ROCA DELS BOUS ARCHAEOLOGICAL PROJECT, SPAIN:  
HUMAN SETTLEMENT IN THE SOUTH PYRENEES IN THE PAST 50,000 YEARS

Course ID:  
July 31st – August 28th, 2021

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Staff and participants analyzing field strategy at the beginning of the day
INTRODUCTION

Prehistoric caves and rock shelters contain important data to reconstruct the adaptation to the environment and social structures and organization of the hunter-gatherers in the past. These practices are under active research in some parts of the Old World, but in the south Pyrenees of Spain these manifestation remains elusive. Archaeological sites attributed to the Upper Pleistocene and Holocene are rare in this region and it is difficult to trace human occupation trends throughout these periods. The notion that the south Pyrenees could be considered an “empty” landscape deserves to be explored.

Roca dels Bous (Lleida, Catalunya) (http://cepap.uab.cat/es/prepirineo) is a rock shelter located at the first range of the southern Pyrenees, containing one of the last neanderthal occupations in NE Iberia. Current research allows us to recognize differences between Neanderthals groups and their adaptative strategies ca. 50.000 years ago. The archaeological sequence at Roca dels Bous contains animal bones, hearths and Middle Paleolithic artifacts. Additionally, Roca dels Bous has become a key site to understand spatial patterns and site reconstruction trough the recovery of numerous hearths. Finally, this site constitutes a reference in the current Middle Palaeolithic debate in southern Pyrenees due to the long trajectory research developed since 1980’s.

This Middle Palaeolithic sequence provides excellent opportunities to explore the Neanderthal world of the last neanderthals that lived in Iberia c.a 50.000 years ago, contributing to explain local adaptations and cultural evolution that are essential to the understanding of evolutionary prehistoric processes in Western Mediterranean. This rockshelter has also remarked the variation of lithic technological changes in Musterian occupations as well as the relevance of non-siliceous raw material exploitation.

ACADEMIC CREDIT UNITS & TRANSCRIPTS

Credit Units: Attending students will be awarded 8 semester credit units (equivalent to 12 quarter credit units) through our academic partner, Connecticut College. Connecticut College is a private, highly ranked liberal arts institution with a deep commitment to undergraduate education. Students will receive a letter grade for attending this field school (see grading assessment and matrix). This field school provides a minimum of 160 direct instructional hours. Students are encouraged to discuss the transferability of credit units with faculty and registrars at their home institution prior to attending this field school.

Transcripts: An official copy of transcripts will be mailed to the permanent address listed by students on their online application. One more transcript may be sent to the student home institution at no cost. Additional transcripts may be ordered at any time through the National Student Clearinghouse: http://bit.ly/2hvurkl.

PREREQUISITES

None. This is hands-on, experiential learning and students will study onsite how to conduct archaeological research. Archaeology involves physical work and exposure to the elements and thus, requires a measure of acceptance that this will not be the formal university learning environments. You will get sweaty, tired and have to work in the outdoors.
Students are required to come equipped with sufficient excitement and adequate understanding that the archaeological endeavor requires real hard work (sometimes in the sun). Roca dels Bous fieldwork is not physically demanding, but it is recommended to be fit enough to carry light weights (Max. 5 kg) during short walks. Also note the excavation floor is rough and not always comfortable, therefore it is recommended to be flexible and adaptable to work condition.

An understanding of the Spanish language is useful in order to get involved with local population.

**DISCLAIMER – PLEASE READ CAREFULLY**

Our primary concern is with education. Traveling and conducting field research involve risk. Students interested in participating in IFR programs must weigh whether the potential risk is worth the value of education provided. While risk is inherent in everything we do, we do not take risk lightly. The IFR engages in intensive review of each field school location and programming prior to approval. Once a program is accepted, the IFR reviews each program annually to make sure it still complies with all our standards and policies, including those pertaining to student safety.

The IFR does not provide trip or travel cancellation insurance. We encourage students to explore such insurance on their own as it may be purchased at affordable prices. [Insuremytrip.com](http://Insuremytrip.com) or [Travelguard.com](http://Travelguard.com) are possible sites where field school participants may explore travel cancellation insurance quotes and policies. If you do purchase such insurance, make sure the policy covers the cost of both airfare and tuition.

We do our best to follow a schedule of activities, methods training, and programming as outlined in this syllabus. However, this schedule can be easily disrupted by any number of unforeseen circumstances, including revised decisions by local permitting agencies, political unrest, and changes in the weather. While this schedule represents the best of the director(s) intentions, we - students and staff alike - need to be adaptable and tolerant of necessary alterations. This adaptability is an intrinsic part of all field research.

Archaeological fieldwork at Roca dels Bous may be physically demanding and mentally challenging. You should be prepared for conditions that include hot and dry days (90°-100° F), although Roca dels Bous site is protected from direct sun impact. There is little relief during the night. Pollen and dust are in abundance. Expect long days excavating at the site in the morning, and working in the lab in the afternoon.

If you have any medical concerns, please discuss them with your doctor. You are welcome to discuss conditions with your project director as well.

**COURSE OBJECTIVES**

This course has two goals:

- To provide students a practical working knowledge of **archaeological field methods**, including survey, excavation, laboratory work, artifact cataloging, and conservation.

- To introduce students to the **intellectual challenges presented by archaeological research**, including research design, the interpretation of data, and the continual readjustment of hypotheses and field strategies with regard to the information recovered in the field.
Roca dels Bous (RBAP) is a collaborative program between the Institute for Field Research (IFR) and the Centre d’Estudis del Patrimoni Arqueologic - Universitat Autònoma de Barcelona (CEPARQ-UAB). This program will combine lectures, field survey, excavation and laboratory work, covering essential activities to obtain a consistent archaeological training. The course will last 4 weeks, beginning on Saturday July 31st until Saturday August 28th of 2021.

LEARNING OUTCOMES

Roca dels Bous Archaeological Project will allow students amplifying the knowledge about Neanderthal world. This program will provide specific training about data analysis and artifact cataloging as well as assimilate recent methodological framework that we use during fieldwork and lab work.

A work program will be established beforehand detailing the tasks and the sequence in which they will be performed during the excavation. Participants will be trained in the specific tasks assigned to them as well as on the general objectives of the excavation. Sediments will be sifted to retrieve artifacts, charcoals, seeds and micro vertebrates. Personal digital assistant (PDA) will be used onsite to register and process the data, with topographic instruments being directly linked to our database.

Lab work a key part of our archeology strategy and includes inventory, classification and initial study of the artifacts, bones and archeological structures found at the site. The project management will train all the participants in the study of the material retrieved during the excavation. Every day, the activities to be performed to keep on working will be tackle to the participants. Field work results will be shared to get the participants fully involved in the project. In addition, regular talks will introduce the participants in the archeological and evolutionary meaning of Neanderthals and to discuss the different theories surrounding this specie.

Our main goal consists on promoting the participants to acquire skills concerning stratigraphic challenges, artifact identification and data managing as well as all the relevant processes and activities that take part in a working and research atmosphere. This knowledge will be useful to work in other prehistoric contexts and will provide basic and advance skills in the management of group decision, teamwork dynamics and research social transmission.

ASSESSMENT

General framework of evaluation is presented below:

70 % Field Participation, collaboration and good behavior with local community – This encapsulates daily participation and progress in learning techniques of excavation, survey and lab work. Students will be trained to carry out accurate, careful archaeological work, how to use all basic field equipment, and how to comprehensively record data. Ability to carefully observe and follow instructions regarding field procedures, preparing forms, identifying artifacts, processing screen residue, and overall attentiveness in class are all important. Each student is expected to develop a solid grasp of recording procedures (provenience, soil attributes, excavation notes, computer data base in the field and in the lab, etc.). This practical approach allows students to demonstrate competency in field and lab skills instructed over the course.

Equally important is overall good citizenship and cooperation as part of the archaeological research team. Archaeology requires commitment to promptness; cooperation in loading and unloading gear at the beginning and end of each field day; anticipating field tasks; helping fellow team members with recording, measurements, excavation, and lab tasks; helping to maintain group morale.
This notion of respect should be addressed to the small community of retired farmers from Sant Llorenç de Montgai, which get accustomed to live together participants from US universities. These excellent relationships have been always based in the mutual respect and we hope they continue on that direction. From the staff, it is basic looking after the local community, and promote healthy working and social atmosphere during the Project. Participants must keep positive neighbour agreements with the local population of Sant Llorenç de Montgai.

30% Final essay—Student will present a paper with a maximum length of 10 pages, explaining the participation in the project, and the meaning of Cova Gran to contextualize human settlement in Western Europe. Students will be assessed on their ability to organize the information and competency of the readings. Recommendations to ameliorate the program will be welcome.

TRAVEL, ROOM & BOARD, & SAFETY LOGISTICS

Disclaimer for 2021 Season. The logistics outlined below for this IFR field school were written according to the most current and accurate information available to IFR. We recognize that the best practices for preventing the transmission of the coronavirus may change in the coming months. The IFR will be revisiting program-specific plans periodically throughout the enrollment period and will update program details according to new developments, such as the presence and availability of a vaccine, new travel protocols, and updated local policies.

An IFR field school is designed to provide positive, constructive experiences for communities, students, and researchers. Amid the COVID-19 pandemic, the following protocols have been developed based on the assumption that any participant in an IFR field school may be an asymptomatic carrier of SARS COVID-19. Our goal, with these protocols, is to reduce the possibility for COVID-19 transmission among participants, staff, and local community members. IFR depends on the complete and sustained commitment of all students to stay healthy and to help others stay healthy. On enrollment, students commit to comply with all aspects of the IFR COVID-19 avoidance policy as well as any/all policies specific to their respective IFR field school.

PRIOR TO TRAVEL

Students must arrange a test for current infection for COVID-19 through a RT-PCR test for themselves in their home location within 72 hours prior to arrival at the destination and upload proof of negative result to their IFR application portal.

After demonstrating they tested negative, students must take all precautions possible to ensure they remain COVID-19 free prior to and during travel to the field school. Students should plan to travel in the safest manner that they are able (e.g., avoid flights with long layovers and multiple connections). In addition, we require the following from all students: use of a face mask during travel to, from, and on airlines, ferries, trains, busses, and the like; regular washing of hands; and, in so far as possible, maintain social distancing of 6 feet / 2 meters in airports and other spaces.
VISA REQUIREMENTS

Spain form part of the Schengen Agreement. US citizens may enter Spain for up to 90 days for tourist or business purposes without a visa. Stiff fines may be imposed for overstaying the 90-day period. Your passport should be valid for at least three months beyond the period of your stay.

Citizens of other countries are asked to check the embassy website page at their home country for specific visa requirements.

TRAVEL (TO AND DURING THE PROGRAM)

We suggest you hold off purchasing your airline ticket until six (6) weeks prior to the departure date. Natural disasters, political changes, weather conditions and various other factors may force the cancelation of a field school. The IFR monitors local conditions 6-7 weeks prior to the beginning of each program and makes a decision accordingly. This approach allows sufficient time to still purchase deeply discounted airline tickets.

Students will meet at the Bar-Cafeteria at **Lleida-Pyrineus RENFE train station on Saturday July 31st 2021 at 7:00pm** (19 h). Trains to Lleida-Pyrineus depart from Sants RENFE train station at Barcelona frequently. Trains from the Barcelona airport to Sants station depart every 30 minutes. Train schedules from Sants station to Lleida Pirineus can be found [here](#). Take into account face masks are compulsory in any public means of transport in the country.

Once students and staff join in Alberg la Cova, the means of transport will be reduced. From the hostel to the field site we go on foot (15 min) and the use of cars is restricted to transport gear and equipment. Due to the COVID-19 situation, facilities that we use to develop the lab work in the village will be closed. It means that the lab work will be re-situated in **Espai Origens**. Espai Origens is a local and regional center for the study of archaeological, historical, geological and natural heritage, and it will be reserved to us during the RBAP. This center is situated 3 km from Alberg la Cova, which means short car trips will be needed.

This program will conclude afternoon of Friday, August 27th 2021. Students should plan onward travel or flights back home for any time after this date.

If you missed your connection or your flight is delayed, please call or email the field school director immediately. A local emergency mobile phone number will be provided to all enrolled students.

TRAVEL (TO AND DURING THE PROGRAM)

*Update COVID-19 measures*

During the RBAP different measures will be taken to respect properly local, regional and state regulations. Following daily sanitary regulations it is mandatory to overcome a COVID-19 PCR satisfactorily 72h before travelling. Without this COVID-19 PCR there will not be possible to enter in the country. However, this situation can change in summer depending on different unforeseen factors. COVID-19 test can be affordable in Spain, but for residents. In case of tourists or people from foreign countries PCRs (72 h before travelling) are mandatory.

In case of possible contact with a COVID-19 infected person, the hostel offers some rooms that can be used to keep quarantine period. As it has been previously explained, this may improve lightly the prize per room due to it will be occupied by one single person.
If a student is held at the border before arriving to RBAP, it should be communicated via mail to the project directors. If this situation occurs during the RBAP the staff and directors will address the proper means to establish a fluid communication to the affected person, via mail, calla, video-call or text messaging. In case of isolation in a room, the staff will carry out the proper procedures to avoid direct contact with the affected person.

**LOCAL PROTOCOLS, REGULATIONS, & EXPECTATIONS**

Acting protocols and sanitary regulations change constantly due to the COVID-19 emergence. However, we will provide the current local and state regulation to be used as a framework.

Specific COVID-19 questions are addressed in [SPECIAL ISSUE: COVID REGULATIONS](#) section.

These regulations should be followed by all citizenships excepting special medical cases.

**The community in the COVID-19 sanitary emergency**

The local community has been important to our project as they vertebrate the comprehension of our research in the landscape. However, the emergency of the COVID-19, has caused our relationship with the local community become very limited. Additionally, Sant Llorenç de Montgai is a small village where the major part of the population is composed of elderly people. It implies they are potentially risk people and we expect a respectful treatment by the participants to them.

As mentioned before, the contact with the local community will be reduced. Interaction with the local community must be limited to situations where everyone can maintain the required 6-foot/2-meter physical distance, wear masks, and ideally be outside

The program will not include activities that promote extra-contact with people outside the RBAP. In case of COVID outbreak, Alberg la Cova has all the facilities to guarantee a complete isolation in case of COVID outbreak.

Alberg la Cova as a recognized youth hostel in the youth net of facilities of the Generalitat de Catalunya, has been approved to host students during the scholar year. Students from 5 to 16 years old use these facilities when developing activities related to Archaeology and Prehistory, ensuring the correct functioning of the current action protocols and following the sanitary regulations. The management of scholar groups during the pandemic has provided a wide experience to control unexpected situations and to face unforeseen circumstances.

**FACE MASKS / FACE COVERINGS**

All students, faculty and staff are expected to wear face coverings. Face masks, along with social distancing, are among the most effective ways of minimizing the spread of the coronavirus.

The objective of wearing a mask is to capture potentially infectious droplets from the wearer. Therefore:

- Masks or respirators that are equipped with an "exhalation valve" are not permitted, unless covered by another mask.
● Neck fleeces (gaiter masks) are considered the least effective form of face masks, and are not permitted. (The material found in gaiters tend to break down larger droplets into smaller particles that are more easily carried away in the air.)
● Folded bandanas and knitted masks are ineffective and are not permitted.
● Masks must be worn so as to cover both the mouth and nose. If your mask becomes loose, it can be tightened by twisting the ear loops.

ACCOMMODATIONS

Students will stay at the Alberg la Cova hostel at Sant Llorenc de Montgai. This village is approximately 30 km north of Lleida (Catalunya, Spain). The building has excellent facilities with communal space, laundry and Wi-Fi.

Students will share communal bedrooms that are in accordance with the Covid sanitary regulations indicated by Generalitat de Catalunya. Alberg la Cova has reduced their total bed count from 55 to 31 to help ensure the effectiveness of sanitary measures by reducing occupied spaces. The use of masks will be mandatory in the hostel as a preventive measure. Communal bedrooms and social places (toilets, showers and living room) will be regularly cleaned and sterilized. As Alberg la Cova hostel has several rooms (7), students will spread in groups of 2 or 3 people in each room. In the event of Covid-related symptoms presenting in any member of the staff or the participants, we will follow the regulations established by the competent authorities. Additionally, we will reserve separate rooms in the hostel designated specifically to host participants “in preventive quarantine”. Alberg la Cova will provide bed sheets, which will be changed regularly. Additionally, the laundry service will be available to students at any time. The laundry will be scheduled according to the needs of participants (see MANAGING COVID-19 CASES & OUTBREAKS section below for more information).

Specific COVID-19 questions are addressed in SPECIAL ISSUE: COVID REGULATIONS section.

Meal arrangements and cleaning strategies

With regard to dietary needs, the project may accommodate some, but you must communicate with project directors to ensure your needs can be covered in the field. Celiac, vegan, vegetarian and lactose intolerant diets may be afforded but other types of diet may be more challenging to be managed.

All team members must participate in setting tables for meals and do the washing up and clean common shared spaces after lunch and dinner (living room, bedroom). The cleaning will be done with sanitary products that ensure the sterilization of common spaces. Additionally, the spaces will be cleaned regularly by the person in charge of the cleaning service of the hostel.

All participants in a field school, students and staff, will wear facemasks while indoors (i.e. during lectures, during lab work, in shared residential spaces, etc.).

Regular hand washing will be a part of the project’s daily schedule.

Note that the maintenance of the sanitary regulations is a priority for us and we will follow the indications provided by the competent organization in any moment. Any change will be communicated to the participants to know how to act in case of new regulations.
MANAGING COVID-19 CASES & OUTBREAKS

Alberg la Cova is part of the Registered Youth Facilities from Generalitat de Catalunya (AJ000355). The proper functioning of the hostel will be dependent of the local, regional and state regulations. At the same time, if Alberg la Cova is opened, it implies their facilities keep to all regulations stablished. This means that we will not improvise in any situation because of all scenarios are already taken by the sanitary regulations into account.

Basic cares would be conducted on Alberg la Cova, as it is a place prepared to overcome basic health circumstances. The hostel counts with an isolated room that can be used to isolate a participant in quarantine. Monitoring more than one person in quarantine will depend of the total amount of participants of the program. The hostel has some flexibility for special contingencies.

In case of major health problems, the Hospital Universitari Santa Maria de Lleida and the Hospital Universitari Arnau de Vilanova, both placed on Lleida offers intensive care units. Those hospitals are located 35 min far from Alberg la Cova by car. Health Centers, in charge of minor health problems, are located in Balaguer, which is 10 min far from the hostel by car.

We have no direct contact with the community, and we are sure the community will be informed about the local and regional sanitary regulations. In case the behavior of the community can affect the proper functioning of the program, we are committed to adopt extra-measures.

We will follow the protocols and preventive measures exposed by the World Health Organization (WHO). The laundry for people that exhibit COVID-19 symptoms will be kept in a single bag and processed separately. The laundry will done every day and clothes will be washed at 60ºC to ensure the sterilization. All the belongings of an affected person must be sterilized following the current sanitary protocols.

SPECIAL ISSUE: COVID REGULATIONS

State regulation

Regional regulation

- Instruccions per al curs 2020-2021 dels centres educatius de Catalunya (30.06.2020).
- Pla de contingència i reincorporació progressiva del Departament d'Educació en el marc de l'etapa de represa.
- Pla d’actuació per al curs 2020-2021 per a centres educatius en el marc de la pandèmia .
- Mesures extraordinàries de /Salut per evitar els brots de la COVID-19 a les escoles.
Links to protocols and sanitary measures

http://www.estiuambleure.cat/ca/protocols-guies-i-models-prevencio-i-seguretat/


COURSE SCHEDULE

All IFR field school begins with safety orientation. This orientation addresses local and program protocols concerning student behavior, appropriate attire, local practices and sensibilities that may be unfamiliar, potential fauna and flora hazards, IFR harassment and discrimination policies, and the student Code of Conduct.

Fieldwork schedule week 1-4 (provisory time table):

Monday to Friday:
7:15 -13:30 AM: Fieldwork in Roca dels Bous
14:00-16:00 PM: Lunch & free time.
16:00-19:00 PM: Lab work, lectures & discussion in Sant Llorenç de Montgai facilities.
20:00 PM: Diner

Saturday and Sunday: Free time

One visit every week, usually Friday afternoon, will be scheduled (see excursions)

LECTURE SCHEDULE

Lectures will be presented to students each week. Lectures will last 45-60 minutes each, and presented by the staff. You will find below the lectures proposed. The schedule will be announced every week.

- **Lecture 1**: Human settlement during the Upper Pleistocene at the south face of the Pyrenees. Reading: Mora et al. 2011.
- **Lecture 2**: Practicum: introduction to knappable artifacts: workshop on lithics found at Roca dels Bous site. Staff Roca dels Bous Archaeological Project.
- **Lecture 4**: The archaeosequence of Roca dels Bous. Readings: Mora et al. 2011, Mora et al. 2014.
- **Lecture 5**: Practicum: Introduction to raw material selection in fluvial deposits. Roy et al., 2017
- **Lecture 6**: Site formation processes in Roca dels Bous. Reading: Mora et al. 2011, Polo et al. 2014.
- **Lecture 7**: Neanderthals at the southeastern Prepyrenees. Reading: Martínez-Moreno et al. 2010,
EQUIPMENT LIST

Tools used in the excavation and lab will be provided by the project. For personal items, student should bring the following:

✓ Laptop
✓ Shower towel
✓ Shower sandals
✓ Wide brim hat or head cover
✓ Canteen or water container
✓ Sunscreen
✓ Light jacket or rain coat
✓ Light cotton work pants
✓ Long and short sleeve cotton shirts
✓ Socks
✓ Sport shoes (not rigid boots)
✓ Insect repellent
✓ Sunglasses with UV protection
✓ Sun cream
✓ Beach towel & swim suite
✓ Personal medication

*Special COVID-19 items

✓ The use of masks will be mandatory during the field program.
✓ We recommend carry your personal hydroalcoholic gel. The hostel will provide hydroalcoholic gel in common spaces, but their use is restricted to the Alberg la Cova facilities.

EXCURSIONS*

Excursions have been part of our projects during the past years. La Noguera has an astonishing prehistoric, historic and landscape heritage, but the emergence of the COVID-19 may difficult the organization of visits. Note that excursions will be organized if current regulations allow it and additionally, if we perceive the realization of these activities do not be prejudicial to the correct working of the group and the project. After these lines, some of the field trips proposed consisted of:

- **Life and war at la Marca superior:** La Noguera was the conflictual border between Muslim and Christian kingdoms in the Middle Ages. Castles, Muslim villages and monasteries testify the Islamic and Christian rivalry along the IX-XII centuries ([http://www.balaguer.cat/turisme](http://www.balaguer.cat/turisme)).
- **Roca dels Bous rockshelter** offers the possibility to learn how Neanderthals inhabited the Pyrenees 40000 years ago. This living project proposes an interactive visit combining the use of digital tablets (iPAD) with the research advances carried out year after year. This window to the past facilitates understanding of the traces preserved at the site allowing to the participants to understand Neanderthals activities in the repeated visits to the shelter ([http://www.larocadelsbous.cat/en](http://www.larocadelsbous.cat/en));
- **La Noguera landscape:** a walk into scenic’s landscapes of Mont-Rebei and Camarasa gorges ([http://www.lliadatur.com/Turisme/Visita/Espai-Natural-Congost-de-Mont-rebei/177.aspx](http://www.lliadatur.com/Turisme/Visita/Espai-Natural-Congost-de-Mont-rebei/177.aspx));
- **Parc Arqueològic-Sant Llorenç de Montgai:** educational and leisure facility designed to show what prehistoric life may have been like and introduce the methods of research used by archaeology. Its ultimate aim is to promote awareness of prehistoric heritage in the context of the surrounding landscape ([http://cepap.uab.cat/en/campus_noguera_archaeological_park](http://cepap.uab.cat/en/campus_noguera_archaeological_park));
- **Cova del Tabac:** a prehistoric sanctuary. This cave, located in a scenic gorge, containing prehistoric paintings and archaeologic site related with the apparition of first farmers in the area.
• **Balaguer city**: This city offers a broad variety of historic heritage from the Middle Age. Balaguer was a Muslim and a Christian city, and still maintain the ancient walls of the city dated from XIV century. Also the Gold Museum can be visited in this city.

• Small trips to the supermarket, ATM or pharmacy will be done regularly in Balaguer city.

Visits to these places were held on Friday afternoon, or re-scheduled depending of the project needings.

*The program has limited free time for independent sightseeing. Please consult with the faculty about independent travel during the program.*

**REQUIRED READINGS**

PDF files of all mandatory readings will be provided to enrolled students via a shared Dropbox folder. Students are encouraged to download and/or print readings prior to traveling. Course participants are expected to be prepared to engage the discussions led by facilitators, all of whom will be looking for compelling evidence that students have read and thought about the assigned readings prior to the scheduled day on which they are first discussed.

Cova Gran has an extensive bibliography published essentially in international scientific journals. All readings may be downloaded through the project website http://cepap.uab.cat/es/rocadelsbous

Students are strongly encouraged to read before to participate in the project the following selected articles. This will greatly benefit lectures and class discussions.

• Martínez-Moreno, J., Mora, R., de la Torre, I., 2004. Methodological approach for understanding middle palaeolithic settlement dynamics at la Roca dels Bous (la Noguera, Catalunya, Northeast Spain). In: Conard, N. (Ed.), Settlement Dynamics of the Middle Palaeolithic and Middle Stone Age II. Kerns Verlag, Tubingen, pp. 393e413.

• Martínez-Moreno, J., de la Torre, I., Mora, R., Casanova, J., 2010. Technical variability and changes in the pattern of settlement at Roca dels bous (southeastern Pre-Pyrenees, Spain). In: Conard, N. (Ed.), Settlement Dynamics of the Middle Palaeolithic and Middle Stone Age III. Kerns Verlag, Tubingen, pp. 485e508


RECOMMENDED READINGS

Neanderthals, hunter-gatherer lifestyle and other issues dealt with in the project have an immense bibliography. As general introductory readings, we suggest the following general books that it can easily be found at your local university library.


