

REDRESS - DIGI4ECO
2024 Summer school on marine restoration and digital twin

Monday 10/06

08:30	Lecture	Intro to 2024 REDRESS-DIGI4ECO Summer school/ Safety Intro	L. Thomsen (Ugot)
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10:00	Lecture	Ecol. monitoring principles and objectives	J. Aguzzi & D. Chatzievangelou (ICM)
Coffee break			
10:30	Lecture	REDRESS project intro	J. Grinyó (ICM)
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12:00	Lecture	DIGI4ECO project intro	J. Aguzzi (ICM)
Lunch			
13:00			
-	Activity	Field work	Begin ROV Operations
16:00			
Coffee break			
15:30			
-	Field	Field work, preparation Crawler	Sediment sampling and ROV work
18:00			
Dinner			
19:00			
-	Discussion	Briefing for next day and wrap up	
20:00			

Tuesday 11/06

08:30			
-	Lecture	Intro to Bratten and Gullmarsfjord	E. Hammenstig Åström & Patrik Jonsson (SLU), L. Thomsen (Ugot)
10:00			
Coffee break			
10:30	Lecture	Intro to Catalan MPAs	N. Bahamon (ICM)
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12:00	Lecture	Intro to organism handling	J. Grinyó (ICM)
Lunch			
13:30	Lecture	Deep-Sea mining and restoration	L. Thomsen/T. Dahlgreen
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15:00	Lab	Animal handling & tagging	J. Grinyó & J. Aguzzi (ICM)
Coffee break			
15:30			
-	Field	ROV work	D. Chatzievangelou & J. Aguzzi (ICM),
18:00			
Dinner			
19:00			
-	Discussion	Briefing for next day and wrap up	
20:00			

Wednesday 12/06

08:30			
-	Lecture	Monitoring technologies	D. Toma & M. Francescangeli (UPC), G. Picardi (ICM)
10:00			

Coffee break			
10:30	Lecture	Monitoring technologies	D. Chatzievangelou (ICM)
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12:00	Lab	Monitoring experimental design	All
Lunch			
13:30			
-	Field	Robotic monitoring surveys	All (3 Boats, crawler)
18:00			
Dinner			
19:00			
-	Discussion	Briefing for next day and wrap up	
20:00			

Thursday 13/06			
08:30			
-	Lecture	Image analysis with BIIGLE	T. Nattkemper (UniB)
10:00			
Coffee break			
10:30			
-	Lab	Image analysis with BIIGLE	T. Nattkemper (UniB)
12:00			
Lunch			
13:30	Lab	Analysis of previous day's data	M. Francescangeli (UPC) & D. Chatzievangelou (ICM)
-			J. Aguzzi & G. Picardi (ICM), L. Thomsen (Ugot), Patrik Jonsson (SLU)
18:00	Field	Robotic monitoring surveys	
Dinner			
19:00			
-	Discussion	Briefing for next day and wrap up	
20:00			

Friday 14/06			
08:30			
-	Lecture	Monitoring biodiversity and ecol. indicators	M. Francescangeli (UPC), J. Grinyó & D. Chatzievangelou (ICM)
10:00			
Coffee break			
10:30	Lab	Accumulation curves and biodiversity indicators	M. Francescangeli (UPC)
-	Lab	Analysis of count data	D. Chatzievangelou (ICM)
12:00	Lab	Mapping and seabed mosaics	J. Grinyó (ICM)
Lunch			
13:30			
-	Lecture	AUV Swarms	Alessio Turetta (Gaaltech)
14:30			
14:30			
-	Field	Robotic monitoring surveys and Flume experiments	All
18:00			
Dinner			

19:00
- Discussion Briefing for next day and wrap up
20:00

Saturday 15/06

08:30
- Lecture/Lab Centralized data repositories D. Toma (UPC)
10:00

Coffee break

10:30
- Lab Data download + processing D. Toma (UPC)
12:00

Lunch

13:30 Lab Analysis of previous day's data D. Toma (UPC) & D. Chatzievangelou (ICM)
- Field Robotic monitoring surveys/ camera J. Aguzzi & G. Picardi (ICM), L. Thomsen
18:00 surveys (Ugot)

Dinner

19:00
- Discussion Briefing for next day and wrap up
20:00

Sunday 16/06

08:30
- Lecture Digital Twins Matthias Obst (Ugot)
09:15
09:15
- Lecture Gliders Bastien Queste (Ugot)
10:00

Coffee break

10:30
- Field Robotic monitoring surveys All
12:00

Lunch

13:30
- Field Robotic monitoring surveys and All (Glider, Alice)
18:00 Flume experiments

Dinner

19:00
- Discussion Briefing for next day and wrap up
20:00

Monday 17/06

08:30
- Discussion Ecol. monitoring, restoration All
10:00 technologies and strategies

Coffee break

10:30
- Activity End of the meeting and departure All
12:00
