

French summer
Time

ICES WGFAST 9-12 April 2024, IUEM Plouzané, FRANCE

UTC+2	Tuesday 9 April	
08:15	Bus departure from Nouvelle gare routière, Brest	
08:45	Arrival IUEM	
09:00	Opening	
09:20		
10:00	Posters flash presentations (1 slide per poster & 2 mns of presentation)	
10:20	Session 1: Acoustic Characterization of marine organisms	
10:40	Classification of micronekton Target Strength from a large band acoustic profiler (WBAT) in the Tropical Pacific	Remote - Paul MAGNIER et al.
11:00	Break	
11:20	Estimating Target Strengths of Gulf Stream Mesopelagic fishes using Underwater Vehicles	Jennifer J. JOHNSON et al.
11:40	Effects of pulse duration on nonlinear crosstalk in wideband backscattering measurements	Babak KHODABANDELOO et al.
12:00	Unraveling Variations in Deep Scattering Layers: Insights from the Iberian Peninsula waters and Beyond	Remote - Marian PEÑA
12:20	Improved estimates of krill orientation and target strength spectra	Josiah S. RENFREE et al.
12:40	Lunch	
13:00		
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14:40	Target strength measurements of yellowfin tuna (<i>Thunnus albacares</i>) and acoustic discrimination of three tropical tuna species	Remote - Beatriz SOBRADILLO et al.
15:00	Session 2: Acoustic methods to characterize populations, ecosystems, habitat, and behaviour	
15:10	Individual swimming behavior and groupal orientation patterns of Peruvian anchovy (<i>Engraulis ringens</i>)	Martin Santivañez-Yuffra et al.
15:30	Insights into multiple scattering using a multibeam echosounder from a static position	Benoit TALLON et al.
15:50	Break	
16:20		
16:40	Using passive acoustic to monitor cetacean occurrences: an overview of ten years of studies	Flore SAMARAN et al.
17:00	Uncrewed Surface Vehicle (USV) for acoustic mapping of dolphins and their small pelagic preys	Mathieu DORAY et al.
17:20	Combining acoustic telemetry with archival tagging to investigate the spatial dynamic of the understudied pollack, <i>Pollachius pollachius</i>	Marine GONSE et al.
17:40	Combine passive and active acoustic approaches to the study of prey-predator relationships of blue whales in the southern Indian Ocean	Salomé MARTIN-MARIN et al.
18:00	Cocktail/poster session	
18:30		
19:00		
19:30		
20:00	Bus departure to Nouvelle gare routière, Brest	

UTC+2	Wednesday 10 April	
08:15	Bus departure from Nouvelle gare routière, Brest	
08:45	Arrival IUEM	
09:00	Session 2, followed: Acoustic methods to characterize populations, ecosystems, habitat, and behaviour	
09:20	Scattering layers in Tropical West Pacific: from acoustics to micronekton ecosystems	Remote - Laure BARBIN et al.
09:40	Global characterization of modeled micronekton in biophysically defined provinces.	Sarah ALBERNHE et al.
10:00	A constantly changing acoustic-trawl survey that persistently informs assessments	David DEMER et al.
10:20	Pacific Herring seasonal use of nearshore habitat assessed by moored acoustics and stereo-optics.	Stéphane GAUTHIER et al.
10:40		
11:00	<i>Break</i>	
11:20	Spatial distributions of acoustic scattering groups during the warm-to-cold transition period in the Senegal coastal seascape and their relationships with environmental variables	Viviane DAVID et al.
11:40	Large differences in the distribution of pelagic biomass as a result of sonar frequency choice	Remote - Lloyd IZARD et al.
12:00	A 'donut' method for mitigating bias in fish-school echotrace detection	Yang YANG et al.
12:20	Development of a hydroacoustic technique for determination of the orientation of aggregated Baltic herring	Aleksander ZYTKO et al.
12:40		
13:00	<i>Lunch</i>	
13:20		
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14:20	A method for processing acoustic target tracks to identify behavior of individual Antarctic krill (<i>Euphausia superba</i>) inside a trawl	Laura DIERNAES et al.
14:40	Under the ice: Observing spatial and temporal behaviour of an arctic ecosystem in a West-Greenlandic fjord using multiple acoustic moorings deployed for a year	Kjetil Gjeitsund THORVALDSEN et al.
15:00	SPDE - A novel geostatistical approach to assess sampling uncertainty in acoustic trawl surveys and more...	Sven GASTAUER et al.
15:20	The Capacity of Imaging Sonar for Quantifying the Abundance, Diversity, and Size of Reef Fishes	Edward SIBLEY et al.
15:40	<i>Break</i>	
16:00		
16:20	Acoustic estimation of fish abundance around artificial reefs	Ben SCOULDING et al.
16:40	Linking productivity of the Beaufort Shelf Ecosystem with Coastal Lagoons in Alaska	Julek CHAWARSKI et al.
17:00	Assessing fish space use and habitat connectivity in a context of offshore wind energy development using acoustic telemetry	Lydie COUTURIER et al.
17:20	Real-time estimation of pelagic fish abundance using acoustic methods in the Gulf of Panama	Federico IRIARTE-AHON et al.
17:40		
18:00		
18:30	Bus departure to Nouvelle gare routière, Brest	

UTC+2	Thursday 11 April	
08:15	Bus departure from Nouvelle gare routière, Brest	
08:45	Arrival IUEM	
09:00	Session 3 : Emerging technologies, methodologies, and protocols	
09:20	Surveys of Offshore Wind Areas in the northeast USA Using an Uncrewed Surface Vehicle - the Drix	Mike JECH et al.
09:40	Groundtruthing hydroacoustic signals with environmental DNA in coastal and offshore environments	Maxime GEOFFROY et al.
10:00	Acoustic signature of moults from Antarctic krill (<i>Euphausia superba</i>)	Abigail JR SMITH et al.
10:20	Reconstructing Blue Whiting Patches: A Method to Extract Representative Data from Fishing Vessel Echosounders	Serdar SAKINAN et al.
10:40	Break	
11:00	Investigation of bias in echosounder acoustic surveys using omnidirectional sonar from South to Northwest Africa	Hector PEÑA et al.
11:20	Planning, Analysis, and Reporting of Acoustic-Trawl Method Surveys	Kevin L. STIERHOFF et al.
11:40	AI – A Question of Trust	Geoff MATT
12:00	Improving near-surface pelagic species monitoring in trawl-acoustic surveys	Guillermo BOYRA et al.
12:20	Lunch	
12:40		
13:00		
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13:40	The use of Saildrones to assess the distribution of mesopelagic organisms and their response to the environment in the remote central tropical Pacific	
14:00		
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15:00	Large Scale Survey System (LSSS) becomes open source from January 2025	Réka DOMOKOS et al.
15:20	Echosounder accuracy cannot be assured unless receiver performance is characterized.	Rolf KORNELIUSSEN et al.
15:40	Angle estimation of single and overlapping echoes with broadband split-beam echosounders	Tim RYAN et al.
16:00	Break	
16:20	A ship-to-cloud machine learning pipeline built on the open-source Python Echostack software tools	
16:40		
17:00		
17:20		
17:40	Imaging sonar data analysis with image processing algorithms: improvements, feedbacks and perspectives	Remote - Wu-Jung LEE et al.
18:00	Scalable and Configurable Echosounder Data Workflows	François MARTIGNAC et al.
18:30	The 2023 International Symposium on the State of Art of Habitat Monitoring	Remote - Valentina STANIVA et al.
19:00	Dinner	
22:00	Bus departure to Ateliers des Capucins, Brest	
22:00	Individual return by Telepheric from Ateliers des Capucins (or tramway). 1 ticket provided for people registered for transportation	

URC+2	Friday 12 April			
08:15	Bus departure from Nouvelle gare routière, Brest			
08:45	Arrival IUEM			
09:00	Session 3, followed : Emergine technologies, methodologies, and protocols			
09:20	Combining in situ imagery with acoustic surveys for a comprehensive view of pelagic ecosystems	Benjamin GRASSIAN et al.		
09:40	Comparable estimates of volume scattering from narrowband and broadband echosounder signals	Robert LEVINE et al.		
10:00	First attempt of automatic classification of small pelagic fish echotraces using deep learning in the Bay of Biscay	Cyril PONCELET et al.		
10:20	From raw to Zarr: Increasing data access and exploration in the cloud	Carrie C. WALL et al.		
10:40	<i>Break</i>			
11:00	Behaviour and platform dependent broadband backscattering by physostome fish (<i>Clupea harengus</i> L.) revisited	Geir PEDERSEN et al.		
11:20	Developing a Hybrid Model with Multi-View Learning for Acoustic Classification of Atlantic Herring Schools	Yawen ZHANG et al.		
11:40	Testing acoustic data quality and performance on Sounder USV	Nils Olav HANDEGARD et al.		
12:00	Side workshops informations			
12:20	GAIN: Global Acoustics Interoperable	Tim RYAN & Alejandro ARIZA		
12:40	<i>Lunch</i>			
13:00				
13:20				
13:40				
14:00				
14:20	Business meeting			
	Terms of Reference	Anne LEBOURGES-DHAUSSY		
	Prepare 2025 WGFAST venue (coupled with WGFTFB ?)			
15:40	Closing			
15h45	Bus departure to Nouvelle gare routière, Brest			

POSTERS**Session 2, followed: Acoustic methods to characterize populations, ecosystems, habitat, and behaviour**

Characterization of the fish shoals depending on bottom variables in various ecosystems

Anne MOUGET et al.

Acoustic cameras, a non-invasive approach to monitor whitefish phenology in lakes.

Hervé ROGISSART et al.

Large-scale acoustic telemetry network to monitor fish movements and habitat use in the English Channel

Mathieu WOILLIEZ et al.

Session 3, followed : Emergine technologies, methodologies, and protocols

Autonomous data sampling and analyses for spatiotemporal fish biomass estimates

Astrid CARLSEN et al.

Correction of athwart distortion induced by beam overlap in multibeam sonars

Guillermo BOYRA et al.

The effect of Offshore Windfarms on the distribution, abundance and behaviour of fish

Ross RUTHERFORD et al.

Estimating acoustic biomass of small pelagic fish near sea surface, based on lateral beaming echosounder data

Mathieu DORAY et al.

*TBC**Rolf KORNELIUSSEN et al.*