



Underwater Noise Background & Application Training Course

A two-day course on underwater acoustics, noise impacts and sound propagation modelling workshop.

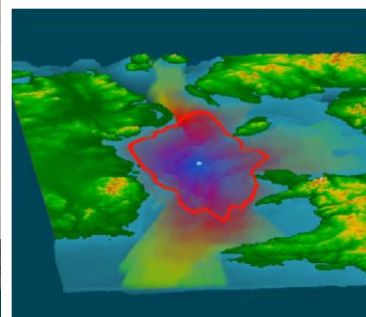
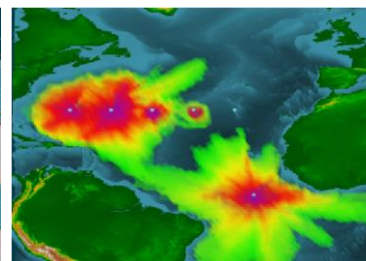
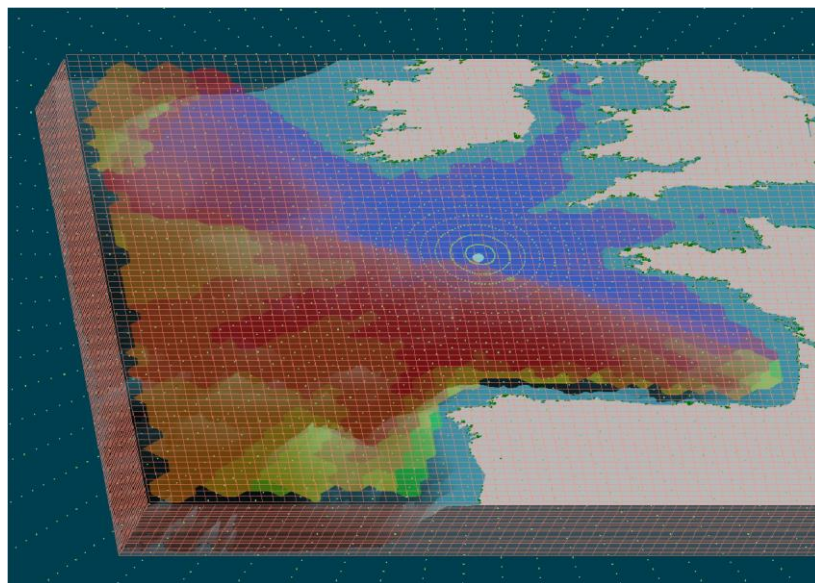
Venue
Belfast
Northern Ireland

Date
17-18 November
2016

Course Cost
£ 650

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Course Focus



- Understanding of the underlying physics governing underwater noise.
- Noise impacts on the aquatic fauna.
- Marine legislation, financial implications & best practices
- Advanced sound propagation modelling to assess environmental impact.

Two days

So much to cover

Day one

Background & theoretical foundation

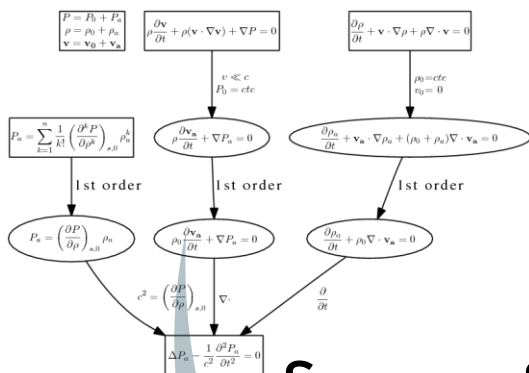
- Sound propagation physics
- Noise characteristics
- Biological effects
- Legislation

Day two

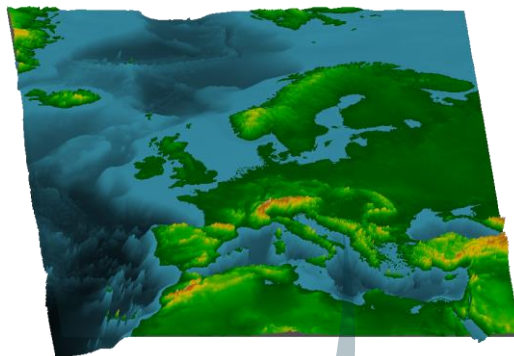
Noise propagation modelling workshop

- Why & what is it?
- Practical modelling
- Propagation algorithms
- Application

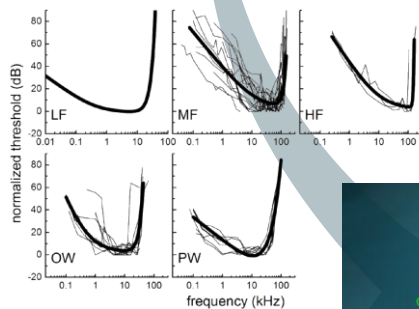
Theory



Bathymetry

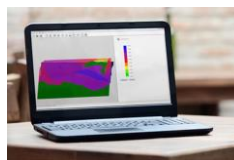


Science

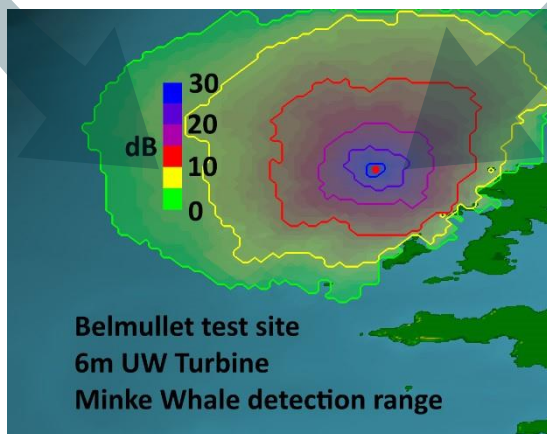
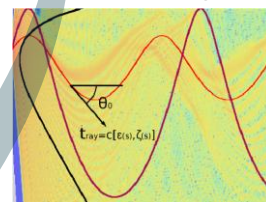


§ Legislation §

IT

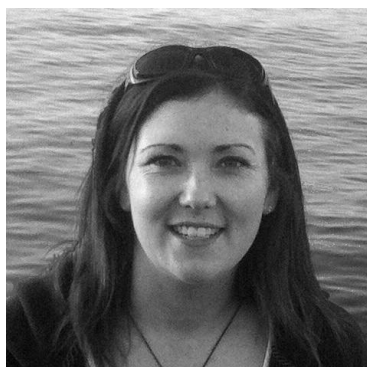


Modelling



Realistic impact assessment

Course Facilitators



Dr Joanne O'Brien
Scientist at GMIT
PhD Small Cetaceans
Co-author of multiple
MSFD reports
Conservation officer with
IWDG



Dr Martin Keane
Noise Consultant &
Programmer
PhD Mechanical
Engineering & Acoustics
Key dBSea Developer



Rasmus Sloth Pedersen
Marine Noise Specialist
MSc Bioacoustics &
Cetacean Physiology
Commercial Diver

Guest Speakers

We are finalising the choice of guest speakers to make sure we achieve the best possible coverage and balance of topics.

We want to bring in people with relevant stories from the industry with interesting stories that are passionate about their work and communicates engagingly about experiences and challenges they face.

In our last course Ray Alcorn from Exceedence set the scene with stories of a “wild west” beginning of marine renewables in Ireland, sharing the past mistakes and lessons learnt with us.

Amanda Robinson of Marshall Day Acoustics showed us untraditional cases where underwater noise assessments played a crucial role in the impact assessment, including wave energy device demolition and coral reef salvage operations.