

34th ECS Conference “Our Oceans Our Future” Scientific Program April 18th – April 20th 2023



TUESDAY APRIL 18th 2023

Opening Ceremony: 8:45-9:15

Keynote 1: Tuesday April 18th 2023 9:15-10:15

Marine Mammals, Humans, and Nature	Bernd Würsig
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Session A1: Tuesday April 18th 2023 10:15-11:00 ECOLOGY

Start	End	Title	Author	Format
10:15	10:30	Where there's a whirl there's a whale: habitat partitioning in mesoscale features	Ashlyn Giddings	ORAL
10:30	10:45	Out of Habitat Marine Mammals - Challenges and Solutions	Mark Peter Simmonds	ORAL
10:45	11:00	Why did so many common dolphins strand along the French coasts of the Bay of Biscay? From the sky and on the beaches, overview of recent knowledge.	Helene Peltier	ORAL

COFFEE BREAK 11:00-11:30

Session A2: Tuesday April 18th 2023 11:30-13:15 ECOLOGY

11:30	11:45	Identification of cetacean species in multi-purpose surveys using environmental D metabarcoding and visual monitoring	Miguel Álvarez-González	ORAL
11:45	12:00	Comparative trophic ecology of deep-diving toothed whales	Jesús Alcázar-Treviño	ORAL
12:00	12:15	Temporal variability of prey species for cetaceans in a Scottish marine protected area with environmental D	Elizabeth Boyse	ORAL
12:15	12:30	Disentangling whale diets in the Azores feeding area	Cristina Claver	ORAL
12:30	12:45	Hidden gems? A multi-method approach to study the diet of harbour porpoises (<i>Phocoena phocoena</i>) in the southern North Sea	Eileen Hesse	ORAL
12:45	13:00	Nutrient concentrations in minke whale faeces and the potential impact on dissolved nutrient pools off Svalbard, Norway	Carla Freitas	ORAL
13:00	13:05	Climate-related changes in marine mammals occupancy and human activities in the Central Arctic Ocean	Mario Acquarone	SHORT
13:05	13:10	Health condition, trophic ecology and mercury relationships of two small delphinid species with temporal segregation in the Madeira oceanic habitat: preliminary analysis from a multimethodological approach	Filipe Alves	SHORT
13:10	13:15	Preliminary investigation into the effect of harbour porpoise (<i>Phocoena phocoena</i>) faeces on marine phytoplankton growth	Frank Zanderink	SHORT

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LUNCH BREAK 13:15-14:45

Session B: Tuesday April 18th 2023 14:45-16:00 CONSERVATION

14:45	15:00	What's happening to the Harbour Porpoise; decreasing abundance across all of Ireland's Special Areas of Conservation (SACs)	Joanne O'Brien	ORAL
15:00	15:15	Prediction of Potentially Usable Habitat to set the thresholds for Marine Strategy Framework Directive noise descriptors: the QuietMED/QuietSEAS methodology	Arianna Azzellino	ORAL
15:15	15:30	Setúbal Deepening: monitoring a major dredging operation in bottlenose dolphin habitat	Manuel E. dos Santos	ORAL
15:30	15:45	SPACEWHALE: Using satellite imagery to survey whales in remote areas and thus to enhance conservation efforts	Julika Voß	ORAL
15:45	15:50	Contribution of European stranding networks to understanding and quantifying marine mammal bycatch mortality	Andrea Fariñas-Bermejo	SHORT
15:50	15:55	Acoustic identification of an important floodplain habitat for the Amazonian manatee (<i>Trichechus inunguis</i>) in a Brazilian protected area	Florence Erbs	SHORT
15:55	16:00	How to detect the impact of multiple stressors in cetaceans inhabiting the Mediterranean sea: the first time use of exposomics	Maria Cristina Fossi	SHORT

POSTER SESSION A (Even Poster #) + COFFEE BREAK (Poster Hall)

Session C: Tuesday April 18th 2023 17:30-19:15 GENETICS/EVOLUTION

17:30	17:45	Fine scale population genomics of the bottlenose dolphin off Western Iberia (northeast Atlantic)	Rita O. Afonso	ORAL
17:45	18:00	New insights on the critically endangered population of bottlenose dolphins from Sado estuary (Portugal)	Inés Carvalho	ORAL
18:00	18:15	Morphological evolution of cetacean humerus shows functional and phylogenetic signals	Svitozar Davydenko	ORAL
18:15	18:30	Population identity of North Atlantic humpback whales: an ocean-wide analysis of genetic population structure	Mario Gabualdi	ORAL
18:30	18:45	Phenotypes Lost: evolution by loss and the adaptation of Cetacea to aquatic environments	Filipe Castro	ORAL
18:45	19:00	Genomics reveal contrasting patterns of population structure in two cryptic oceanic dolphins (<i>Lagenorhynchus acutus</i> and <i>Lagenorhynchus albirostris</i>)	Marc-Alexander Gose	ORAL
19:00	19:05	The last piece of the puzzle: a broad population genomics study in <i>Globicephala macrorhynchus</i>	Raul Valente	SHORT
19:05	19:10	Molecular adaptations to hypoxia in the muscle transcriptome of parasitic infested harbour porpoises (<i>Phocoena phocoena</i>)	Eda Dönmez	SHORT
19:10	19:15	Glacial refugium for killer whales off Japan revealed through genetic and cultural evidence	Olga Filatova	SHORT

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WEDNESDAY APRIL 19th 2023

Keynote 2: Wednesday April 19th 2023 8:45-9:45

Deep Knowledge Needed for Ocean Protection

Natacha Aguilar de Soto

Session D: Wednesday April 19th 2023 9:45-11:00 NEW TECHNOLOGIES

9:45	10:00	Short-term movement patterns of Cuvier's beaked whales <i>Ziphius cavirostris</i> in the Western Mediterranean Sea inferred from telemetry data	Anna Borroni	ORAL
10:00	10:15	Fin whale satellite telemetry to enhance place-based conservation efforts and mitigate threats in the North-Western Mediterranean Sea	Viola Panigada	ORAL
10:15	10:30	Using UAS-photogrammetry to monitor the age-structure and growth curve of a critically endangered Mediterranean subpopulation of bottlenose dolphins	Fabien Vivier	ORAL
10:30	10:45	Using neural network to determine the variation in the dorsal fin's morphology within Killer whale ecotypes	Mohamed Ismail	ORAL
10:45	10:50	Risso's dolphins (<i>Grampus griseus</i>) use social calls during deep daytime foraging	Sanne Hessing	SHORT
10:50	10:55	Dolphin anatomy and virtual reality: exploring open source and free 3D software tools	Steffen De Vreese	SHORT
10:55	11:00	Fixed-wing drones for monitoring cetaceans: a pilot study in the Pelagos Sanctuary (north-western Mediterranean Sea)	Sabina Airoidi	SHORT

COFFEE BREAK 11:00-11:30

Session E: Wednesday April 19th 2023 11:30-13:15 BEHAVIOUR

11:30	11:45	Parentage, polygamy, and reproductive success in beluga whales from Bristol Bay, Alaska	Gregory O'Corry-Crowe	ORAL
11:45	12:00	Decision-making in a different dimension: the challenges of aquatic mammals when making collective decisions	Elizabeth Zwamborn	ORAL
12:00	12:15	A gaze into the abyss: sperm whales echolocating behavior during the descent phase	Olivia Marín Delgado	ORAL
12:15	12:30	Grouping dynamics of mother-calf pairs of common dolphins in the South coast of Portugal	Joana Castro	ORAL
12:30	12:45	Exploring the relation between habitat and reproductive success in wild common bottlenose dolphins (<i>Tursiops truncatus</i>)	Séverine Methion	ORAL
12:45	13:00	Migratory behaviour of Atlantic baleen whales in a changing world	Mick Baines	ORAL
13:00	13:05	Using underwater cameras to assess dolphin-trawler interactions: evaluation of bottlenose dolphin (<i>Tursiops truncatus</i>) underwater behaviour interacting with trawl nets in the Mediterranean Sea	Natalia Amigo	SHORT
13:05	13:10	Effect of body size on respiration rates, swim speed, and nursing duration of white-beaked dolphin calves in Skjálfandi Bay, Iceland	Silvia Naomi Sophie Ruppert	SHORT
13:10	13:15	Reproductive parameters of a critically endangered Mediterranean subpopulation of bottlenose dolphins (<i>Tursiops truncatus</i>).	Carmen Andres	SHORT

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LUNCH BREAK 13:15-14:45

Session F: Wednesday April 19th 2023 14:45-16:00 MODELLING

14:45	15:00	Estimating bycatch at regional scale in the MFSD context: Adapting carcass drift modelling to common dolphins in the Iberian Peninsula	Camille Deslias	ORAL
15:00	15:15	S.T.R.E.S.S. - Statistical Toxicological Risk Elaboration System in <i>Stenella coeruleoalba</i> : which is the potential hazard associated with organochlorines in the Mediterranean subpopulation?	Francesca Capanni	ORAL
15:15	15:30	Population viability analysis for harbour porpoise and common dolphin in the Iberian Peninsula, incorporating fishery bycatch mortality and expected effects of PCB bioaccumulation on individual fecundity	Diego Fernández-Fernández	ORAL
15:30	15:45	Forecasting climate-induced distribution shifts in the sexually dimorphic Antarctic fur seal	Luis Cardona	ORAL
15:45	15:50	Machine learning algorithm selection for modelling striped dolphin (<i>Stenella coeruleoalba</i>) distribution in the Adriatic and Ionian Seas	Qi-fan Wu	SHORT
15:50	15:55	Modelling prey availability of the Mediterranean monk seal (<i>Monachus monachus</i>) along a gradient of marine protection	Ashlie McIvor	SHORT
15:55	16:00	Cetacean energyscapes and biomass consumption of forage resources in the Mediterranean Basin	Charlotte Lambert	SHORT

POSTER SESSION B (Odd Poster #) + COFFEE BREAK (Poster Hall)

Session G: Wednesday April 19th 2023 17:30-19:15 HEALTH

17:30	17:45	Allocation and use of body energy reservoirs in striped dolphins (<i>Stenella coeruleoalba</i>) and Blainville's beaked whales (<i>Mesoplodon densirostris</i>): the snowball effect in negative energetic balances.	Yara Bernaldo de Quiros	ORAL
17:45	18:00	Are Kogia sp. whales hiding a secret concerning anisakid biodiversity?	Paolo Cipriani	ORAL
18:00	18:15	Natural selection in cetacean species immunogenome in relation to Morbillivirus exposure	André Moura	ORAL
18:15	18:30	Molecular biomarkers to evaluate the exposure to emerging contaminants in fin whale and striped dolphin from the North-Western Mediterranean Sea	Cristina Panti	ORAL
18:30	18:45	Histological Assessment of Harbour Porpoise Ovaries; Insights into Lifetime Reproductive Output	Mariel T.I. ten Doeschate	ORAL
18:45	19:00	First steps towards developing a welfare assessment framework for stranded cetaceans	Rebecca Boys	ORAL
19:00	19:05	Screening for influenza and morbillivirus in seals and porpoises in the Baltic Sea-North Sea region	Iben Stokholm	SHORT
19:05	19:10	Viral skin diseases in odontocete cetaceans: gross, histopathological, and molecular characterization of selected pathogens	Simone Segura Göthlin	SHORT
19:10	19:15	Implications of non-lethal entanglement and parasite load on Icelandic minke whales using scar-based analysis	Miguel Pisco	SHORT

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THURSDAY APRIL 20th 2023

Keynote 3: Thursday April 20th 2023 8:45-9:45

The business of annihilation: 20th century whaling in the Iberian Peninsula

Alex Aguilar

Session H: Thursday April 20th 2023 9:45-11:00 ABUNDANCE AND DISTRIBUTION

9:45	10:00	Estimating demographic parameters for a Bahamian population of melon-headed whales (<i>Peponocephala electra</i>) on a US navy testing range	Diana Vieira	ORAL
10:00	10:15	Winter and summer cetacean distribution and relative abundance in Irish waters with data obtained from aerial surveys	Oriol Giralt Paradell	ORAL
10:15	10:30	Testing methodologies for range/habitat assessment of three low density cetacean species in the Mediterranean Sea	Antonella Arcangeli	ORAL
10:30	10:45	Monitoring framework to define local cetacean population and estimate demographic parameters: the case of short finned pilot whales in Madeira	Philippe Verborgh	ORAL
10:45	10:50	Summer distribution of harbour porpoises in Irish waters using aerial survey data	Tiffany Goh	SHORT
10:50	10:55	A better understanding of bottlenose dolphins (<i>Tursiops truncatus</i>) population structure in Irish waters	Lorenzo De Bonis	SHORT
10:55	11:00	New abundance estimate of Mediterranean fin whales	Céline Tardy	SHORT

COFFEE BREAK 11:00-11:30

Session I: Thursday April 20th 2023 11:30-13:15 ACOUSTICS

11:30	11:45	Call type combination patterns in Icelandic killer whales	Anna Selbmann	ORAL
11:45	12:00	Bio-inspired acoustic beacons to limit fishery by-catch of common dolphins <i>Delphinus delphis</i>	Bastien Mérigot	ORAL
12:00	12:15	The power of talk: vocal communication and social context in wild bottlenose dolphins	Bruno Díaz López	ORAL
12:15	12:30	The need for ACCURATE cue rates in passive acoustic density estimation	Tiago Marques	ORAL
12:30	12:45	Vessel noise exposure impacts harbour porpoise energy balance	Laia Rojano-Doñate	ORAL
12:45	13:00	Individually-specific calling in East Greenland narwhals (<i>Monodon monoceros</i>)	Audra Ames	ORAL
13:00	13:05	What's in a Whistle? Towards accurate acoustic classification of UK delphinid species	Tristan Kleyn	SHORT
13:05	13:10	Seasonal and diel patterns in Black Sea harbour porpoise acoustic activity in 2020-2022	Julia Ivanchikova	SHORT
13:10	13:15	Sound production during feeding by Icelandic herring-eating killer whales	Giorgia Giovannini	SHORT

LUNCH BREAK 13:15-14:45

ECS AGM AND WORKSHOP PRESENTATIONS 16:00-17:45