



ChEESE



NuTS

SEA SOUNDS
Funded by the European Union

22 - 23 APRIL, 2025

TRAINING

Faculté des sciences et des
techniques Nantes Université 2,
LPG Building 4, Chem. de la
Houssinière, 44322 Nantes, France

Computational Seismology and Underwater Acoustics: the SPECFEM code

DAY 1 - 22 APRIL

SESSION 1

09:00-09:10	Welcome	Yann Capdeville (NuTS)
09:10-09:30	Technical instructions	TBD
09:30-11:00	Introduction to Spectral-Element Method (SEM)	Vadim Monteiller
11:00-11:30	Coffee break	
11:30-12:30	SPECFEM2D : basic steps for downloading and setting up the code, shown examples	Paul Cristini & Maxence Ferrari
12:30-14:00	Lunch Break	
SESSION 2		
14:00-15:30	SPECFEM2D : parfile, hands-on activities	Paul Cristini
15:30-16:00	Coffee break	
16:00-17:30	SPECFEM2D : meshing, Absorbing Boundary Conditions	Paul Cristini & Maxence Ferrari

19:30-21:30	Social Dinner	Restaurant: Au Vieux Quimper, Nantes
-------------	---------------	--------------------------------------



ChEESE



NuTS

SEA SOUNDS
Funded by the European Union

22 - 23 APRIL, 2025

TRAINING

Faculté des sciences et des
techniques Nantes Université 2,
LPG Building 4, Chem. de la
Houssinière, 44322 Nantes, France

Computational Seismology and Underwater Acoustics: the SPECFEM code

DAY 2 - 23 APRIL

SESSION 1

09:00-10:30	From SPECFEM2D to SPECFEM3D : basic steps for downloading and setting up the code, shown examples, hands-on activities	Vadim Monteiller
10:30-11:00	Coffee break	
11:00-12:30	SPECFEM3D : hands-on activities	Vadim Monteiller
12:30-14:00	Lunch Break	

SESSION 2

14:00-15:30	SPECFEM3D : showcases, CPU versus GPU	Vadim Monteiller, Maxence Ferrari & Paul Cristini
15:30-15:45	Discussion and Conclusion	