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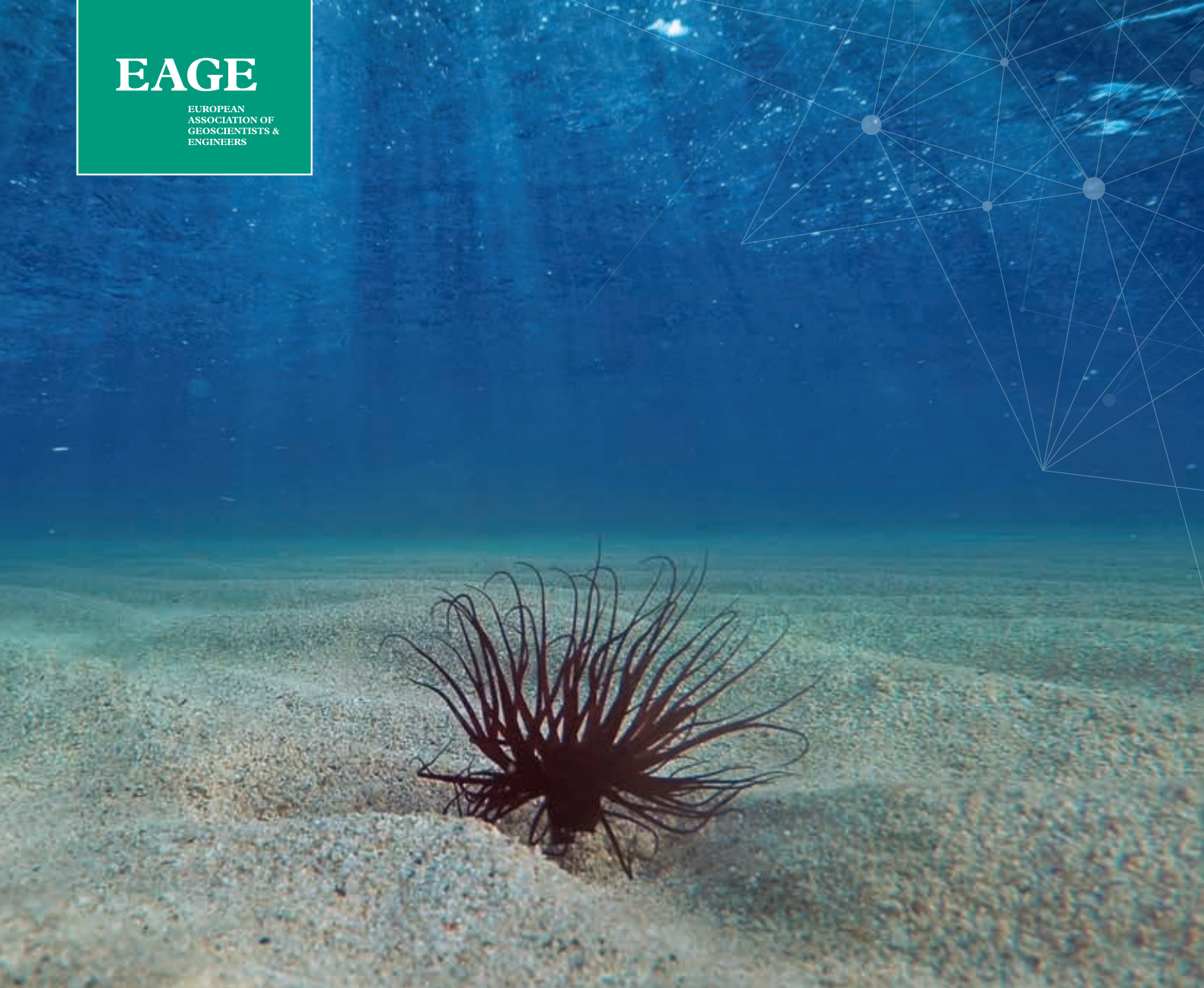
Third EAGE Seabed Seismic Today Workshop

SEABED SEISMIC: EVOLUTION THROUGH INNOVATION

24-26 NOVEMBER 2025 • MANAMA, BAHRAIN

- **Programme**

WWW.EAGE.ORG

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Anthony Mathieson	Aramco
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Tim Bunting	PXGEO
Adriana Citlali Ramirez	TGS

OVERVIEW

The Third EAGE Seabed Seismic Workshop reflects on the evolution of acquisition and processing through technology over the past few years, which has seen seabed seismic sought after for imaging the subsurface for field exploration and development, evergreening legacy data through velocity model building and becoming the gold standard for 4D. The workshop will look at the innovations and step-changes in design and applications that will shape the future of marine seabed seismic.

From acquisition to processing, the workshop will cover all applications and technological advances, including sources, traditional and distributed acoustic sensing (DAS),deployment innovation, novel survey designs and case studies, applications for emerging markets such as carbon storage and new processing and imaging solutions enabled by high-quality multi-component seismic data.

We are excited to have the third edition being held in Manama!

TOPICS

1. Advances in Seabed Acquisition
- On the source side
  - Source Technology – Inc. New Source Technology, Low Frequency, Frequency Controlled, Marine Vibrators, Non-conventional/ Non-Pneumatic, Autonomous Technology, Source Steering/ Wide-Tow
  - Source Acquisition Designs – Simultaneous Shooting, Hybrid / Mixed Sources, Blended Seismic
- On the receiver side
  - Receiver Technology – Inc. New Receiver Technology, Receiver Handling, Autonomous Technology, Automation, IFQC/ML/AI for Data Harvesting and QC, Surface/Vertical DAS, SPNs (Semi-Perm), PRMs, Environmental Monitoring
  - Receiver Acquisition Designs – Inc. Sparse Nodes, Innovative Geometries, Hybrid / Mixed Technology Designs, Compressive Sensing
- Case studies for Seabed Acquisition

2. Advances in Seabed Processing, FWI and Imaging
- Processing
  - Inc. Emerging Technology and Applications for Seabed Seismic Processing and Processing Mixed Datasets Inc. DAS and OBN, Streamer and OBN.
- FWI
  - Inc. Advances in FWI, Multi-Parameter FWI, Sparse Nodes for VMB, FWI for 4D Applications and Elastic FWI, Full Waveform Impedance Inversion, FWI derived reflectivity
- Imaging
  - Inc. Migration (Inc. RTM and Least-Squares Migration), NFH Imaging, and Multiphysics Imaging
- Data
  - Inc. AI and ML in Processing and Imaging, Handling Big Data, Data Transmission and Reprocessing, Rejuvenating and Repurposing Legacy Seabed Datasets
- Case studies for Seabed Processing, Imaging and FWI

3. Cooperation and Collaboration between Acquisition and Processing/Imaging
- **Acquisition**
  - How are Advances in Seabed Acquisition influencing Seabed Processing, FWI and Imaging.
- **Processing, FWI and Imaging**
  - How are Advances in Seabed Processing, FWI and Imaging influencing Seabed Acquisition.

4. Seabed Seismic and The Future
- Panel Session
  - ·The Path to Achieving Global Environmental Goals and Vision.
- Quick-Fire Techbyte
  - 5 minute Presentations on New / Crossover Technology
- Brainstorm Session
- Seabed Seismic and Applications in the CCS/CCUS lifecycle "Screening, Selection, Injection, Monitoring" and Wind Farm "Feasibility and Hazard Assessment".
- Innovation
  - Acquisition, Processing and Imaging Solutions for Alternative Markets Inc. Site Surveys, Offshore Wind, Marine Minerals, CCS/CCUS, TZ and ultra-shallow water, Co-located Fields.

KEYNOTE SPEAKER

Ted Manning
Senior Principal Innovation & Technology
bp

Gang Yu
Senior Technical Advisor to the President
of BGP
BGP, CNPC

PANEL SESSION

How can Seabed Seismic Achieve Global
Environmental Goals and Vision

Moderator

Ross Compton
Director of Global Policy
EnerGeo Alliance

Panelist

Ted Manning
Senior Principal Innovation & Technology
bp

Chris Walker
Chief Geophysicist
BGP Offshore

Gary Hampson
Advisor
Dug

Julien Large
Marine Sources Product Manager
Sercel

Oral Presentations | Monday, 24 November

	AL RIFAA BALLROOM
08:00	**Registration & Welcome Coffee**
08:30	**HSSE From Hotel**
08:35	**Welcome by Co-Chair James Wallace (BGP)**
8:45	**Keynote 1 - Imaging processing of 3D DAS-VSP data jointly acquired with a high-density OBN survey offshore Abu Dhabi** - Gang Yu (BGP, CNPC)

Session 1 - Case Studies for Seabed Acquisition Part I
Session Chairs: Gary Hampson (DUG) & Charles Cooper (BP)

09:15	**The Practical Impact of Effective Data Visualization and Analysis on Ocean Bottom Seismic Acquisition Operations** - R. Andrews[1], G. Pemberton[1]*, B. Wereshchuk[1] [1]Sercel
09:40	**Efficient OBN Surveys with a Single Vessel** - E. Hager[1], C. Strand[1], I. Gregory[1]* [1]SHEARWATER
10:05	**Discussion Session / Q&A**
10:20	**Morning Coffee Break**

Panel Discussion Topic: How can Seabed Seismic Achieve Global Environmental Goals and Vision
Moderator: Ross Compton (EnerGeo Alliance)

10:50	**Introduction to Panelists & Discussion** - Moderator: Ross Compton (EnerGeo Alliance) - Panelists: Ted Manning (bp), Julien Large (Sercel), Chris Walker (BGP), Gary Hampson (DUG)
11:55	**Lunch Break - Selections Restaurent (Seated Buffet Lunch)**

Session 2 - Cooperation and Collaboration between Acquisition and Processing/Imaging Part I
Session Chairs: Ali Alfaraj (DGS) & Olivier LAMERAIN (TotalEnergies)

12:55	**Are Near Field Hydrophone Recordings Useful** - C. Tsingas[1], D. Zhang[1], A. Alzayer[1]* [1]Saudi Aramco
13:20	**Addressing Geometry Aariations in a Multisurvey Ocean-Bottom Seismic Surveys using FWI with Illumination Probing Method** - Y. Gholami[1]*, F. Golfre' Andreasi[1], H. Damir[1], A. Bullock[1], A. Cooke[1], S. Christopher Way[2], M. Wierzchowska[2], H. Sese[2], E. Kristin Areklett[2] [1]Slb; [2]Equinor
13:45	**How High is High Blending Fold?** - G. Hampson[1]*, G. Watts[2] [1]DUG Technology; [2]New Wave Energy
14:10	**OBN Data Reconstruction with Physics Informed Neural Networks** - F. Brandolin[1]*, A. Alfaraj[2], T. Alkhalifah[1], C. Tsingas[2] [1]1 King Abdullah University of Science and Technology (KAUST); [2]EXPEC Advanced Research Center, Saudi Aramco
14:35	**Bringing High Density Acquisition to Transition Zone** - N. Goujon[1]* [1]STRYDE
15:00	**Discussion Session / Q&A (Includes all presenters from Sessions 1 & 2)**
15:30	**Closing Remarks by Chair/s**
15:35	**Afternoon Coffee Break**
16:05	**End of Day 1**

Oral Presentations | Tuesday, 25 November

AL RIFAA BALLROOM

Time	
08:00	**Registration & Welcome Coffee**
08:30	**Welcome by Co-Chair James Wallace (BGP)**

Session 3 - Advances in Seabed Acquisition Part I
Session Chairs: Tim Bunting (PXGEO) &
Anthony Mathieson (Aramco)

Time	
08:40	**The Next Level Of Automation For Ocean Bottom Node (OBN) Operations -** M. Farine[1]*, R. Basili[2], S. Taylor[3] [1]SAExploration; [2]inApril AS; [3]Ocean Infinity
09:05	**Dual-Clock Timing Solution for Ocean Bottom Node Acquisition -** B. Le Foulgoc[1]*, T. GIRARD[1], D. BARBOT[1], F. BONNEAU[1], T. NORMAND[1], A. LARLET[1], A. DUBOUE[1], J. LAINE[1] [1]Sercel
09:30	**3C-DAS System Development and Field Test for SDAS Measurement -** G. Yu[1,2]*, Y. Rao[3], Z. Ran[2], S. An[2], F. Tan[2], Q. Jing[3], L. Meng[3], J. Wang[3] [1]BGP; [2]Optical Science and Technology (Chengdu) Ltd.; [3]University of Electronic Science and Technology of China
09:55	**Morning Coffee Break**
10:25	**Comparing Sources and Receivers using Data from an Ocean Bottom Node Survey -** S. Ronen[1], T. Allemand[1], J. Aznar[1], M. Benaniba[1], S. Darling[1], A. Duboué[1], T.K.R. Harnar Singh[2], P. Herrmann[1], S. Laroche[1], G. Malveau[1], J. Large[1]*, N. Tellier[1], S. Shukri[2] [1]Sercel; [2]Petronas
10:50	**Estimation and Application of Project-wide Coordinate, Clock-drift and Water Velocity Corrections for OBN Datab -** I. Gregory[1]*, P. Scholtz[1], R. Telling[1], T. Nguyen[1], J. Holden[1] [1]Shearwater Geoservices, Gatwick
11:15	**Discussion Session / Q&A**
11:45	**Lunch Break - Selections Restaurant (Seated Buffet Lunch)**

Session 4 - Advances in Seabed Processing, FWI and Imaging Part I
Session Chairs: James Wallace (BGP Offshore) &
Charles Cooper (BP)

Time	
12:45	**Accelerated Beam Migration Imaging for Shallow OBN Data -** A. Alzayer[1], A. Alshangiti[2], C. Tsingas[1]*, S. Zainaldin[2], A. Alfaraj[1] [1]EXPEC Advanced Research Center; [2]Saudi Aramco Geophysical Imaging Department
13:10	**Advancing Complex Subsalt Imaging Using Elastic FWI and Sparse Ocean Bottom Node Acquisition -** H. Xing[1], M. Cvetkovic[1]* [1]Tgs
13:35	**Discussion Session / Q&A**

Session 5 - Cooperation and Collaboration between Acquisition and Processing/Imaging Part II
Session Chairs: Julien Large (Sercel) & Ali Alfaraj (DGS)

Time	
14:05	**OBN Acquisition and FWI -** T. Rayment[1]* [1]DUG
14:30	**Detailed Ultra-Shallow Seismic Imaging over a Very Large Area using High Resolution NFH Data -** S. Babkina[1]*, O. Khakimov[1], O. Andreeva[1], M. Mahgoub[2], G. Cambois[2] [1]Viridien; [2]ADNOC
14:55	**The Effects of Marine Currents on Seismic Data -** G. Hampson[1]* [1]DUG
15:20	**Discussion Session / Q&A**
15:50	**Closing Remarks by Chair/s**
15:55	**Afternoon Coffee Break**
16:25	**End of Day 2**
19:00	**Dinner Evening - GALLERY 21**

Oral Presentations | Wednesday, 26 November

AL RIFAA BALLROOM

Time	
08:00	**Registration & Welcome Coffee**
08:30	**Welcome by Co-Chairs James Wallace (BGP) & Ed Hager (Shearwater Geoservices)**

Session 6 - Advances in Seabed Acquisition Part II
Session Chairs: James Wallace (BGP Offshore) &
Olivier LAMERAIN (TotalEnergies)

Time	
08:40	**Keynote 2 - What's Next for OBN/ Marine Seabed Seismic - Ted Manning (bp)**
09:10	**Robust Source Separation in OBN data with Limited Dither -** A. Kashubin[1], V. Dolgov[1]*, Y. Bekhtin[1], S. Zainaldin[1], A. Alkhunani[1], A. Alghamdi[1] [1]Aramco
09:35	**A Near Seafloor Modelling Study and a Multicomponent Vz Denoising Application -** C. Tsingas[1]* [1]Aramco
10:00	**Morning Coffee Break**
10:30	**Innovative 4D Stategy Combining OBN Hybrid Vessel and On-Demand Philosophy -** O. LAMERAIN[1]* [1]Totalenergies
10:55	**Discussion Session / Q&A**

Session 7 - Case studies for Seabed Acquisitions Part II
Session Chairs: Tom Rayment (DUG) &
Mark Farine (SAExploration)

Time	
11:25	**Quad Source in Middle East Shallow Waters Context -** O. LAMERAIN[1]* [1]Totalenergies
11:50	**Recent Advancements in Caspian OBN Seismic -** C. Cooper[1]*, L. Shaw[1], P. Tillotson[1], M. Soliman[1], J. Northall[1], V. Orujov[1], T.A. Ibrahimzade[1] [1]bp
12:15	**Lunch Break - Selections Restaurant (Seated Buffet Lunch)**
13:15	**Exploration OBN Survey Design -** M. Cvetkovic[1]*, M. Widmaier[1], S. Baldock[1], G. Nash[1], D. Brookes[1], C. Udengaard[1], C. Schneider[1], M. Rocke[1], R. Huang[1] [1]TGS
13:40	**Utilization of Near Field Hydrophone (NFH) Data to Identify Near-Surface Hazard Zones in Ultra-Shallow Marine Environments -** M. Huang[1]*, S. Aldeghaither[1], S. Zainaldin[1], M. Gruszczyk[1] [1]Aramcor
14:05	**Discussion Session / Q&A**
14:35	**Closing Remarks by Chair/s**
14:45	**Afternoon Coffee Break**
15:15	**Close of Workshop**

Disclaimer: The programme is confirmed as of publishing date and may be subject to change without prior notice.

REGISTRATION

(All registration rates are in USD)

Registration Fees: Workshop Only

REGISTERED AND PAID	EARLY REGISTRATION 15/8/25 - 13/10/25	Regular Registration 14/10/25 - 04/11/25	Late Registration 05/11/25 - 28/11/25
EAGE Green Member[1,5]	1150	1400	1600
EAGE Bronze/Silver/Gold Member[1,5]	990	1250	1450
EAGE Platinum Member[1,5]	990	990	990
Non-member[3]	1250	1500	1700
EAGE Student Green Member[1,2,5]	375	425	475
EAGE Student Bronze/Silver/Gold Member[1,2,5]	300	350	400
Student Non-member[2,3,4]	400	450	500

VENUE

Intercontinental Bahrain
King Faisal Hwy, Manama, Bahrain

Dinner

GALLERY 21
Building 21, Road 3801, Block 338, Manama, Bahrain

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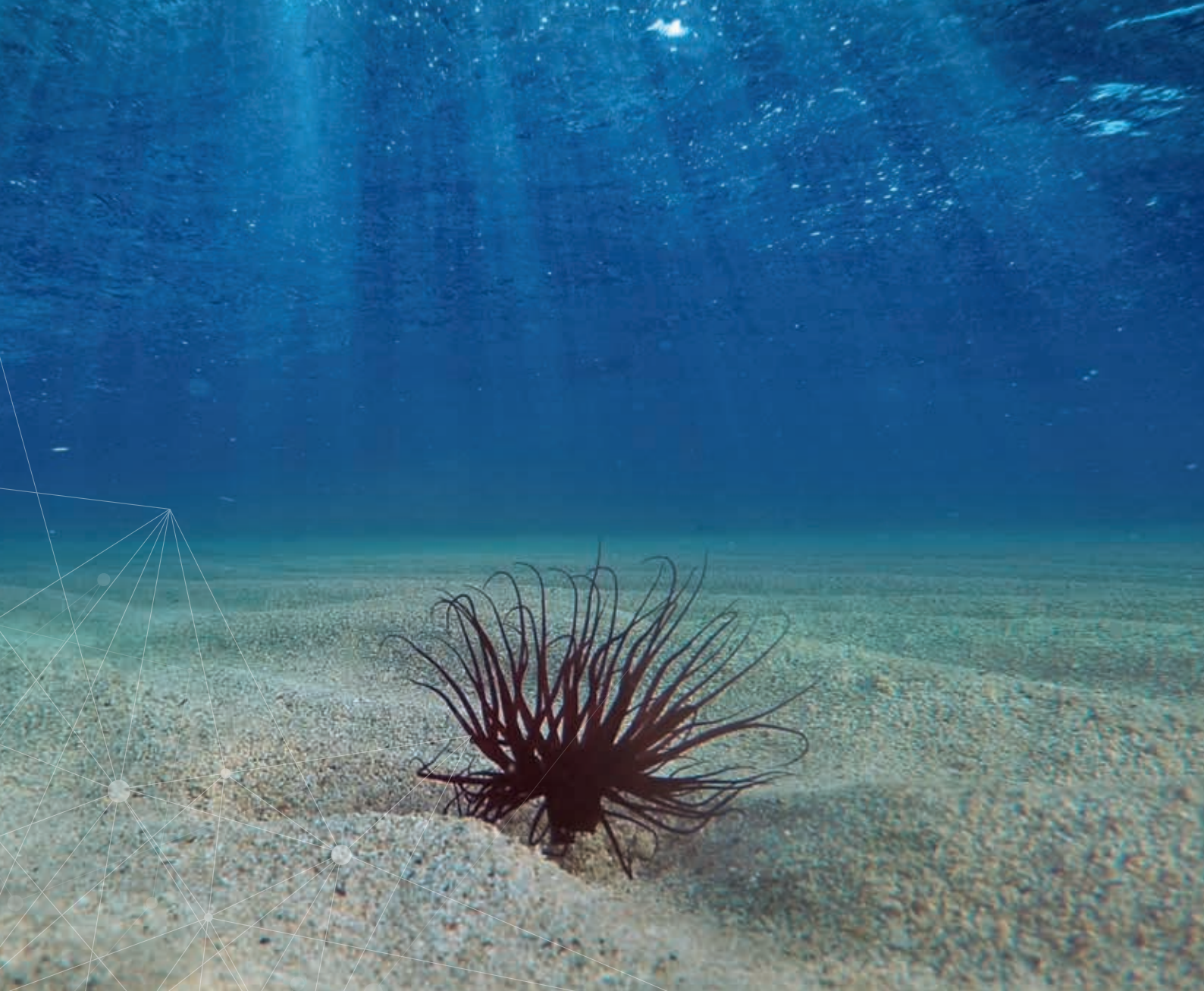
NOTES

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