

TRASMARES: MOOC 1 - INNOVATIVE METHODS TO ASSESS THE DISTRIBUTION OF MARINE ECOSYSTEMS

ACTIVITY	YOUTUBE URL
MODULE 0. Introduction to the course	
Presentation of the course	https://youtu.be/NtgyIjYsKg4
MODULE 1. Introduction to marine ecosystems	
Marine ecosystems: types and definitions	https://youtu.be/6QkC6kg_rvk
Saltmarshes	https://youtu.be/y1ZmVWiiQCg
Seagrass meadows	https://youtu.be/zWbCBtUF_4E
Mangroves	https://youtu.be/iok3iU82714
Sand dunes	https://youtu.be/EMZrnL3woWo
Biogenic reefs	https://youtu.be/d_w3wIts974
Coral reefs	https://youtu.be/CD6mLw0pvuw
Rocky coasts	https://youtu.be/eJiil8uP8EA
Soft bottoms	https://youtu.be/mMntmYIMMs
MODULE 2. Marine ecosystems characterization	
Introduction to Module 2	https://youtu.be/6MWivjOKEK8
Approaches to biodiversity characterization	https://youtu.be/pPLqsQKWw40
Genetic diversity	https://youtu.be/T3egvZr-P1g
Species diversity	https://youtu.be/61b1XtKHKs
Functional diversity	https://youtu.be/d72TODCaR7c
Landscape diversity	https://youtu.be/Fz2bAYs3qtA
Biogeographical patterns	https://youtu.be/DP2IOhKO3GU
Vertical zonation of marine species at local scales	https://youtu.be/WHhz7QNlvcY
Temporal scale in species distribution: Phenology	https://youtu.be/RMLX33SNO-4
MODULE 3. Functions, services and benefits of marine ecosystems	
Introduction to Module 3	https://youtu.be/4y0g0BW1RGo
Ecological processes: functions, services and benefits	https://youtu.be/92polZY4TOs
Interview: From the "Millennium ecosystem assessment" to the "Sustainable development goals"	https://youtu.be/Eoii_eUmWr8
Survey: Do we know what the marine ecosystem services in our surroundings are?	https://youtu.be/TeijicrhqWo
Ecosystem services classifications	https://youtu.be/ZH2EvXR6nik
Classification of estuarine ecosystem services using CICES	https://youtu.be/JUHAAUh-vpU
Biophysical quantification of ecosystem services	https://youtu.be/3c8ix6Y6FjA
Monetary quantification of ecosystem services	https://youtu.be/6-E9BfgcAlg
Interview: Cultural services (with Tasman Crowe and John Brannigan from UCD)	https://youtu.be/sNx--LndPiY
MODULE 4. Direct approaches to characterize the distribution of ecosystems	
Introduction to Module 4	https://youtu.be/tP3chQdjiGw
Traditional sampling techniques	https://youtu.be/oAslpP6yZ7k
Quantifying the distribution of commercially important species	https://youtu.be/5_SGK8rR93l
Fundamentals and applications of remote sensing	https://youtu.be/dUqMEASgau4
Quantifying estuarine vegetation	https://youtu.be/VH0IHVrt6yQ
Global databases of marine biological and physical information	https://youtu.be/-qD8Gku2FXs
How to use a global database	https://youtu.be/3qj6nOBvaFQ
Interview: Challenges in sharing marine ecosystem information (with Joana Beja from VLIZ) EXTRA INFORMATION: How to use	https://youtu.be/Hu-NcNjIGd4
Real time monitoring of marine ecosystems	https://www.youtube.com/watch?v=GXYL12faMx8&t=2s
ARMS (Autonomous Reef Monitoring Structure)	https://youtu.be/aTaPgD-4Oml
From data to decision support through digital solutions	https://youtu.be/gmwzezOwsCA
Interview: A new approach: citizen science and marine observatories (with Joaquim Garrabou from ICM)	https://youtu.be/VBISOKn7W-M
MODULE 5. Indirect approaches to characterize the distribution of ecosystems	
Introduction to Module 5	https://youtu.be/grZ7Rvhx14o
Species distribution modelling: Ecological niche concept	https://youtu.be/LxzxH6uuivE
Types of Species Distribution Models (SDMs)	https://youtu.be/R33JlQ2LByo
SDM applications	https://youtu.be/gVBuHGtVJAQ
Distribution modelling of macroalgae populations	https://youtu.be/nlpEUfwz_AA
Approaches to marine classification based on biophysical characteristics	https://youtu.be/rdAQUlIijQY
Classification of NE Atlantic coasts and New Zealand estuaries	https://youtu.be/605ldk4uZ3l
Characterizing distributions: field and laboratory experiments	https://youtu.be/bcwKEhVvNvs
Application based on field experimentation	https://youtu.be/wmGE4jldVUs
Application based on laboratory experimentation	https://youtu.be/YwJ1u1q-OE
Application based on mesocosm experimentation	https://youtu.be/xm3pw23Mlxs
PRACTICAL EXERCISE: Case study (how to apply a SDM)	https://youtu.be/AqDMDRSw_lc