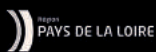


GEOPLANET ANALOGUE FIELD SCHOOL

FLUID-ROCK INTERACTIONS IN THE SOLAR SYSTEM

23TH SEPTEMBER
1ST OCTOBER 2019
PYRENEES

[HTTPS://LPG-UMR6112.FR/FS-GEOPLANET](https://LPG-UMR6112.FR/FS-GEOPLANET)



PROVISIONAL PROGRAM (May change according to weather and logistic issues)

Day	Topics	Itinerary	Leader(s)	Accommodation
Mon 23 Sep		8:00 - Departure from Nantes (LPG) 12:00 - Arrival at Bordeaux Mérignac Airport - Lunch 13:00 - Departure from Bordeaux Airport 18:00 – Stop at a supermarket at Tarascon-sur-Ariège 19:00 - Arrival at Auzat	SL/OB	Village de vacances de Marc Hameau de Marc - 09120 Auzat
Tue 24 Sep	(Bio-)chemical interactions between rocks and fluids: weathering, hydrothermalism, dissolution, mineral changes, chemical sedimentation, biomineralisations	8:00 – Departure from Auzat 9:00 - Lombrives cave : dissolution and precipitation of rocks and minerals, biomineralisations, biosignatures 12:00 – Lunch in the field 13:00 - Departure from Lombrives cave to Luzenac 14:00 - Luzenac talc quarry : hydrothermal weathering 18:00 – Arrival at Auzat	OB/AA/DC BR	Village de vacances de Marc Hameau de Marc - 09120 Auzat
Wed 25 Sep	Fluid-rock interactions in planetary interiors: composition and evolution of the Earth mantle, hydrothermal metamorphism, fluid circulations in rocks	8:00 – Departure from Auzat 9:00 - “ Étang de Lers ”: Ultrabasic rocks from the mantle 12:00 - Lunch in the field 13:30 – place to be determined (Dipyre): hydrothermal metamorphism of sedimentary rocks 16:30 – Departure from place to be determined (Dipyre) 19:00 – Arrival at Bagnères-de-Luchon	AB/BR BR	Hôtel Alti Luchon 19, Allées d'Etigny 31110 Bagnères-de-Luchon
Thu 26 Sep	Erosion, transportation and sedimentation of rocks by water: processes, landscapes and deposits in fluvial, lacustrine and marine settings	8:00 – Departure from Bagnères-de-Luchon 10:30 - Arrival at Roda de Isabena region : Triassic evaporites, Eocene clastic sediments and Present-day landscape 19:00 – Arrival at Benabarre	SP/MM AA/DC	Albergue de Benabarre c/ Plaza Palau Quer, 3, Antiguo Hospital de Santa Elena 22580 Benabarre, Spain
Fri 27 Sep	Erosion, transportation and sedimentation of rocks by water: processes, landscapes and deposits in fluvial, lacustrine and marine settings	8:00 – Departure from Benabarre Roda de Isabena region : Triassic evaporites, Eocene clastic sediments and Present-day landscape 19:00 – Arrival at Benabarre	SP/MM AA/DC	Albergue de Benabarre c/ Plaza Palau Quer, 3, Antiguo Hospital de Santa Elena 22580 Benabarre, Spain
Sat 28 Sep	Erosion, transportation and sedimentation of rocks by glaciers: processes, landscapes and deposits in glacial and periglacial settings	8:00 - Departure from Benabarre 13:00 - Arrival and lunch at Pont d’Espagne (Cauterets) 14:00 - Departure for 4-hours mountain hike to Oulettes Mountain Hut: glacial, periglacial and fluvial processes (geomorphology, sedimentology, hydrology)	 OB/SP/MM	Oulettes Mountain Hut 65110 Cauterets
Sun 29 Sep	Erosion, transportation and sedimentation of rocks by glaciers: processes, landscapes and deposits in glacial and periglacial settings Fluid-rock interactions in planetary interiors: melting, crystallisation and emplacement of magmatic rocks	7:00 - Departure for day-long mountain hike to Glacier des Oulettes and Petit Vignemale - Glaciology, geomorphology, sedimentology - Magmatic mineralogy and petrology 18:00 – Departure from Pont d’Espagne to accommodation	OB/SP/GC/ AB	Gîte d’étape Beau soleil 25 Rue Maréchal Joffre 65100 Cauterets (To be confirmed)

Mon 30 Sep	Erosion, transportation and sedimentation of rocks by wind: processes, landscapes and deposits in aeolian settings	8:00 – Departure 12:00 - Arrival and lunch at “ Dune du Pilat ” 14:00 – Geomorphology and sedimentology at “Dune du Pilat” 18:00 – Departure to accommodation	SP/OB/SC	To be determined
Tue 1 Oct		10:00 - Departure from Dune du Pilat 11:30 – Arrival at Bordeaux Mérignac Airport – Lunch 13:00 – Departure from Bordeaux Mérignac Airport 17:00 – Arrival in Nantes (LPG)	SL/OB	/

8 Leaders LPG : Antoine Bezos, Olivier Bourgeois, Sabrina Carpy, Gaël Choblet, Marion Massé, Stéphane Pochat, Benjamin Rondeau, Solenne Lhéritier
2 Leaders CAB: Armando Azua, Daniel Carrizo



Accessing some of the geological sites will need walking on rocky mountain trails (30 min to 8 hours, elevation gains up to 900 m). Reasonable hiking skills and equipments are therefore required. **Moutain hiking shoes and weatherproof suits are mandatory.**



NO!



NO!



YES!