Opening	Topic:	Opening & Welcome
08:30 -	09:00	Sander von Benda-Beckmann
Session	Topic:	Baleen whale detection and classification
09:00 -	09:15	D. Parry: Latent Diffusion Model Based Spectrogram Augmentation for Improved Baleen Whale Call Detector Robustness
09:15 -	09:30	M. Meister: A Convolutional Neural Network to detect bowhead whale vocalizations in passive acoustic data from the Arctic Ocean
09:30 -	09:45	X. Mouy: Using deep learning and dynamic visualizations to efficiently detect minke whales across the Atlantic Ocean
09:45 -	10:00	A. Napoli: Domain Shift in Passive Acoustic Monitoring
10:00 -	10:30	COFFEE BREAK
Session	Topic:	Detection, classification of echolocation clicks
10:30 -	10:45	K. Merkens: Classification updates for Kogia spp., compared to Narrow-Band High Frequency (NBHF) clicks from other species, and across multiple instrument types.
10:45 -	11:00	E. T. Griffiths: Automatic detection of spectra-banded echolocation clicks in Skagerrak, North Sea
11:00 -	11:15	T. Webber: Diving into Deep Learning to find Risso's dolphins Echolocation Clicks in Scottish Waters
11:15 -	11:30	T. Sakai: Beyond performance - advanced techniques and lessons learned from training a neural network to classify visual representations of beaked whale echolocation clicks
11:30 -	11:45	D. Mellinger: Near-real-time detection of odontocete echolocation clicks from a glider
Poster Speed		Detection, classification of echolocation clicks
11:45 -	-	M. Garcia: Evaluation of an abbreviated, fully unsupervised approach for classification of odontocete echolocation clicks
		Y. Viana: Classification performance in different signal types across odontocete's mixed species groups
		G. Gubnitsky: Fully Automatic Detection and Classification of Sperm Whale Codas
		J. Beesau: Comparing F-POD delphinid and porpoise click detections with ground truth manual annotation
		C. Haas: Using passive acoustic monitoring to investigate northern bottlenose whale (Hyperoodon ampullatus) migration theories within the eastern North Atlantic
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		L Berkenhaum: Anglysis of cachalot dialogues, click by click, an ethogogystical approach
12:00	12.20	L. Berkenbaum: Analysis of cachalot dialogues, click by click, an ethoacoustical approach F. Malige: Tools for the classification of small NBHF species in southern Chile (online)
12:00 -	13:30	
		F. Malige: Tools for the classification of small NBHF species in southern Chile (online) LUNCH & POSTER SESSIONS
Session	Topic:	F. Malige: Tools for the classification of small NBHF species in southern Chile (online) LUNCH & POSTER SESSIONS Detection, classification of North Atlantic Right Whales
Session 13:30 -	Topic: 13:45	F. Malige: Tools for the classification of small NBHF species in southern Chile (online) LUNCH & POSTER SESSIONS Detection, classification of North Atlantic Right Whales L. Ferguson: Bounding Box-Based Object Detection for Whale Vocalizations (online)
Session 13:30 - 13:45 -	Topic: 13:45 14:00	F. Malige: Tools for the classification of small NBHF species in southern Chile (online) LUNCH & POSTER SESSIONS Detection, classification of North Atlantic Right Whales L. Ferguson: Bounding Box-Based Object Detection for Whale Vocalizations (online) S. Jarvis: Automated detection and classification of North Atlantic right whale calls using an ensemble of pair-wise classifiers
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Session 13:30 - 13:45 - 14:00 - 14:15 - 14:30 - 14:45 - 15:00 - Session 15:30 -	Topic: 13:45 14:00 14:15 14:30 14:45 15:00 15:30 Topic: 15:45	EUNCH & POSTER SESSIONS Detection, classification of North Atlantic Right Whales L. Ferguson: Bounding Box-Based Object Detection for Whale Vocalizations (online) S. Jarvis: Automated detection and classification of North Atlantic right whale calls using an ensemble of pair-wise classifiers F. Frazao: An open-source deep learning model for North Atlantic right whale gunshot identification J. Tatarowicz: Neural Network-Based Detection and Classification of North Atlantic Right Whale Upcalls: Performance, Deployment, and Generalization to Unseen Environments E. White: Can one model do it all? Exploring the application of multi-sound source detection algorithms to new marine soundscapes R. Cohen: Learning from birds to find whales: Efficacy of transfer learning for detection and classification of North Atlantic right whale upcalls (online) COFFEE BREAK Detection, classification of Odontocetes using mixed call types S. Fregosi: Considerations when applying classification models across recording platforms: A case study with Hawaiian false killer whales
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Session 13:30 - 13:45 - 14:00 - 14:15 - 14:30 - 14:45 - 15:00 - Session 15:30 - 15:45 - 16:00 - Session 16:15 -	Topic: 13:45 14:00 14:15 14:30 14:45 15:00 15:30 Topic: 15:45 16:00 16:15 Topic: 16:30 16:45 17:00	ELUNCH & POSTER SESSIONS Detection, classification of North Atlantic Right Whales L. Ferguson: Bounding Box-Bosed Object Detection for Whale Vocalizations (online) S. Jarvis: Automated detection and classification of North Atlantic right whale calls using an ensemble of pair-wise classifiers F. Frazao: An open-source deep learning model for North Atlantic right whale gunshot identification J. Tatarowicz: Neural Network- Bosed Detection and Classification for North Atlantic Right Whale Upcalls: Performance, Deployment, and Generalization to Unseen Environments E. White: Can one model do it all? Exploring the application of multi-sound source detection algorithms to new marine soundscapes R. Cohen: Learning from birds to find whales: Efficacy of transfer learning for detection and classification of North Atlantic right whale upcalls (online) COFFEE BREAK Detection, classification of Odontocetes using mixed call types S. Fregosi: Considerations when applying classification models across recording platforms: A case study with Hawaiian false killer whales T. Kleyn: Cumulative prediction yields accurate species ID: presenting new acoustic classifiers for delphinids of the northeast Atlantic Y. Barkley: Fine-tuning acoustic classifiers for false killer whale apollations: Insights from sensitivity analyses (online) Distributed acoustic sensing and autonomous sensors L. Boulflaut: First glimpses into the frequency response of Distributed Acoustic Sensing to blue and fin whale calls as a function of gauge length

- H. Glotin: OPALE: a high resolution multistream audiovisual mobile antenna for cetacean ethoacoustics
- G. Bekki: Detection and localisation of Sperm Whales using multiple hydrophones on several gliders
- D. Risch: Glider-based passive acoustic monitoring of marine mammals
- F. Samaran: Glider and Whales: using acoustic glider to monitor marine mammals
- T. Bertet: SERCEL QuietSea, Development and testing of a harbour porpoise detection buoy in Ramsay Sound, Wales
- A. Pereira: A GAM-based classification of ranges of fin whale calls obtained from single seismic sensors
- V. Premus: Observations Regarding Pile Driving Noise Measurements on a Towed Hydrophone Array
- B. Padovese: From Stationary to Mobile Listening Platforms: Adapting Deep Learning Models for NARW Upcall Detection
- F. Penin: PAMGuard, PAMpal, and R: A Powerful Software Architecture and Its Contribution to the Brazilian Environmental Licensing Process
- M. Torterotot: CETIROISE: a cetacean passive acoustic observatory in a French Marine Natural Park
- M. Dupont: Using passive acoustic to better understand dolphins' behaviour around fishing nets in bycatch context
- J. Girardet: Passive acoustic in Arctic and Mediterranean seas to compare nictemeral rhythms of cetaceans and anthropophony
- A. Allen: Geographical and seasonal occurrence of minke whale boings in the central and western tropical North Pacific (online)

Wednesday Ju		
Session	Topic:	Detection, classification of odontocete whistles
08:30 -	08:45	A. Constaratas: Classification of dolphin whistles from the Adriatic Sea
08:45 -	09:00	R. Diamant: Robustness assessment of a dolphin whistle detector in the Red Sea and on the DCLDE11 dataset
09:00 -	09:15	C. Hargrave: Bottlenose dolphins show clear geographic variation in whistles when controlling for repeated, stereotypical signals
09:15 -	09:30	H. LeBlond: The MIRRF classifier for PAMGuard: Using music information retrieval (MIR) techniques and metadata to differentiate whale calls from shipping noise
09:30 -	09:45	C. Day: Use of machine learning and dynamic time warping to categorise large datasets of bottlenose dolphin whistles
Poster Speed	T Topic:	Detection, classification of odontocete calls
09:45 -	10:00	J. Oswald: How can we improve acoustic classifier performance? A meta-analysis of acoustic species classifiers for odontocetes
		N. van Geel: A preliminary description of Atlantic white-sided dolphin (Lagenorhynchus acutus) vocalisations
		A. Berg: Phase Locked Loops to track harmonic calls in frequency and space
		C. Biermann: A transfer learning approach for unsupervised whistle categorisation
		E. McCloskey: Inter burst-pulse interval as a species indicator for Pacific delphinids
		R. Miralles: Dolphin whistle contour extraction in a noisy environment using the pyknogram representation
		V. Janik: Intraspecific geographic variation of rough-toothed dolphin whistles and its influence on acoustic classification
10:00 -	10:30	COFFEE BREAK
Session	Topic:	Detection and classification of multiple species
10:30 -	10:45	M. Baumgartner: Detection and classification of marine mammal sounds over a wide band of frequencies
10:45 -	11:00	L. Kitchell: Advancing Automated Acoustic Monitoring through Self-Supervised Learning: Applications in Marine Mammal Detection and Classification
11:00 -	11:15	M. Thomas: Not just research: operational use of deep learning models for PAM
11:15 -	11:30	G. Dubus: Improving automatic detection with supervised contrastive learning: application with low-frequency vocalizations
11:30 -	11:45	D. Woodrich: A generalized deep-learning approach for difficult signal detection challenges in passive acoustic datasets (online)
Poster Speed	T Topic:	Detection, classification of baleen whales
11:45 -	12:00	G. Dubus: First attempt at building a mini DCASE-like data challenge for the DCLDE workshop
		T. Yack: Evaluating Temporal and Spatial Variability in North Atlantic Right Whale Upcall Detection and Classification Performance Over a 13-Year Period using PAMGuard Software
		T. Awbery: The Application of a North Atlantic-wide Minke Whale Detector to a Large-Scale Recording Array on the West Coast of Scotland
		P. Dugan: Fin Whale 20Hz Inner Note Interval-Gram (20Hz INI-Gram)
		D. Lechner: Evidence of Synchronized Calls of Likely Balaenoptera Musculus
		C. Parserisas: A new deep learning model evaluated on the Antarctic benchmark for baleen whale calls
		S. Chavin: Time-Frequency Exploration of the Repertoire and Evolution of Humpback Whale Sonas in the Caribbean Sea

Session	Topic:	Artificial intelligence, machine learning and data management
13:30 -	13:45	M. Roch: Data Management for Detection, Classification, and Localization
13:45 -	14:00	L. Transue: Automatic detection of humpback whale calls: a comparison between a machine-learning convolutional neural network (CNN) detector and the Low-Frequency Detection Classification System (LFDCS)
14:00 -	14:15	A. Olcay: Deep Learning-Based Underwater Sound Classification Using Stacked Cepstral Features
Discussion	Topic:	Artificial intelligence, machine learning and data management
14:15 -	15:00	Discussion
15:00 -	15:30	COFFEE BREAK
15:30 -	17:30	SOCIAL EVENT

Thursday Jun		
Session	Topic:	Special session dedicated to Prof. Gianni Pavan
08:30 -	08:45	W. Zimmer: Introduction
08:45 -	09:00	W. Zimmer: Signal Processing Considerations for use of compact Volumetric Acoustic Sensors
09:00 -	09:15	R. Machado: The first step in the acoustic classification of beaked whales in the Amazon Mouth Basin
09:15 -	09:30	L. Garrobé: Using Variational Auto-Encoders and Temporal Convolutional Networks to classify bioacoustics data from a weakly labelled training set
09:30 -	09:45	C. Martin: Rough-toothed dolphin exposures to U.S. Navy mid-frequency active sonar at the Pacific Missile Range Facility, Hawai'i
Poster Speed T Topic:		Application of DCL
09:45 -	10:00	J. Rychen: Communication of killer whales engaging in carousel feeding recorded with a large baseline hydrophone array
		S. Espirito Santo: An Initiative for whale Detection in the Santos Basin, Brazil: Through Passive Acoustic Methods
		X. Raick: Preliminary investigation of odontocete acoustics in French Polynesia
		G. Jankauskaite: Leveraging citizen science in passive acoustic monitoring of cetaceans
		W. Decrop: Classifying vessels and co-occurance with mammals using CNNs based on underwater acoustics
		R. Morrissey: Deep Ocean Prey Mapping from bottom mounted bidirectional nodes
		S. Tabutt: CAB Guardian: Detections and Bearings from a 3 Month Deployment
10:00 -	10:30	COFFEE BREAK
Session	Topic:	Localisation using large baseline arrays
10:30 -	10:45	E. Nosal: ATDOA (asynchronous time difference of arrival): TDOA-based method to localize multiple sound sources using autonomous receivers
10:45 -	11:00	P. Gruden: MAMBAT: a framework to track and localize multiple marine mammals with wide baseline, stationary arrays
11:00 -	11:15	L. Tenorio-Hallé: Passive acoustic tracking of Rice's whales in the northeastern Gulf of Mexico using a wide-baseline array (online)
Session	Topic:	Density estimation of odontocetes
11:15 -	11:30	J. Macauley: The influence of toothed whale behaviour on detection probability and the implications for passive acoustic monitoring
11:30 -	11:45	I. Bopardikar: Density estimation of Indo-Pacific finless porpoises using passive acoustic monitoring off the Sindhudurg coast of India
11:45 -	12:00	H. Myers: Four years of daily acoustic abundance estimates of fish-eating and mammal-eating killer whales in the Gulf of Alaska

12:00 -	13:30	LUNCH & POSTER SESSIONS
Session	Topic:	Density estimation of baleen whales
13:30 -	13:45	D. Harris: Adapting distance sampling to account for non-ranging instruments: an example with Ocean Bottom Seismometer data for baleen whale density surface estimation
13:45 -	14:00	Y. Doh: Using stereophonic passive acoustics to study humpback singers' interactions
14:00 -	14:15	F. Petersma: Using acoustic spatial capture recapture to estimate call density of Bowhead whales when many detections are false positives
14:15 -	14:30	K. Seger: Bearing method for density estimation: a comparison of performance using CTBTO data at Wake Island and Diego Garcia
Session	Topic:	Localisation of North Atlantic Right Whales using the DLCDE2024 dataset
14:30 -	14:45	C. Binder: Listening to whales from the sky: How Royal Canadian Airforce sonobuoy data contributes to detection, classification, localization, and density estimation research (online)
14:45 -	15:00	L. Hsu: Localization of North Atlantic Right Whales (NARWs) in the Gulf of St. Lawrence using Passive Acoustics
15:00 -	15:30	COFFEE BREAK
Session	Topic:	Localisation of North Atlantic Right Whales using the DLCDE2024 dataset (continued)
15:30 -	15:45	B. Miller: Analysis of the DCLDE 2024 North Atlantic right whale sonobuoy dataset using PAMGuard
15:45 -	16:00	K. Thebeau: Localizing North Atlantic Right Whales Using a Deformable Sonobuoy Grid
16:00 -	16:15	R. Gehrmann: North Atlantic right whale detection and localisation using deep learning, nonlinear Bayesian inversion, and sound propagation modelling (online)
16:15 -	16:30	A. von Benda-Beckmann: Bayesian localisation of NARW using an autonomous field of sonobuoys
Discussion	Topic:	Localisation of North Atlantic Right Whales using the DLCDE2024 dataset
16:30 -	17:30	Discussion

Friday June 7		
Session	Topic:	Localisation using compact arrays
08:30 -	08:45	A. Laferriere: Three-dimensional localization of dolphin sounds from an underwater drifter using short-aperture arrays and acoustic vector sensors
08:45 -	09:00	L. Baggett: Diving Deep: 3D Tracking of Cuvier's Beaked Whale Diving Behavior in Southern California using Fixed Hydrophone Arrays
09:00 -	09:15	H. Frouin-Mouy: Diving behavior and acoustic-based detection range inferred from three-dimensional tracking of beaked whales in the Gulf of Mexico
09:15 -	09:30	I. Urazghildiiev: Estimating the number of animals, animal tracks and the motion parameters of vocalizing marine mammals using compact hydrophone arrays
Poster Speed T Topic:		Localisation, calling rates, and density estimation
09:30 -	10:00	J. Theriault: North Atlantic Right Whale (NARW) Line-Array Beamformer Performance using Energy Detection and Pitch-Tracking Classification Metrics
		L. Lehnhoff: Free-ranging bearing joint to vocal analysis: application to whistles of short-beaked common dolphins
		R. Dréo: Trajectory estimate of baleen whales using a single OBS in the Indian Ocean
		J. McCullough: Combining visual and acoustic subgroup localization efforts to examine movement of false killer whales
		A. Carroll: Vocal Behavior of Visually-Verified North Atlantic Minke Whales off Jacksonville, Florida, in Winter
		J. Mura: Synchronous aerial and acoustic surveys to estimate porpoise emission rate
		I. Tolkova: Localization-Derived Acoustic Detection Function for Cuvier's Beaked Whales Offshore Guam
		K. Gkikopoulou: Does the beam pattern matter? Impacts of different assumptions on off axis source level of echolocating clicks for PAM density estimation of deep diving species
		L. Thomas: Right whale call density estimates from the workshop dataset via spatial capture-recapture
		R. Hilmo: Applying distance sampling to estimate densities of fin whale calls recorded by ocean bottom seismometers in the Marianas region
		G. Arrieta: Calling Behavior and Localization of Blue Whales in Southern California
10:00 -	10:30	COFFEE BREAK
Session	Topic:	Localisation of marine mammals
10:30 -	10:45	G. Alongi: Strengths and weaknesses of using DCLDE algorithms to track baleen whales and examine their behavior using long-term acoustic recordings with a large-scale hydrophone array

10:45 -	11:00	M. Matei: Cetacean multi-species detection, classification, localization, and contact collation routine using PAMGuard
11:00 -	11:15	A. Pereira: A comparison of methods to estimate ranges of fin whale calls using seismic data
Discussion	Topic:	Contact association in localisation of marine mammals
11:15 -	12:00	Discussion
12:00 -	13:30	LUNCH & POSTER SESSIONS
Session	Topic:	Density estimation of marine mammals
13:30 -	13:45	S. Parks: Validation of Passive Acoustic Density Estimation Approaches for Southern Right Whales (Eubalaena australis)
13:45 -	14:00	A. Cook: Estimating Rice's Whale (Balaenoptera ricei) Call Density in the Northeastern Gulf of Mexico Using Spatially Explicit Capture-Recapture Analysis
14:00 -	14:15	T. Marques: ACCURATE passive acoustic monitoring density estimation: are we there yet?
Discussion	Topic:	Density estimation of marine mammals
14:15 -	15:00	Discussion
15:00 -	15:30	COFFEE BREAK
Discussion	Topic:	Closing of DCLDE2024 & Outlook to DCLDE2026
15:30 -	16:00	Discussion
16:00		WORKSHOP CLOSED