FROM OUTCROPS TO SEISMIC ACQUISITION AND INTERPRETATION

RÉSUMÉ DE LA FORMATION

Type de diplôme : Formation qualifiante
Domaine ministériel : Sciences, Technologies, Santé

Thématique : Environnement, géosciences

Public et prérequis

The training is for engineers and researchers involved at any stage of geological and/or geophysical interpretation.

The training is dedicated to geologists interested in marine sciences, and more particularly wanting to acquire new skills in the field of marine geophysics and to geophysicists interested in marine sciences, and more particularly wanting to acquire new skills in the field of marine geology and sedimentology.

Objectifs

The aim of the training is:
1) to provide geologists –in particular those working on seismic interpretation– with an opportunity to get some better understanding of the whole chain of acquisition and processing of geophysical data.
2) to provide geophysicists working on acquisition, processing and/or interpretation of geophysical data with new skills in the field of geology, deep-sea terrigenous sedimentation, gravity processes and turbidite systems.

Contenu

Data acquisition:
• Seismic acquisition at sea:
- Acquisition of seismic profiles across the Ligurian margin and the modern Var turbidite system
- Tests of acquisition parameters: effects on the quality of seismic profiles
• Field geology:
- Observation and analysis of proximal-distal architectures along the fossil Contes-Peïra Cava turbidite system belonging to the Annot Sandstone Formation (Eocene-Oligocene)
- Observation and analysis of mass-transport and gravity-flow deposits
- Acquisition of lithological logs.
Courses:
• Principle of seismic-reflection methods: Conference
• Resolution, signal penetration, artifacts and signal analysis on a seismic profile: Conference and Workshop
• Numerical processing of seismic data: Conference and Workshop
• Seismic interpretation of profiles collected in the Ligurian basin: Workshop
• Turbidite systems and gravity-driven processes: Conference
• Integration of seismic-profiles and outcrop observations: assets and limits of the two approaches: Workshop

Effectif : 10 max

Tarifs

Upon request

Organisation/Calendrier

Organisation

5 days minimum and optionals days upon request

The training takes place on the IMEV campus (Villefranche/mer, French Riviera) of Sorbonne University. Marine acquisition will be made in the western Mediterranean, offshore Nice and field observations will take place in the Southern Alps, about an hour drive from Nice.

Calendrier

Upon request

Durée : 40 hours

Contacts/Inscription

Inscription

Responsables pédagogiques :

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Evaluation/Validation

Validation : Attestation de fin de formation