am (New York Time) as a part of the Communities of Ocean Action within the High Level Political Forum 2020: <https://sustainabledevelopment.un.org/hlpf/2020>

-Organization and participation in the Ocean Acidification Week (#OAWeek2020) that took place between 8 and 10 September 2020, mainly in the Mediterranean session as a chair of the Ocean Acidification Mediterranean Hub (OA Med-Hub). The session is published on YouTube: <https://www.youtube.com/watch?v=9wH7JL1URSO>

- Participation in the plenary consultation on the draft Summary for Policymakers (SPM) of the MedECC report, 22 September 2020 (Marseille and online), **as a Corresponding Lead Author (CLA)** in the chapter 4 'Ecosystems': <https://www.medecc.org/plenary-consultation-on-the-draft-summary-for-policymakers-spm-of-the-medecc-report/>

- Gave a talk about 'climate change effects in the Mediterranean basin' in an international event entitled: "Assessing Climate and Environmental Stresses in the Arab and Mediterranean Regions: Scientific Evidences and Socio-economic Impact", 27 October 2020, organized by the Center for Mediterranean Integration.

- Gave a talk entitled "Seawater monitoring systems and parameters in the context of climate change" during the First national meeting on MSP and Blue Economy held on 6 and 13 November 2020, and organized by UNESCO-IOC:

http://www.mspglobal2030.org/wp-content/uploads/2020/11/MSProadmap_Presentation_Lebanon_20201106.pdf

-Gave a talk entitled "Biogeochemical studies in the context of climate change in Lebanon-Eastern Mediterranean Sea" during the seminar of the group 'Laboratoire des Bio-Indicateurs Actuels et fossiles (LPG-BIAF)', département de Géologie, UMR-CNRS in the Université Angers, on the 11th of December 2020.

2019

-1st MedECC Assessment Report Lead Authors meeting, 4-7 March 2019, in Milan, Italy: <http://www.medecc.org/1st-medecc-assessment-report-mar1-authors-meeting-4-7-march-milan-italy/>

-The 4th Global Ocean Acidification Observing Network (GOA-ON) International Workshop, 14-17 April, 2019 in Hangzhou, China. Plenary Oral Presentation: "First quantification of the carbonate system in the Lebanese Seawater, Levantine Sub-basin,

Curriculum Vitae

Abed El Rahman HASSOUN

Eastern Mediterranean Sea": [http://www.goa-on2019.com/file/\[FINALIZED\]%20Workshop%20Daily%20Program.pdf](http://www.goa-on2019.com/file/[FINALIZED]%20Workshop%20Daily%20Program.pdf)

-Technical Meeting on the Development of Practical Guidelines for Ocean Acidification Measurements and their Associated Uncertainties (EVT1804704), 29-31 May 2019 in the IAEA Environment Laboratories, Monaco: <https://news-oceanacidification-icc.org/2019/06/03/oa-icc-holds-back-to-back-meetings-on-future-activities-and-practical-guidelines-for-ocean-acidification-research/>

- First Research Coordination Meeting on Evaluating the Impacts of Ocean Acidification on Seafood – A Global Approach as a scientific partner, 26-30 August 2019 in Kristineberg Marine Station, Sweden: <https://www.iaea.org/newscenter/news/iaea-supports-new-research-on-the-impacts-of-ocean-acidification-on-seafood>

-“Indian Ocean Regional Ocean Acidification” workshop as an invited expert and representative of the GOA-ON network, 28-29 October 2019 in Stone Town, Zanzibar-Tanzania: <https://www.iaea.org/newscenter/news/supporting-ocean-acidification-initiatives-in-the-western-indian-ocean>

- 2nd MedECC Steering Committee meeting and Coordinating Lead Authors meeting, 11-13 December 2019, in Marseille, France: <https://www.medecc.org/medecc-steering-comitee-meeting-and-coordinating-lead-authors-meeting-11-13-december-2019-marseille/>

2018

-POGO fellowship program for Ship-board Training. During this program I have spent one month (February) at the IEO in A Coruña, Spain at Marta Alvarez's lab. to prepare for the cruise and being familiar with the carbonate system equipment, and one month (May) in GEOMAR in Kiel, Germany at Toste Tanhua's lab. for data post-cruise data processing and data treatment. In March, I participated in the MSM72 cruise conducted in the Mediterranean Sea.

-Lecture about “The power of marine algae in the context of the Blue Growth Initiative” for the participants of the 2018 EMUNI-OGS Summer School, at the Euro-Mediterranean University, in Piran, Slovenia, on the 22nd of June 2018: http://www.emuni.si/sites/default/files/Files_EN/Attachments/Blue_Growth.pdf

-Organization of the “ACCOBAMS Training Course on Photo-ID and Databases for Experts”, 1-5 October 2018, Byblos, Lebanon.

-Technical Meeting on the Management, Analysis and Quality Control of Ocean Acidification Observation Data, 22-26 October 2018, in the IAEA laboratories, Monaco: <https://news-oceanacidification-icc.org/2018/11/07/oa-icc-and-goa-on-organize-advanced-data-analysis-and-management-workshop-in-monaco/>

2017

-Co-chair in the Science Policy Interface and Ecosystem Approach Coordination Group Joint Meeting on IMAP Scale of Monitoring and Assessment and QSR, held on 27-28 April 2017 in Nice, France, organized jointly by Plan Bleu and the CU/MED POL of UN Environment/MAP: <http://planbleu.org/en/event/invitation-joint-workshop-science-policy-interface-spi-strengthening-and-ecosystem-approach>

-“Sustainable Blue Growth in Mediterranean and Black Sea Countries” summer school, held in Trieste from 10 to 19 of July 2017 (<http://summerschool.inogs.it/>).

-The 10th International Carbon Dioxide Conference (ICDC10: <http://www.icdc10.unibe.ch/>) held between 21st and 25th of August 2017 in Interlaken,

Curriculum Vitae

Abed El Rahman HASSOUN

Switzerland. Poster: Acidification and carbonate system trends in the Eastern Mediterranean Sea.

-“Blue Mission” Training Course on blue growth in the Mediterranean with the focus on the maritime transport sector and ports, 13-17 November 2017 in Piran, Slovenia, organized by the EMUNI (Euro-Mediterranean University: <http://www.emuni.si/en/bluemission>).

2016

-Mares Conference, Marine Ecosystems Health and Conservation, February 1st-5th 2016, Olhão, Portugal. Organized by Mares Conference Coordination Office, Ghent University/Belgium and Centre of Marine Sciences (CCMAR), University of Algarve/Portugal. I participated in two studies presented during this event: 1- What is the acidification level in the Mediterranean Sea? 2- Average pH variations in the Mediterranean Sea surface waters: ISBN 9789461973559. <http://www.maresconference.eu/>

-The 3rd Global Ocean Acidification Observing Network Science Workshop (GOA-ON ; www.goa-on.org), May 8th-10th 2016, Hobart, Tasmania, Australia.

2015

-Training entitled “Ostreopsis isolation cells and maintenance of Cultures” in the Università Politecnica Delle Marche (UNIVPM), Ancona/Italy, for two months (September-October 2015) in the context of a European project: <http://m3-habs.net/about-m3-habs/>
-The 20th annual international LAAS conference entitled “New Frontiers in Sciences”, March 27th-29th 2014, jointly organized by LAAS, EDST-LU and CNRS in the Lebanese University/Hadath/Lebanon. During this conference, I presented an oral presentation entitled “Anthropogenic CO₂ and acidification in the Mediterranean Sea during May 2013”: <http://www.biotech.ul.edu.lb/laas20/program.html>

2014

-The 3rd annual congress for the Ph.D. students of the Université De Perpignan Via Domitia, May 15th-16th 2014, at the Université De Perpignan Via Domitia/Perpignan/France. During this congress, I presented an oral presentation entitled “Analysis and Modeling of acidification in the Mediterranean Sea”: <http://upvdoc.univ-perp.fr/programme.pdf>

-The ESA conference entitled "Earth Observation for Ocean-Atmosphere Interactions Science 2014", October 28th-31st 2014, co-organised by ESA (European Space Agency), SOLAS and EGU in the European Space Agency/ESRIN/Frascati/Italy: <http://eo4oceanatmosphere2014.info/>

2013

-The GreenSeas summer school entitled “Global plankton data: ecosystems, monitoring and modelling in an era of global warming”, between the 28th of January and the 2nd of February 2013, in the University of Cape Town/Cape Town/South Africa: <http://www.greenseas.eu/content/greenseas-summer-school>

-The 6th international SOLAS summer school entitled “Surface Ocean-Lower Atmosphere Study”, between the 23rd of August and the 2nd of September 2013, at the State Key Laboratory of Marine Environmental Science/Xiamen University/China: <http://mel.xmu.edu.cn/solassummerschool/>

-The Sino-German summer school on Marine Sciences entitled “Dynamics in Atmosphere and Ocean Coupling”, held by the Center for Sino-German Cooperation in Marine Sciences (SGMS), September 2nd-13th 2013, in Qingdao/China. Contributing universities and institutions were: the Ocean University of China (OUC), the Zhejiang University, the Second Institute of Oceanography (State Oceanic Administration), the University of Kiel (CAU), the University of Bremen, the University of Hamburg and the Leibniz Institute of Baltic Research, Warnemünd Marine Research (AWI): <http://www2.ouc.edu.cn/sgms/>

-The International Conference on Oceanography and Sustainable Marine Production entitled “A Challenge of Managing Marine Resources in a Changing Climate-ICOSMaP-2013”, October 29th-31st 2013, in Kuantan/Malaysia. During this event, I presented a study on the “Inter-annual variations of water and air temperatures in Lebanese coastal waters (2000-2012)”: <http://inoctr.org/files/ICOSMAP2013.pdf>

2012

-Member of the organizing committee of the INOC/CNRS International Conference entitled “Land-Sea Interactions in the Coastal Zone, LANDSI- 2012”, in Byblos/Lebanon, November 6th-8th 2012. During this event, I displayed an oral presentation on the “Effects of Continental Input on Marine Environment in the Lebanese Coastal Waters “. INOC: <http://www.inoctr.org/>, CNRS: www.cnrs.edu.lb.

2011

-An international workshop entitled “Environmental impacts know no boundaries”, June 5th-19th 2011, in LA Spezia/Italy, organized by ENEA (www.santateresa.enea.it) and Environmental Ocean Team (www.ocean-team.org).

2010

-International courses for training on the marine taxonomy, from the 20th of September till the 2nd of November 2010, in Turkey (Istanbul-Izmir), organized by INOC (Inter-Islamic Network on Oceanography): <http://www.inoctr.org/>

Publications
***Peer-reviewed journals**

1-**HASSOUN Abed El Rahman**, GUGLIELMI Véronique, GEMAYEL Elissar, GOYET Catherine, ABOUD-ABI SAAB Marie, GIANI Michele, ZIVERI Patrizia, INGROSSO Gianmarco, TOURATIER Franck, 2015. Is the Mediterranean Sea Circulation in a Steady State? *Journal of Water Resources and Ocean Science*, 4 (1), 6-17, doi: 10.11648/j.wros.20150401.12.

2-**HASSOUN Abed El Rahman**, GEMAYEL Elissar, KRASAKOPOULOU Evangelia, GOYET Catherine, ABOUD-ABI SAAB Marie, ZIVERI Patrizia, TOURATIER Franck, GUGLIELMI Véronique, FALCO Cédric, 2015. Modeling of the Total Alkalinity and the Total Inorganic Carbon in the Mediterranean Sea. *Journal of Water Resources and Ocean Science*, 4 (1), 24-32, doi: 10.11648/j.wros.20150401.14.

3-**HASSOUN Abed El Rahman**, GEMAYEL Elissar, KRASAKOPOULOU Evangelia, GOYET Catherine, ABOUD-ABI SAAB Marie, TOURATIER Franck, GUGLIELMI Véronique, FALCO Cédric, 2015. Acidification of the Mediterranean Sea from anthropogenic carbon penetration. *Deep Sea Research Part I: Oceanographic Research Papers*, 102, 1–15, <https://doi.org/10.1016/j.dsr.2015.04.005>.

4-GEMAYEL Elissar, **HASSOUN Abed El Rahman**, BENALLAL MOHAMED Anis, GOYET Catherine, RIVARO Paola, ABOUD-ABI SAAB Marie, KRASAKOPOULOU Evangelia, TOURATIER Franck, and ZIVERI Patrizia, 2015. Climatological variations of total alkalinity and total inorganic carbon in the Mediterranean Sea surface waters. *Earth System Dynamics*, 6, 789–800, <https://doi.org/10.5194/esd-6-789-2015>.

5-GOYET Catherine, **HASSOUN Abed El Rahman**, GEMAYEL Elissar, TOURATIER Franck, ABOUD-ABI SAAB Marie, and GUGLIELMI Véronique, 2016. Thermodynamic Forecasts of the Mediterranean Sea Acidification. *Mediterranean Marine Science*, 17(2), 508-518. <https://doi.org/10.12681/mms.1487>.

6- JEMAA Sharif, LTEIF Myriam, MAHFOUZ Céline, OUBA Anthony, **HASSOUN Abed El Rahman**, GEMAYEL Elissar, and KHALAF Gaby, 2016. Biological characteristics of the round sardinella Sardinella aurita Valenciennes off the Lebanese coast. *Studia Marina*, 29 (1): 7–20.

7- ABOUD-ABI SAAB Marie and **HASSOUN Abed El Rahman**, 2017. Effects of organic pollution on environmental conditions and the phytoplankton community in the central Lebanese coastal waters with special attention to toxic algae. *Regional Studies in Marine Science*, 10, 38–51, <http://doi.org/10.1016/j.rsma.2017.01.003>.

8- **HASSOUN Abed El Rahman**, FAKHRI Milad, RAAD Najla'a, ABOUD-ABI SAAB Marie, GEMAYEL Elissar, DE CARLO Eric Heinen, 2019. The carbonate system of the Eastern-most Mediterranean Sea, Levantine Sub-basin: Variations and drivers. *Deep Sea Research Part II: Topical Studies in Oceanography*, Volume 164, Pages 54-73, DOI: <https://doi.org/10.1016/j.dsr2.2019.03.008>

9- Hainbacher, D., Álvarez, M., Astray Uceda, B., Bachi, G., Cardin, V., Celentano, P., Chaikalis, S., del Mar Chaves Montero, M., Civitarese, G., Fajar, N. M., Fripiat, F., Gerke, L., Gogou, A., Guallart, E. F., Gulk, B., **HASSOUN, A. E. R.**, Lange, N., Rochner, A., Santinelli, C., Steinhoff, T., Tanhua, T., Urbini, L., Velaoras, D., Wolf, F., and Welsch, A., 2020. Physical and biogeochemical parameters of the Mediterranean Sea during a cruise with RV Maria S. Merian in March 2018. *Earth System Science Data*, 12, 2747–2763, <https://doi.org/10.5194/essd-12-2747-2020>.

10- **HASSOUN, A. E. R.**, Ujević, I., Mahfouz, C., Fakhri, M., Roje-Busatto, R., Jemaa, S., and Nazlić, N., 2021. Occurrence of domoic acid and cyclic imines in marine biota from Lebanon- Eastern Mediterranean Sea. *Science of The Total Environment*, 142542. <https://doi.org/10.1016/j.scitotenv.2020.142542>

11-**Hassoun A.E.R.**, J. Guiot, K. Marini, and W. Cramer, 2021. The Changing Mediterranean Basin Through The Lens of Mediterranean Experts. *International Journal of Euro-Mediterranean Studies*, 13 (2020/2), 117-132, https://emuni.si/wp-content/uploads/2021/02/IJEMS_13_2_2020.pdf.pdf

12- Jemaa S, Mahfouz C, Kazour M, Lteif M, **Hassoun A.E.R.**, Ghsoub M, Amara R, Khalaf G and Fakhri M, 2021. Floating Marine Litter in Eastern Mediterranean From Macro to Microplastics: The Lebanese Coastal Area as a Case Study. *Frontiers in Environmental Science*, 9:699343. <https://doi.org/10.3389/fenvs.2021.699343>

13- **Hassoun, A.E.R.**, R. Hernández-Moresino, E.S. Barbieri, J.C. Carballo, A. Crespi-Abril, A. De Cian, L. Epherra, M. Fakhri, A. Ghanem, H. Jaber, M.-T. Kassab, A. Martelli, A. Ouba, F. Paparazzo, J.P. Pisoni, E. Tarek, and J.G. Vázquez., 2022. Coastal monitoring in the context of climate change: Time-series efforts in Lebanon and Argentina. Pp. 12–13 in *Frontiers in Ocean Observing: Documenting Ecosystems, Understanding Environmental Changes, Forecasting Hazards*. E.S. Kappel, S.K. Juniper, S. Seeyave, E. Smith, and M. Visbeck, eds, A Supplement to *Oceanography* 34(4), <https://doi.org/10.5670/oceanog.2021.supplement.02-05>.

14- **Hassoun, Abed El Rahman**, Ivana Ujević, Sharif Jemaa, Romana Roje-Busatto, Céline Mahfouz, Milad Fakhri, and Nikša Nazlić. 2022. Concentrations of Tetrodotoxin (TTX) and Its Analogue 4,9-Anhydro TTX in Different Tissues of the Silver-Cheeked Pufferfish (*Lagocephalus sceleratus*, Gmelin, 1789) Caught in the South-Eastern Mediterranean Sea, Lebanon. *Toxins*, 14, no. 2: 123. <https://doi.org/10.3390/toxins14020123>

15- Guallart, E.F., Fajar, N.M., García-Ibáñez, M.I., Castaño-Carrera, M., Santiago-Doménech, R., **Hassoun, A.E.R.**, F. Pérez, F., Easley, R.A. and Álvarez, M., 2022. Spectrophotometric Measurement of Carbonate Ion in Seawater over a Decade: Dealing

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Abed El Rahman HASSOUN

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<https://doi.org/10.1021/acs.est.1c06083>

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- 17- **Hassoun A.E.R.**, Bantelman A., Melaku Canu D., Comeau S., Galdies C., Gattuso J.-P., Giani M., Grelaud M., Hendriks I., Ibello V., Idrissi M., Krasakopoulou E., Shaltout N., Solidoro C., Swarzenski P., and Ziveri P., 2022. Ocean Acidification Research in the Mediterranean Sea: Status, Trends and Next Steps. *Front. Mar. Sci. Sec. Marine Biogeochemistry*, [Frontiers | Ocean acidification research in the Mediterranean Sea: Status, trends and next steps \(frontiersin.org\)](#).
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- 19- Mahfouz M., Jemaa S., Kazour M., **Hassoun A.E.R.**, Lteif M., Ghsoub M., Ouba A., Amara R., Fakhri M., 2023. First assessment of microplastics in offshore sediments along the Lebanese coast, South-Eastern Mediterranean. *Marine Pollution Bulletin*, 186, p.114422. [First assessment of microplastics in offshore sediments along the Lebanese coast, South-Eastern Mediterranean - ScienceDirect](#).
- 20- KOFFI, K.U., KONAN, E.S., **HASSOUN, A.E.R.** and KOUADIO, Y., 2024. Relationship between the carbonate system and phytoplankton community in the Gulf of Guinea-AFRICA. *Frontiers in Marine Science*, 11, p.1286338. [Relationship between the carbonate system and phytoplankton community in the Gulf of Guinea-AFRICA \(frontiersin.org\)](#).
- 21- Abboud-Abi Saab, Marie and Ouba, Anthony and Lteif, Myriam and Ghsoub, Myriam and Jemaa, Sharif and **Hassoun, Abed El Rahman** and Mahfouz, Celine and Fakhri, Milad, First Results on Vertical Distribution of Tintinnid Assemblages in Offshore Lebanese Marine Waters - Eastern Mediterranean Sea. Available at SSRN: <https://ssrn.com/abstract=4886636> or <http://dx.doi.org/10.2139/ssrn.4886636>.
- 22- **Hassoun, A.E.R.**, Tanhua, T., Lips, I., Heslop, E., Petihakis, G. and Karstensen, J., 2024. The European Ocean Observing Community: urgent gaps and recommendations to implement during the UN Ocean Decade. *Frontiers in Marine Science*, 11, p.1394984. [https://www.frontiersin.org/journals/marine-science/articles/10.3389/fmars.2024.1394984/full](#)
- 23- Tanhua, T., Le Traon, P.Y., Köstner, N., Eparkhina, D., Navarro, G., Dunbar, M.B., Speich, S., Pascual, A., Von Schuckmann, K., Liguori, G., Karstensen, J., **Hassoun, A.E.R.**, et al., 2024. Towards a sustained and fit-for-purpose European Ocean Observing and Forecasting System. *Frontiers in Marine Science*, 11, p.1394549. [https://www.frontiersin.org/journals/marine-science/articles/10.3389/fmars.2024.1394549/full](#)

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25- Hadjisolomou, Ekaterini and **Hassoun, Abed El Rahman** and Fakhri, Milad and Ghanem, Abeer and Mina, Roula and Herodotou, Herodotos and Michaelides, Michalis, 2025. Exploring Seasonal Coastal Water Quality Parameter Interactions Through the Self-Organizing Map Neural Network in Eastern Mediterranean: Lebanon as a Case Study. Available at SSRN: <https://ssrn.com/abstract=5152811> or <http://dx.doi.org/10.2139/ssrn.5152811>

26- **Hassoun, A.E.R.**, Sutton, A.J., Dupont, S., Guo, X. and Hernandez-Ayon, J.M., 2025. Time-Series Observations of Ocean Acidification: a Key Tool for Documenting Impacts on a Changing Planet. *Frontiers in Marine Science*, 12, p.1581134. <https://www.frontiersin.org/journals/marine-science/articles/10.3389/fmars.2025.1581134/full>

27- Ouba, A., Lteif, M., Ghsoub, M., Jemaa, S., **Hassoun, A.E.R.**, Mahfouz, C., Fakhri, M. and Abboud-Abi Saab, M., 2025. Vertical Distribution of Tintinnid Assemblages in the Eastern Mediterranean Sea. *Marine Ecology*, 46(5), p.e70046. <https://onlinelibrary.wiley.com/doi/full/10.1111/maec.70046>

28- **Hassoun, A.E.R.**, Mojtabid, M., Merheb, M., Lionello, P., Gattuso, J.P. and Cramer, W., 2025. Climate change risks on key open marine and coastal mediterranean ecosystems. *Scientific Reports*, 15(1), p.24907. [Climate change risks on key open marine and coastal mediterranean ecosystems | Scientific Reports](#)

29- Álvarez, M., García-Ibáñez, M. I., Lange, N., Kozyr, A., Velo, A., Tanhua, T., Civitarese, G., Cantoni, C., Belgacem, M., Schroeder, K., Acerbi, R., Coppola, L., Wagener, T., Fajar, N. M., Flecha, S., Giani, M., Giannoudi, L., Guallart, E. F., **Hassoun, A.E.R.**, Huertas, E. I., Ibello, V., Keraghel, M. A., Louanchi, F., Luchetta, A., Pérez, F. F., Schirnick, C., Souvermezoglou, E., Urbini, L., Vidal, M., and Ziveri, P., 2025. CARIMED (CARbon, tracers, and ancillary data In the MEDiterranean Sea): A ship-based data synthesis product – overview and quality control procedures, *Earth Syst. Sci. Data Discuss.* [preprint], <https://doi.org/10.5194/essd-2025-759>, in review.

*Data publishing

1-GOYET Catherine, **HASSOUN Abed El Rahman**, GEMAYEL Elissar, 2015. Carbonate system during the May 2013 MedSeA cruise, doi:10.1594/PANGAEA.841933.

2-GOYET Catherine, GEMAYEL Elissar, **HASSOUN Abed El Rahman**, 2015. Underway pCO₂ in surface water during the 2013 MedSEA cruise, doi:10.1594/PANGAEA.841928.

3- **HASSOUN Abed El Rahman**, Goyet, Catherine, 2018. Dissolved inorganic carbon, total alkalinity, temperature and salinity measurements collected from discrete samples and profile observations during the R/V Angeles Alvarino MedSea2013 cruise (EXPOCODE 29AJ20130502) in the Mediterranean Sea from 2013-05-02 to 2013-06-02 (NCEI Accession 0173368). NOAA National Centers for Environmental Information. Dataset. <https://doi.org/10.7289/v5n87832>.

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Abed El Rahman HASSOUN

4- Álvarez Marta, Fiz F. Pérez, Elisa F. Guallart, Mónica Castaño-Carrera, Noelia M. Fajar, Maribel I. García-Ibáñez, Rocío Santiago-Domenech, **Abed El Rahman Hassoun**; 2021; "Ten years of Spanish ion carbonate data in the North Atlantic Ocean and Mediterranean Sea [Dataset]"; Digital.CSIC; <http://dx.doi.org/10.20350/digitalCSIC/13786>

5- Schroeder Katrin, Tanhua Toste, Borghini Mireno, Falcieri Francesco, Coppola Laurent, Fourrier Marine, Bosse Anthony, Álvarez Marta, García - ibáñez Maribel, **Hassoun Abed El Rahman**, Jacquet Stephanie, Santinelli Chiara, Martínez Ruiz Francisca, 2022. Bottle data collected during the cruise TAlPro2022 (from CTD sensors AND Chemical Analyses). SEANOE. <https://doi.org/10.17882/99916>

6- Koffi, Kouakou Urbain; Konan, Estelle Severine; **Hassoun, Abed El Rahman**; Kouadio, Yves, 2024. Seawater carbonate chemistry and phytoplankton community in the Gulf of Guinea-Africa [dataset]. PANGAEA, <https://doi.org/10.1594/PANGAEA.968777>

7- García-Ibáñez, Maribel I.; Álvarez, Marta; Lange, Nico; Kozyr, Alex; Velo, Antón; Tanhua, Toste; Civitarese, Giuseppe; Cantoni, Carolina; Belgacem, Malek; Schroeder, Katrin; Acerbi, Rubén; Coppola, Laurent; Wagener, Thibaut; Fajar, Noelia M.; Flecha, Susana; Giani, Michele; Giannoudi, Louisa; Guallart, Elisa F.; **Hassoun, Abed El Rahman**; Huertas, Emma I.; Ibello, Valeria; Keraghel, Mehdia Asma; Louanchi, Férial; Luchetta, Anna; Pérez, Fiz F.; Schirnick, Carsten; Souvermezoglou, Ekaterini; Urbini, Lidia; Vidal, Montserrat; Ziveri, Patrizia; 2025. CARIMED (CARbon, tracers, and ancillary data In the MEDiterranean Sea) aggregated original cruise data producto [Dataset]; DIGITAL.CSIC; <https://doi.org/10.20350/digitalCSIC/17785> / [Ocean Carbon and Acidification Dataset: NCEI Accession 0309255](https://doi.org/10.20350/digitalCSIC/17785)

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3-**HASSOUN Abed El Rahman**, GOYET Catherine, ABBOUD-ABI SAAB Marie, ZIVERI Patrizia, KRASAKOPOULOU Evangelia, GIANI Michele, GEMAYEL Elissar, INGROSSO Gianmarco, 2014. Anthropogenic CO₂ and acidification in the Mediterranean Sea during May 2013. The 20th LAAS conference proceedings 2014: <http://www.biotech.ul.edu.lb/laas20/program.html>

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6-**HASSOUN Abed El Rahman**, GEMAYEL Elissar, and ABOUD-ABI SAAB Marie, 2016. A survey of the carbonate system in the Levantine Mediterranean Sub-basin. *Geophysical Research Abstracts*, 18, EGU2016-504-1, 2016. EGU General Assembly 2016.

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8-GEMAYEL Elissar, **HASSOUN Abed El Rahman**, GOYET Catherine, ABOUD-ABI SAAB Marie, 2016. Average pH variations in the Mediterranean Sea surface waters. 2016 Mares Conference, Olhão, Portugal, Volume: Abstract book. 85p, ISBN 9789461973559.

9-**HASSOUN Abed El Rahman**, 2017. Relationship between organic pollution and the occurrence of toxic Phytoplankton species in the Lebanese coastal waters. *Geophysical Research Abstracts*, Vol. 19, EGU2017-9494-3, 2017, EGU General Assembly 2017.

10-**HASSOUN Abed El Rahman**, GEMAYEL Elissar, RAAD Najla'a, FAKHRI Milad, ABOUD-ABI SAAB Marie, 2017. First survey of the carbonate system in the Lebanese seawater, Eastern Mediterranean Sea. The 23rd LAAS conference proceedings 2017, Faculty of Sciences, Lebanese University, Fanar, Beirut.

11-**HASSOUN Abed El Rahman**, RAAD Najla'a, GEMAYEL Elissar, FAKHRI Milad, ABOUD-ABI SAAB Marie, 2017. Acidification and carbonate system trends in the Eastern Mediterranean Sea. 10th International Carbon Dioxide Conference - University of Bern, 21-25 August 2017 Interlaken, Switzerland.

12-**HASSOUN Abed El Rahman**, GEMAYEL Elissar, RAAD Najla'a, ABOUD-ABI SAAB Marie, FAKHRI Milad, 2018. First quantification of the carbonate system and the acidification in the Eastern Mediterranean Sea. 2018 Ocean Sciences Meeting, OC13A-03, Portland, USA.

13-**HASSOUN Abed El Rahman**, 2019. Acidification of the Lebanese Seawater, Levantine Sub-basin, Eastern Mediterranean Sea. *Geophysical Research Abstracts*, Vol. 21, EGU2019-1013, 2019, EGU General Assembly 2019.

14-HABIB Majd, **HASSOUN Abed El Rahman**, BEAUFORT Luc, 2019. Evolution and Adaptation of Coccolithophores to Recent Environmental Changes in the Mediterranean Sea. The First Italian-Lebanese Science Day: "Global Science", LAAS conference proceedings 2019, American University of Beirut (AUB), Beirut, Lebanon: <http://laaslb.org/wp-content/uploads/2019/04/Proceedings-and-abstracts-april-4.pdf>

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19- **HASSOUN Abed El Rahman**, FAKHRI Milad, HABIB Majd, OUBA Anthony, JEMAA Sharif, MAHFOUZ Céline, JABER Houssein, GHANEM Abeer, TANNOUS Mariam, EL KHEIR Mohamad, 2020. Spatio-temporal survey of the coastal carbonate system offshore Lebanon-Levantine Mediterranean Sea. Geophysical Research Abstracts, EGU2020-19618, updated on 28 May 2020: <https://doi.org/10.5194/egusphere-egu2020-19618>

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21- Fernández-Guallart, E.; Fajar, Noelia; Castaño, Mónica; Santiago-Domenech, Rocío; **Hassoun, Abed El Rahman**; Pérez, Fiz F. ; Easley, Regina; Álvarez, Marta, 2021. A decade of spectrophotometric carbonate ion measurements in seawater dealing with inconsistencies. ASLO 2021 Aquatic Sciences Meeting, 22–27 June, Virtual. <https://digital.csic.es/handle/10261/260131>

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29- Lowder Kaitlyn, Kim Currie, Christopher Sabine, Andrew G. Dickson, Libby Jewett, Alexis Valauri-Orton, Sam Dupont, Lina Hansson, Kirsten Isensee, Marine Lebrec, **Abed El Rahman Hassoun**, Yashvin Neehaul, Katy Soapi, Mary Chris Lagumen, Gabby Kitch, Melissa Meléndez, Maribel I. García-Ibáñez, Ashley Bantelman, Katherine Schoo, Sarah Flickinger, Sophie Chu, Kalina Grabb, Regina Easley-Vidal, 2023. The development of accessible best practices for monitoring ocean acidification globally through the “GOA-ON in a Box” initiative. Ocean Science Meeting, 2024. ED013 - Ocean acidification capacity building within communities, society, and education (GOA-ON session). [The development of accessible best practices for monitoring ocean acidification globally through the “GOA-ON in a Box” initiative \(confex.com\)](#).

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33- Rico-Vélez, D.L., Mokos, M., Coelho, M., **Hassoun, A.E.R.**, and Ghribi, M., 2024. The Mediterranean blue economy sectors and the role of ocean literacy. In BOOK OF ABSTRACTS of the 11th European Marine Science Educators Association Conference (pp. 89-90). Zadar: Sveučilište u Zadru. <https://www.croris.hr/crosbi/publikacija/prilog-skup/899975>

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***Reports, Best Practices, Proceedings & Book chapters**

2017

- Conclusions and Recommendations of the Science Policy Interface and Ecosystem Approach Coordination Group Joint Meeting on IMAP Scale of Monitoring and Assessment and QSR, prepared with Plan Bleu in the framework of the Joint Meeting on IMAP Scale of Monitoring and Assessment and QSR that was held in Nice, France, 2017: <http://planbleu.org/en/event/invitation-joint-workshop-science-policy-interface-spi-strengthening-and-ecosystem-approach>

2018

- Technical report on the seawater quality of the Lebanese coast 2018: www.cnrs.edu.lb

2019

- GOA-ON (Global Ocean Acidification Observing Network), 2019. “Global Ocean Acidification Observing Network (GOA-ON) Implementation Strategy, 2019.” Newton, J.A., University of Washington, USA; Jewett, E.B., NOAA, USA; Tilbrook, B., CSIRO, Australia; Bellerby, R., East China Normal University, China and NIVA, Norway; Chai, F., OED, Second Institute of Oceanography, SOA, China and University of Maine, USA; Chen, C.-T. A., National Sun YetSen University, Taiwan; Dupont, S., University of Gothenberg, Sweden; Feely, R. A., NOAA PMEL, USA; Findlay, H. S., Plymouth Marine Laboratory, United Kingdom; Hansson, L., IAEA OA-ICC, Monaco; **Hassoun, A.E.R., National Council for Scientific Research, Lebanon**; Isensee, K., IOC, UNESCO; Khokiattiwong, S., Phuket Marine Biological Center, Thailand; Mayorga, E., University of Washington, USA; McIntosh, R.D., The Secretariat of the Pacific Regional Environment Programme, Samoa; Pfeil, B., University of Bergen, Norway; Schoo, K. L., IOC-UNESCO; Shaltout, N., National Institute of Oceanography and Fisheries, Egypt; Vargas, C., Universidad de Concepcion, Chile. http://www.goa-on.org/documents/general/GOA-ON_Implementation_Strategy.pdf

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2020

-IUCN 2020. Towards a western Indian Ocean regional ocean acidification action plan. Laffoley, D., Baxter, J.M., **Hassoun, A.E.R.**, Spalding, M., Osborn, D., Oliver, J., & Andrew, T.G. 2020. Workshop report-Switzerland, IUCN. 29pp.

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- United Nations Environment Programme/Mediterranean Action Plan and Plan Bleu (2020). State of the Environment and Development in the Mediterranean. Nairobi. UNEP/MAP and Plan Bleu, 2020. <https://planbleu.org/wp-content/uploads/2020/11/SoED-Full-Report.pdf>

- Balzan MV, **Hassoun A.E.R.**, Aroua N, Baldy V, Bou Dagher M, Branquinho C, Dutay J-C, El Bour M, Médail F, Mojtaid M, Morán-Ordóñez A, Roggero PP, Rossi Heras S, Schatz B, Vogiatzakis IN, Zaimes GN, Ziveri P., 2020. Ecosystems. In: Climate and Environmental Change in the Mediterranean Basin –Current Situation and Risks for the Future. First Mediterranean Assessment Report [Cramer W, Guiot J, Marini K (eds.)] Union for the Mediterranean, Plan Bleu, UNEP/MAP, Marseille, France, pp. 323-468.
 The chapter “Ecosystems”: https://www.medecc.org/wp-content/uploads/2021/05/MedECC_MAR1_4_Ecosystems.pdf
 Entire report: <https://www.medecc.org/first-mediterranean-assessment-report-mar1/>

2022

- TAIPro2022 cruise report/R/V BELGICA Cruise n. 2022/12. DOI: 10.5281/zenodo.6918731, <https://zenodo.org/record/6918731#.YvTl12PP1PY>

-Pouliquen, S., Obaton, D., Novellino, A., Giorgetti, A. and **Hassoun, A.E.R.**, 2022. Network harmonization recommendations, EuroSea (D3.7).
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2023

- Álvarez, M., Catalá, T.S., Civitarese, G., Coppola, L., **Hassoun, A.E.R.**, Ibello, V., Lazzari, P., Lefevre, D., Macías, D., Santinelli, C. and Ulises, C., 2023. Mediterranean Sea general biogeochemistry. In Oceanography of the Mediterranean Sea (pp. 387-451). Elsevier. [Mediterranean Sea general biogeochemistry - ScienceDirect](https://www.sciencedirect.com/science/article/pii/S0028130422000337).

-Lips, I., Heslop, E., van Doorn, E., **Hassoun, A.E.R.**, Hymans, S., Lopez, A.L., Palacz, A., Pearlman, J., Muniz Piniella, A., Simpson, P. and Tanhua, T., 2023. Final Report of EOOS Implementation Plan. DOI: [10.3289/eurosea_d1.8](https://doi.org/10.3289/eurosea_d1.8).

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-**Hassoun, A.E.R.**, Tanhua, T., Heslop, E., and Lips, I., 2023. Scoring approach for the European Ocean Observing & Forecasting System (EOOFS) (Version V1). Zenodo. <https://doi.org/10.5281/zenodo.10075908>.

- Lips, I., Heslop, E., van Doorn, E., **Hassoun, A.E.R.**, Hymans, S., Lopez, A.L., Palacz, A., Pearlman, J., Muniz Piniella, A., Simpson, P. and Tanhua, T., 2023. Final Report of EOOS Implementation Plan. [Final Report of EOOS Implementation Plan. - OceanRep \(geomar.de\)](https://geomar.de/Final_Report_of_EOOS_Implementation_Plan._-OceanRep_(geomar.de).pdf).

- Vanessa Cardin, Maribel I. García-Ibáñez, Toste Tanhua, Louisa Giannoudi, Dimitris Velaoras, **Abed El Rahman Hassoun**, Sana Ben Ismail, Marta Alvarez, Katrin Schroeder, 2023. Mediterranean Sea Ship-based Hydrography Programme (Med-SHIP) in Proceedings of the 10th EuroGOOS International Conference. European Operational Oceanography for the ocean we want - Addressing the UN Ocean Decade challenges. 3-5 October 2023, Galway, Ireland. Eparkhina, D., Nolan, J.E. (Eds). EuroGOOS. Brussels, Belgium. 2023. DOI: <http://hdl.handle.net/10793/1883>.

2024

-Nolan, J., Lips, I., Blanco, A., Breviere, E., Cronne, L., **Hassoun, A.E.R.**, Eparkhina, D. Tanhua, T., Holdsworth, N., Larkin, K., Misurale, F., Novellino, A., & Tijssens, M. (EuroGOOS) Study for reporting obligations for ocean observation (All Ocean Obs),

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Abed El Rahman HASSOUN

Publications Office of the European Union, 2024, DOI:10.2926/8693. [Study for reporting obligations for ocean observation - European Commission \(europa.eu\)](#)

- Fauville, G. and **Hassoun, A.E.R.**, Bantelman, A., Breidahl, H., Cooley, S., Eparkhina, D., Flickinger, S., Galdies, C., Ghribi, M., Matsumoto, G.I., Sánchez-Noguera, C., Newton, J.A., Sánchez Álvarez, Y., 2024. OARS Outcome 6: Increase public awareness of ocean acidification, its sources, and impacts, achieved via ocean literacy and public outreach. In: Ocean Acidification Research for Sustainability – A Community Vision for the Ocean Decade. IOC-UNESCO. 2024. Ocean Acidification Research for Sustainability – A Community Vision for the Ocean Decade. Paris, IOC-UNESCO. (IOC Technical Series, 185.) doi: <https://doi.org/10.25607/YPE3-0H04>

- **Hassoun, A.E.R.**, and Karstensen, J., 2024. Planning Preparation of the Rolling Review of Requirements Process (Milestone MS15). [ObsSea4Clim](#) project. Zenodo. <https://doi.org/10.5281/zenodo.13837427>

- Kartensen, J. and **Hassoun, A.E.R.**, 2024. Planning the RRR for ObsSea4Clim Application Areas in WP4. Zenodo. <https://doi.org/10.5281/zenodo.13837221>

- Currie, K., Sabine, C., Lowder, K., **Hassoun, A. E. R.**, García-Ibáñez, M. I., Meléndez, M., and Schoo, K., 2024. In K. Lowder, S. Chu, R. Easley, R. Spaulding, B. Peterson, K. Grabb, & A. Reed (Eds.), Practical Best Practices for Ocean Acidification Monitoring, version 1 (1st ed.). <https://doi.org/10.21428/d8129fa3.1130d5cf>

2025

- Karstensen, J., Dilmahamod, A.F., Balan, V.S., Behr, Y., Boskamp, G., Brechtelsbauer, S., Glüsen, L., **Hassoun, A.E.R.**, Klopfer, M., Krahmann, G. and Lösel, C., 2025. Investigating large to submesoscale flow in the Labrador Sea, Cruise No. MSM129/2, 07. June 2024-06. July 2024, St. John's (Canada)-Reykjavik (Iceland). https://doi.org/10.48433/cr_msm129_2

- Hadjisolomou, E., **Hassoun, A.E.R.**, Fakhri, M., Ghanem, A., Mina, R., Michaelides, M. and Herodotou, H., 2025. Modelling the Coastal Fecal Bacteria Contamination in the Eastern Mediterranean Region: Lebanon as a Case Study. In E3S Web of Conferences (Vol. 669, p. 07003). EDP Sciences. [Modelling the Coastal Fecal Bacteria Contamination in the Eastern Mediterranean Region: Lebanon as a Case Study | E3S Web of Conferences](#)

*Outreach articles

Hassoun Abed El Rahman, 2020. Research justice: We are better together! in NANO newsletter (May 2020): https://nf-pogo-alumni.org/wp-content/uploads/2020/06/NN18_02Jun.pdf, DOI: 10.13140/RG.2.2.16542.97606

-Outreach related to “[Climate change risks on key open marine and coastal mediterranean ecosystems](#)” (Hassoun et al., 2025): Examples: [What Climate Change Means for the Mediterranean Sea](#), [The Impact of Climate Change on the Mediterranean Sea: What We Need to Know](#) (Sciencmg), [Mediterranean Sea reaches its hottest temperatures ever recorded - Earth.com](#), etc.

Awards & grants

2021: [North-South Prize 2020](#) from the Council of Europe in Lisbon, Portugal for the MedECC report (Corresponding Lead Author of one [MAR1](#) chapters: [Ecosystems](#)).

2019: Grant from the Ocean Foundation to attend the 4th Global Ocean Acidification Observing Network (GOA-ON) International Workshop, in Hangzhou, China.

2018: POGO fellowship for Ship-board Training on MSM72. [Abed El Rahman Hassoun - Ocean Training Partnership](#).

2017: Grant from the IAEA to attend the 10th International Carbon Dioxide Conference in Interlaken, Switzerland.

2016: Grant from the IAEA to attend the 3rd Global Ocean Acidification Observing Network Science Workshop, in Hobart, Tasmania, Australia.

2016: Grant from the IAEA to attend the Mares Conference, Marine Ecosystems Health and Conservation, in Olhão, Portugal.

2014: Grant from the European Space Agency to attend the ESA conference in ESRIN, Frascati, Italy

2013: Grant from the IAEA to attend the 6th international SOLAS summer school in Xiamen University, China

2013: Grant from GreenSeas to attend a summer school in Cape Town, South Africa

2011: Doctoral scholarship by the National Council for Scientific Research-Lebanon

Review & editorship

*Participation in the review process of many scientific articles in international peer-reviewed journals, i.e. Scientific Data (Nature), Progress in Oceanography, Deep-Sea Research, Frontiers in Marine Sciences, Regional Environmental Change, Biogeosciences, Journal of Marine Systems, Oceanologia, etc.

*Topic editor of the Frontiers' special issue: [Time-Series Observations of Ocean Acidification: a Key Tool for Documenting Impacts on a Changing Planet | Frontiers Research Topic \(frontiersin.org\)](#)

*Jury member for Mediterranean Climate Change Adaptation Awards 2019 & 2020: www.medadapt-awards.com/en/home/

*Jury member for Ocean Acidification Information Exchange (OAIE) microgrants 2020: www.oainfoexchange.org

*Reviewer in the Scientific Committee of the UNEP/MAP and Plan Bleu report "State of the Environment and Development in the Mediterranean, SoED 2020": <https://planbleu.org/wp-content/uploads/2020/10/SoED-Full-Report.pdf>

*Examiner and jury member on the 12th of January 2023 in the PhD jury defense of Ms. Joelle Habib, entitled "Study of the variability of planktonic ecosystems and biogeochemical cycles in the Levantine basin by coupled hydrodynamic-biogeochemical 3D modelling" under the direction of Mr. Claude ESTOURNEL and Mr. Milad FAKHRI, in the research unit "LEGOS - Laboratory for Geophysical Studies and Space Oceanography", within the Doctoral School SDU2E - Sciences of the Universe, Environment and Space, in Université Paul Sabatier - Toulouse III. [TEL - Thèses en ligne \(hal.science\)](#)

Personal skills and competences

Mother tongue(s) **Arabic**
Other language(s)

Curriculum Vitae**Abed El Rahman HASSOUN**

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
French	Excellent	Excellent	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent	Excellent	Excellent
German	Basic	Basic	Basic	Basic	Basic

Skills and competences Competent with most Microsoft office programs, OceanDataView (ODV), CO2Syst./Calc., Zotero, R, and basic Matlab.

Excellent coordination, networking and leading skills.

Other skills and competences -Photography,
-I like visiting art galleries and museums, cooking, biking, hiking, travelling, experiencing new cultures and meeting new people.