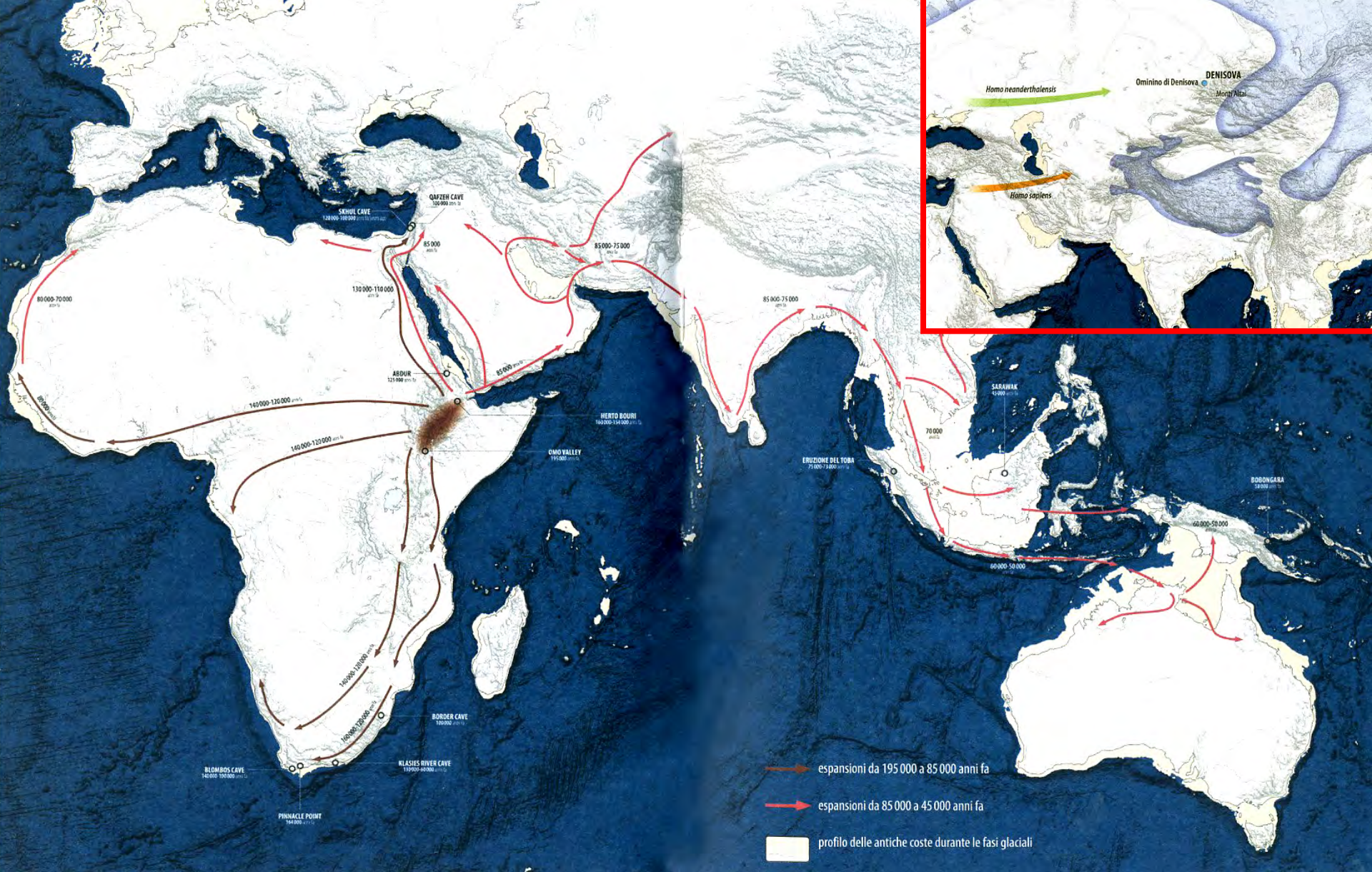


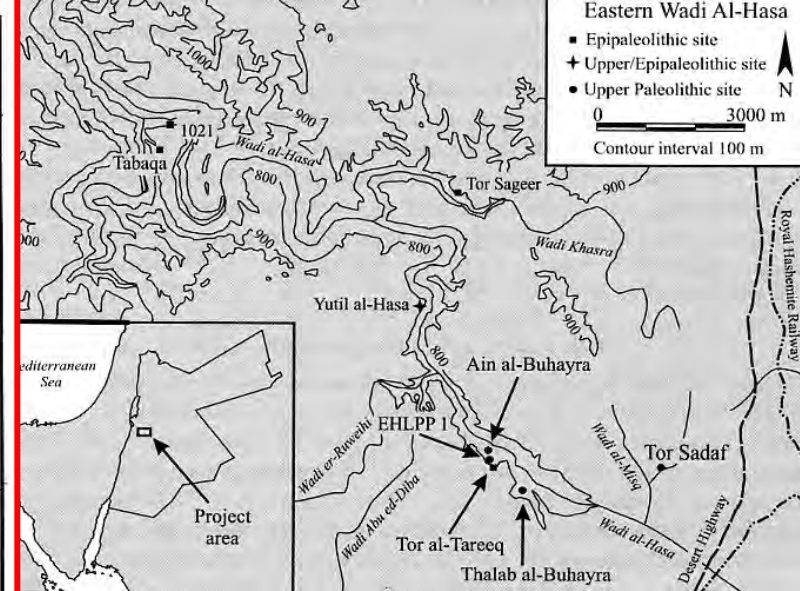
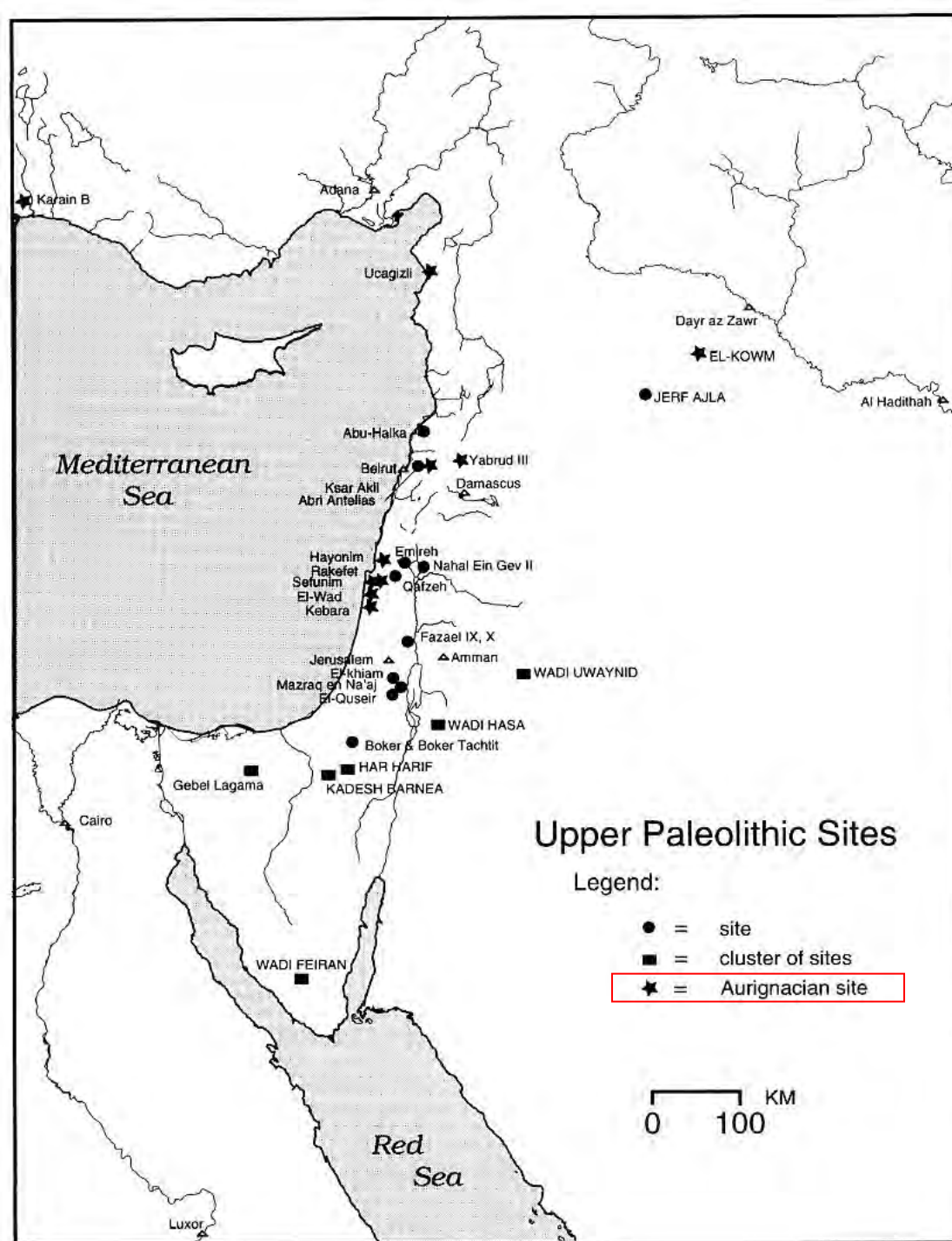
When did the first modern humans make their appearance in the Levant and in Europe? Where did they originate from? How rapidly did they spread?



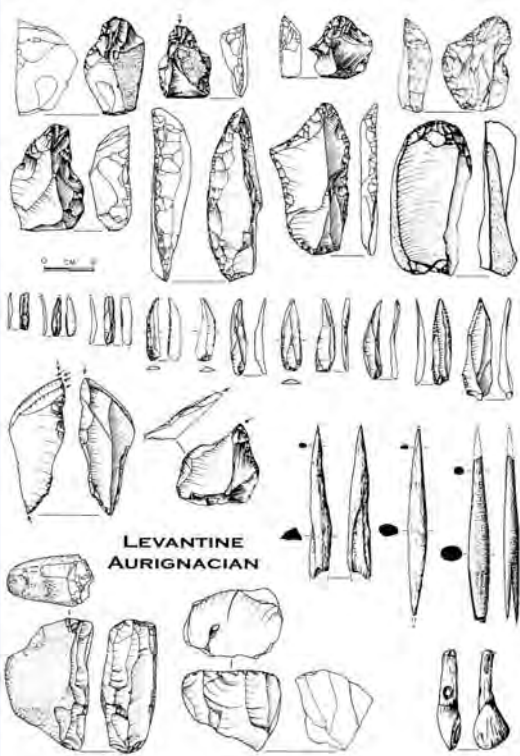


Modern humans developed in central eastern Africa at least 200,000 years ago, and from there started to spread toward other regions some 100,000 years from the present. We know that ca. 90,000 years from now they were already in the Levant



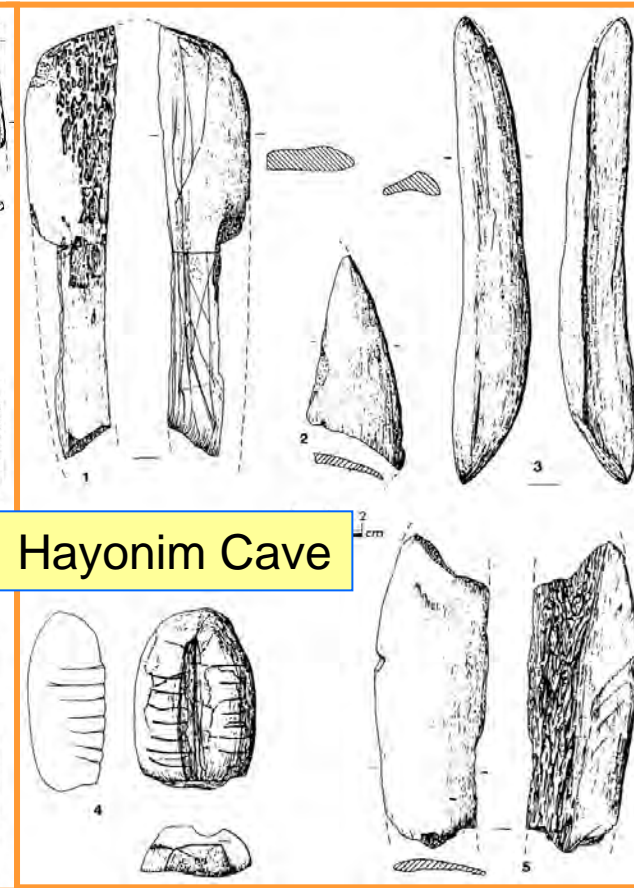
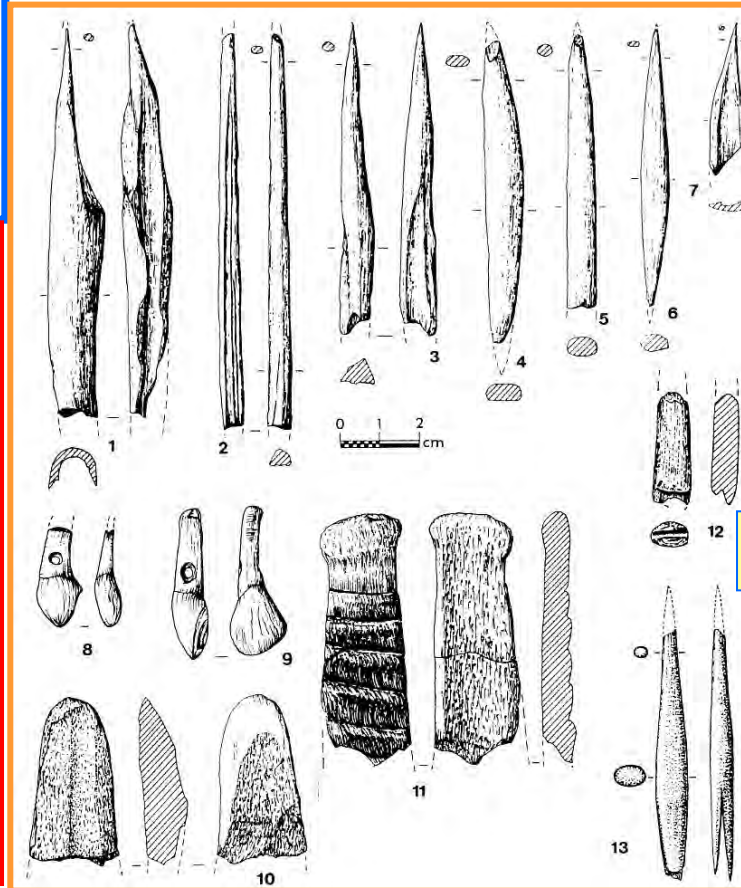


The Levant plays a key role in the study of the first modern humans. Thanks to many excavations and the discovery of many human bones, this is one of the region from where the complex interaction between Neanderthals and modern humans might be understood. According to the evidence of the chipped stone assemblages, three main periods are known to date: Middle Palaeolithic Mousterian, Early Upper Palaeolithic, and Upper Palaeolithic, Aurignacian



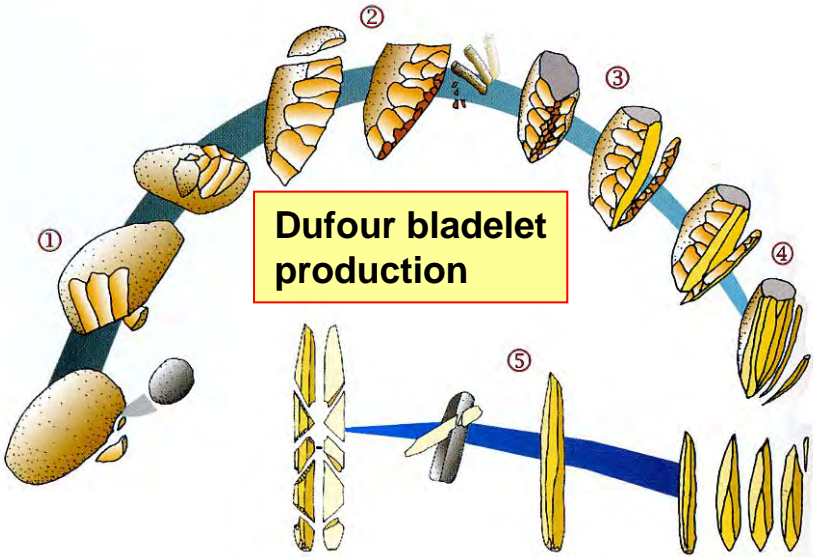
The Aurignacian has always been considered one of the characteristic markers of the beginning of the Late Palaeolithic period and a typical product of the modern humans. Known from many sites both in Europe and part of Asia, the chipped stone assemblages of the Aurignacian culture show very characteristic traits. Among them is the production of very small bladelets retouched along only one side, called “Dufour bladelets”, and different types of end scrapers, among which carinated types

Other characteristics regard the production of bone, ivory and antler tools, represented by perforators, spearheads, spatulae, ornaments and other items. In particular spearheads play a very important role



Hayonim Cave





**Polished bone implements**

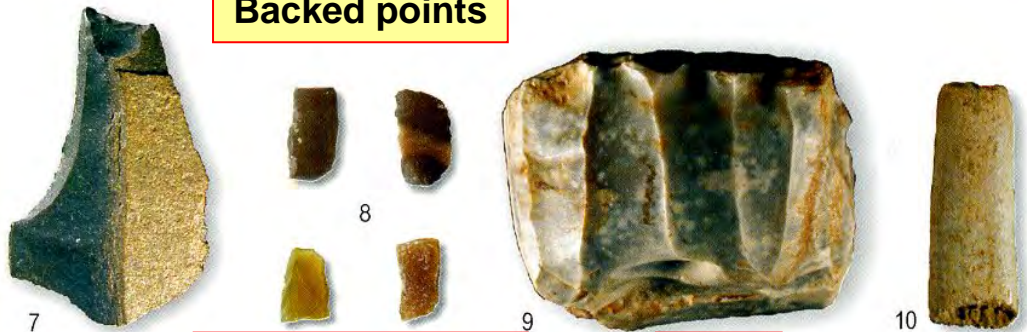


**Burins**

**End scrapers**



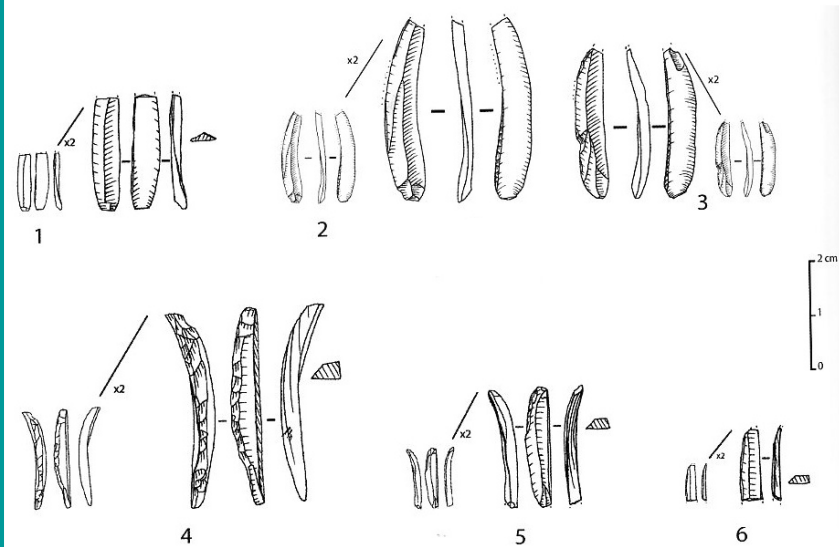
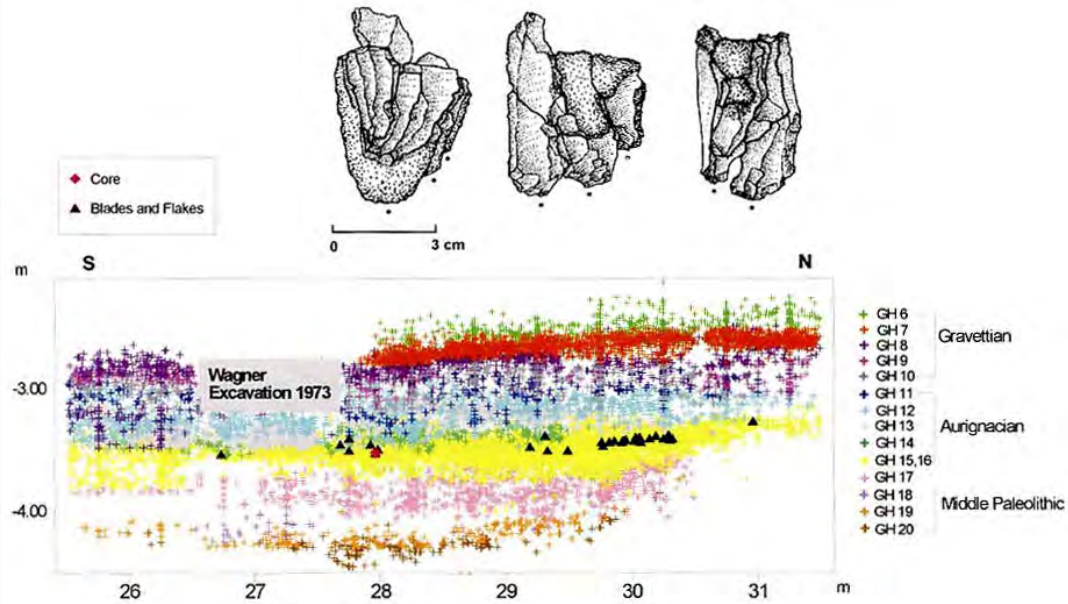
**Backed points**



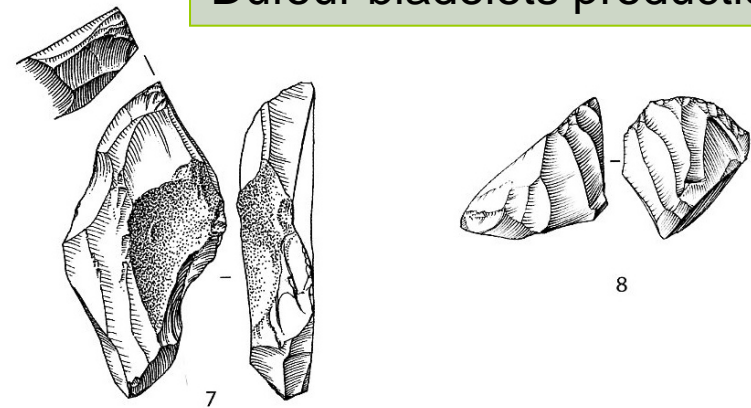
**Dufour bladelets**

**Core**

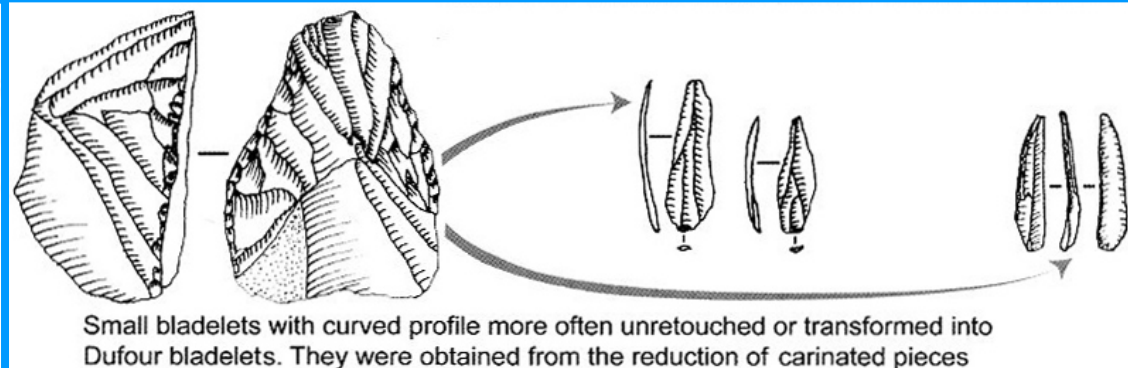
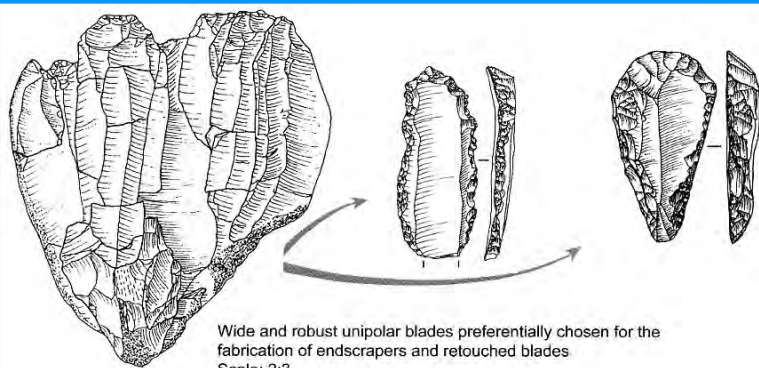
The new tool kit of the Aurignacian hunters is represented by a greater variety of tools, mainly obtained from blades and bladelets, following new methods of manufacture that were previously unknown



## Dufour bladelets production

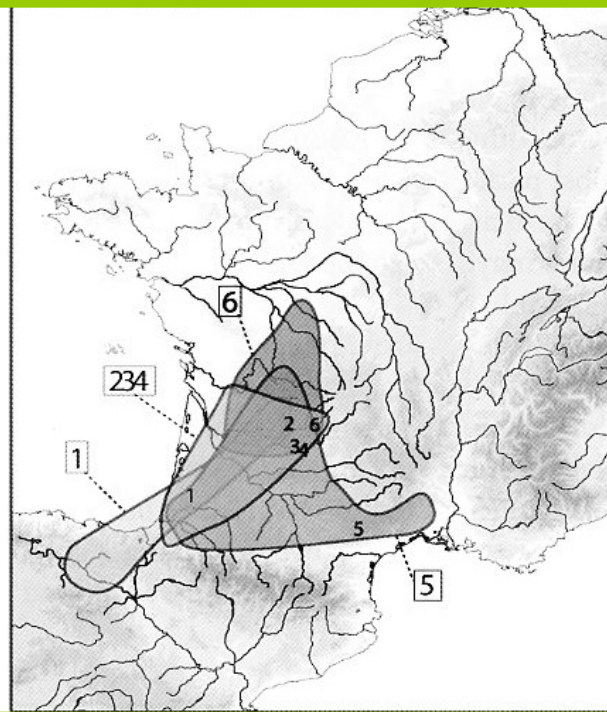
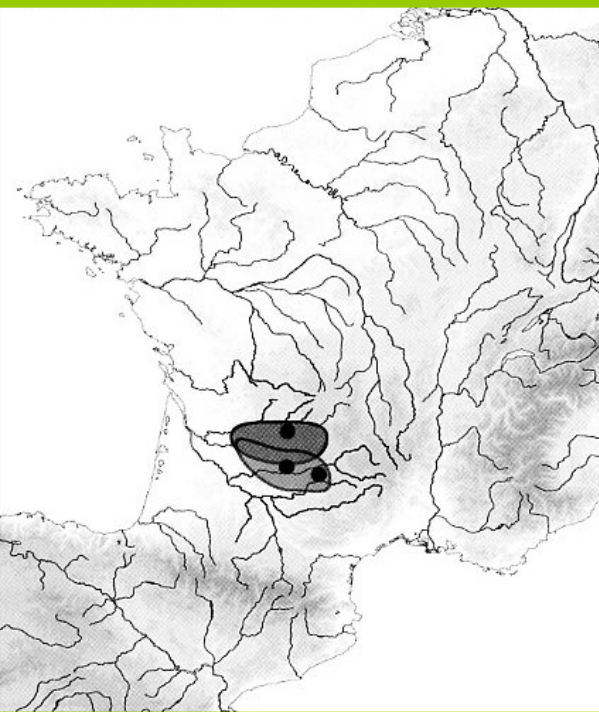


The new production technique, indicating the presence of modern humans, is well known from many sites of Eurasia. Classical sequences (above) show the occurrence of Aurignacian horizons between Mousterian and Gravettian layers, the assemblages from which are represented by new types of blade implements





The study of the lithic raw material sources, exploitation and circulation has greatly improved during the last 20 years. The case below shows what was known of the Aurignacian lithics circulation in southern France before (left) and after (right). As clearly shown, the pattern has completely changed and has widened our knowledge of the movements of the early modern humans



The figure above shows the lithic raw materials circulation in different regions of north, central and southern Italy from which good quality lithic raw material outcrops were exploited during the Aurignacian times

## SEQUENCES

## TECHNIQUES

## ANTLER

## IVORY

## BONE

PROCUREMENT

by product  
of the hunt /  
gathering of  
shed antler

EXTRACTION

fracturation

DEBITAGE

cleaving

ROUGHING OUT

scraping

SHAPING

split

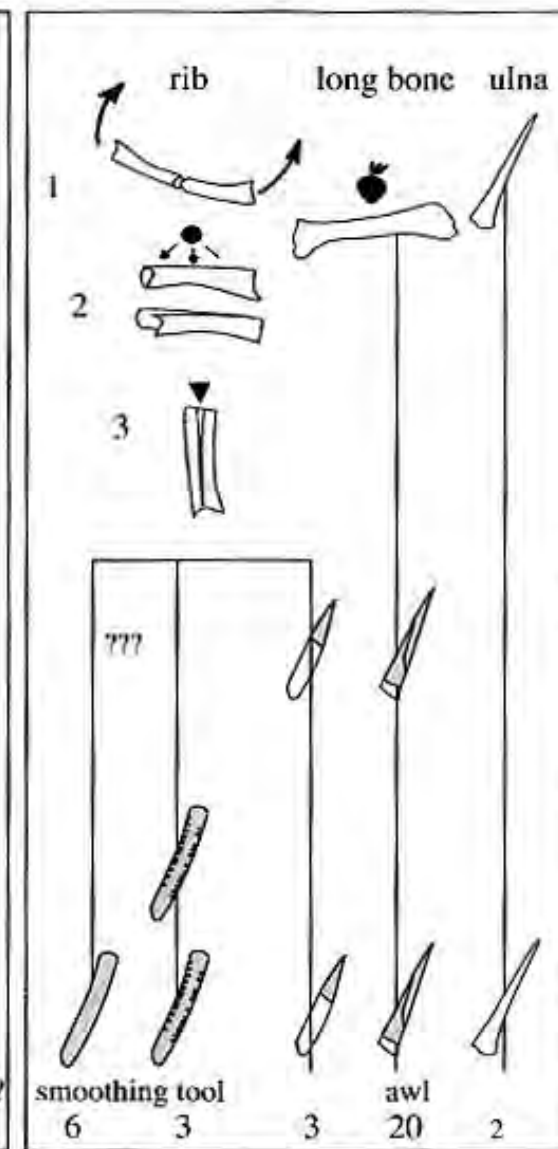
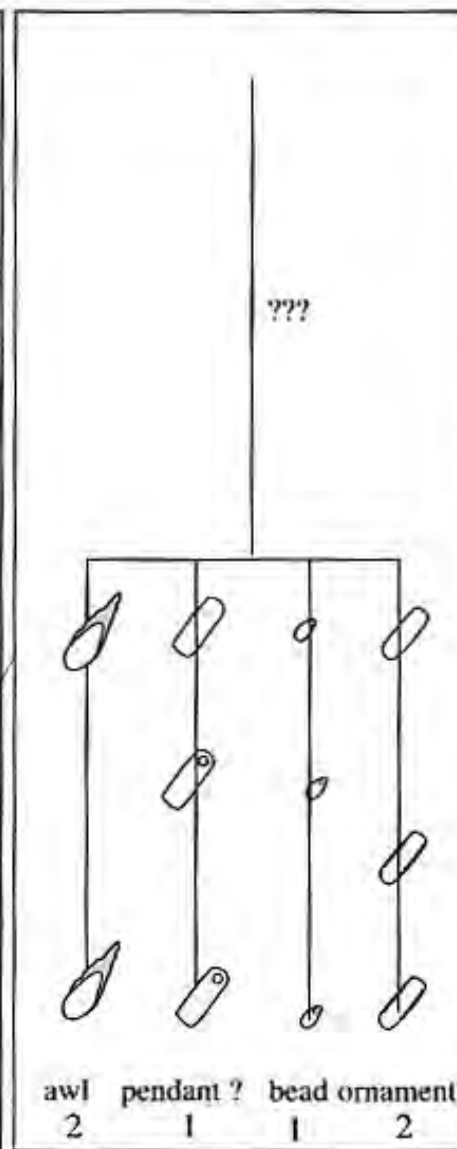
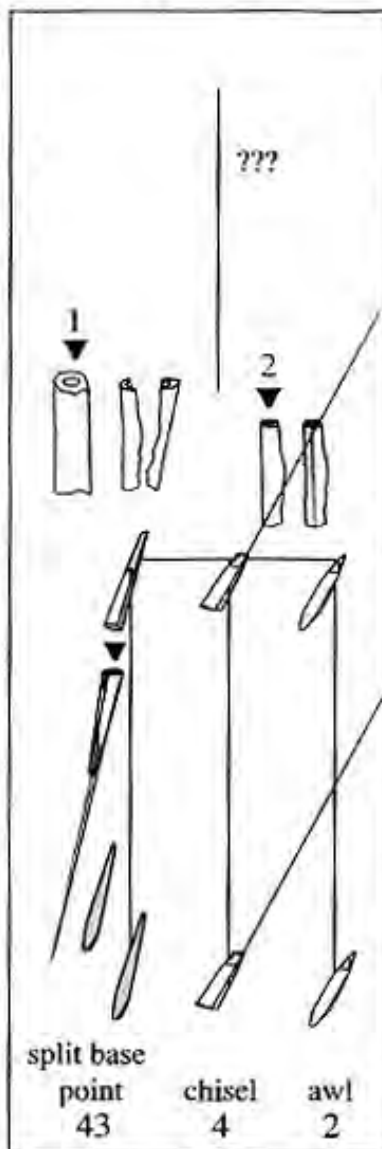
boring

incising

FINISHING OF

scraping

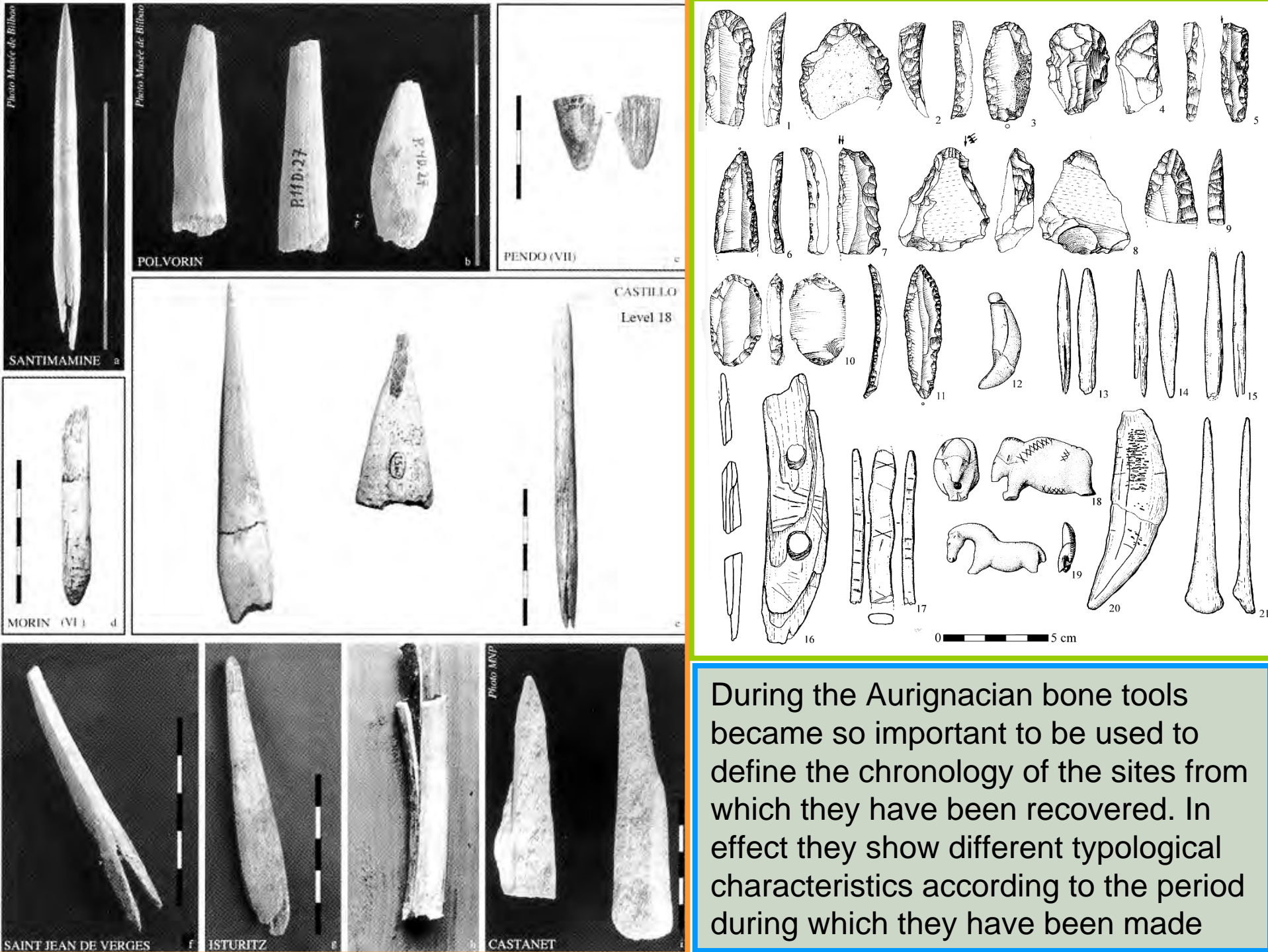
USE



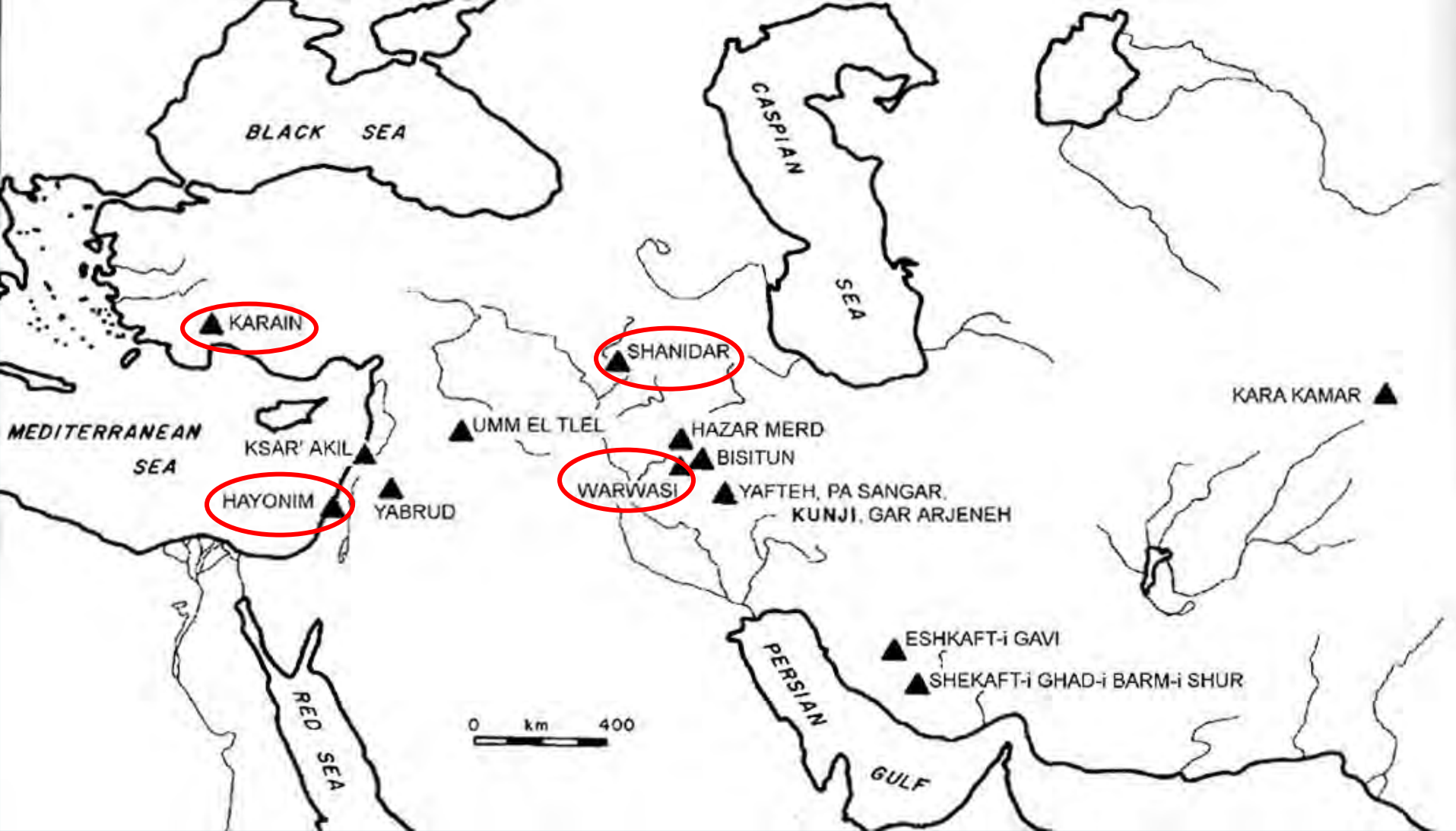
unshaped  
shaped

Bone, ivory and antler tools were also manufactured following the above technique



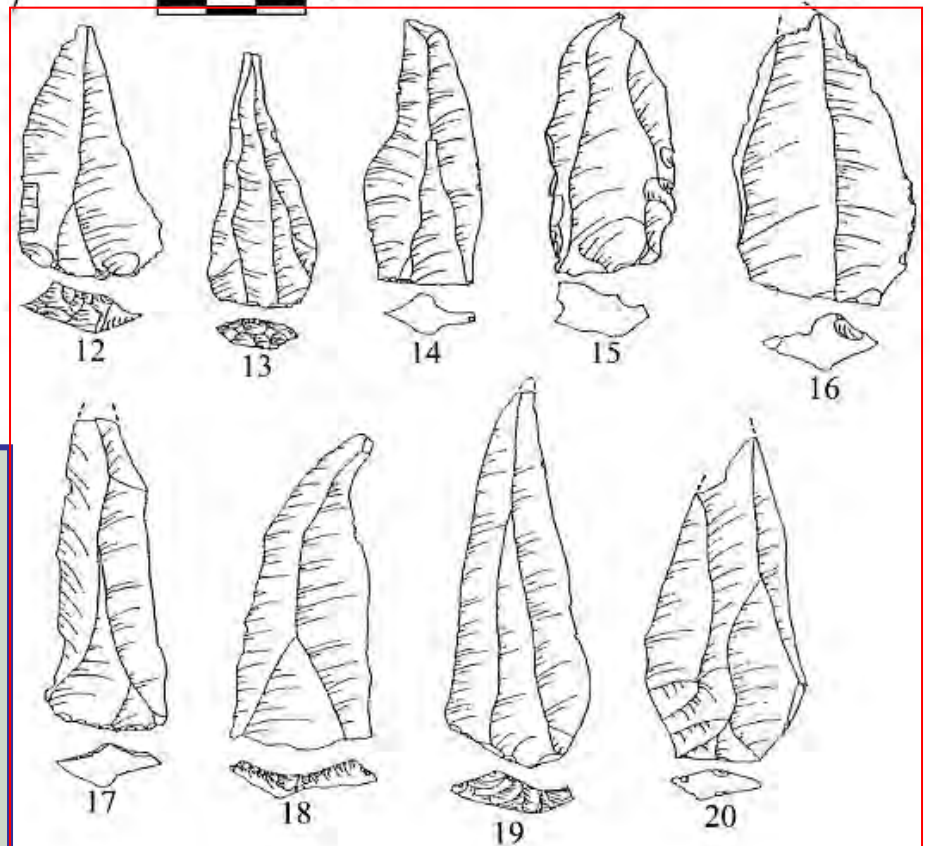
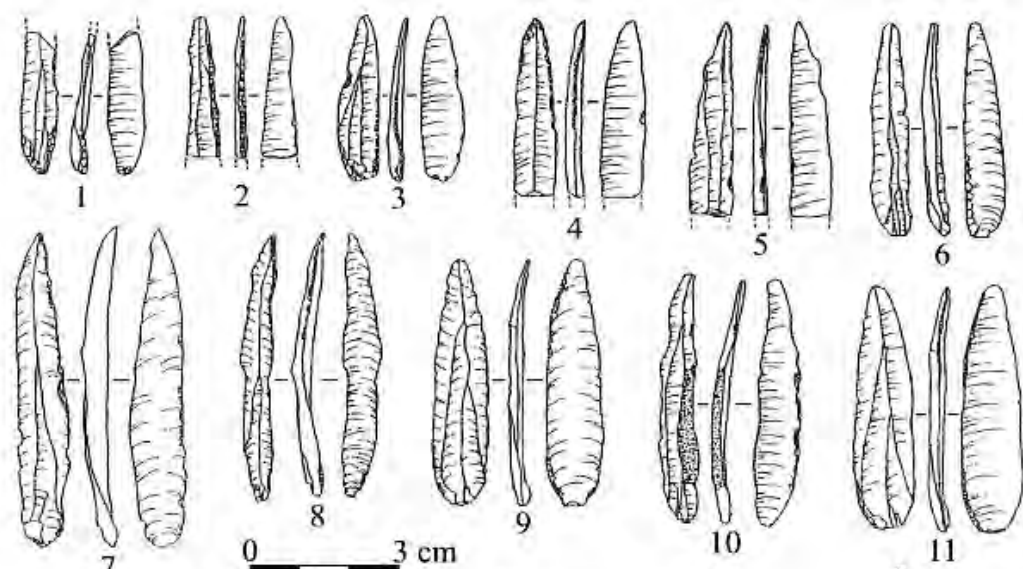
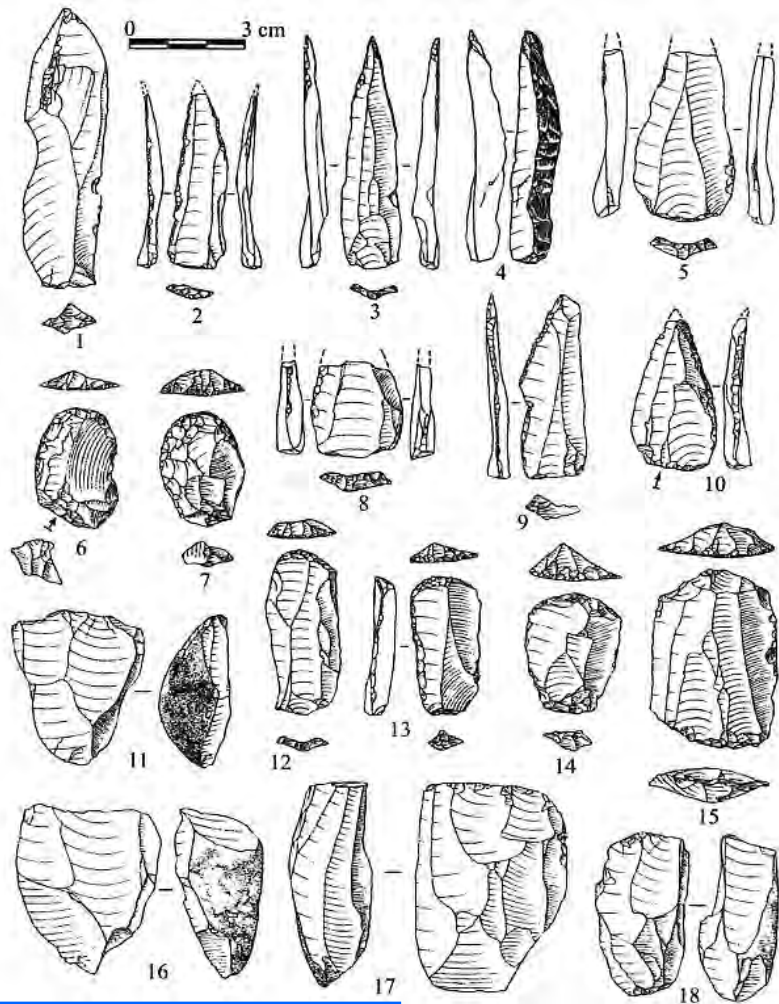






At present a few cave sequences are known in the Levant and the Near East from which we can follow the development of the events that took place in these regions between the end of the Middle Palaeolithic and the Upper Palaeolithic times. The sites mentioned in the text are marked in red, although others are important, among which is Ksar' Akil in Lebanon, for instance





Early Late Palaeolithic assemblages from Uchagizii Cave in southeast Anatolia, with elongated points resembling the Levallois types (right)



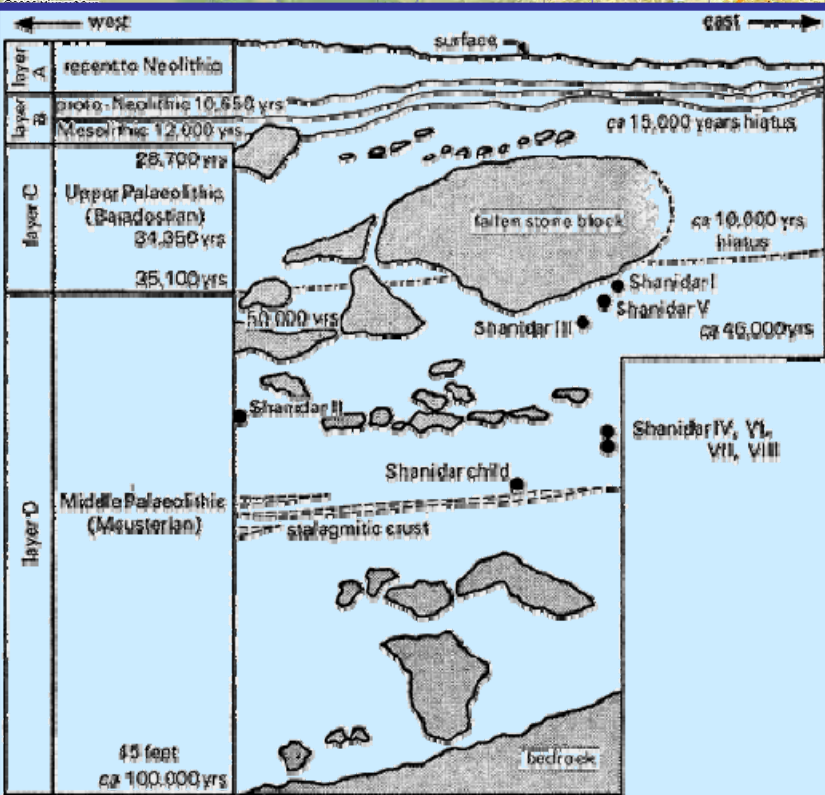
## Shanidar Cave



The cave of Shanidar opens along the eastern bank of the Great Zap River, in the Iraqi Kurdistan.

The excavations carried out by R. Solecki in the 1950's brought to light an important stratigraphy with different phases of Middle and Late Palaeolithic occupation



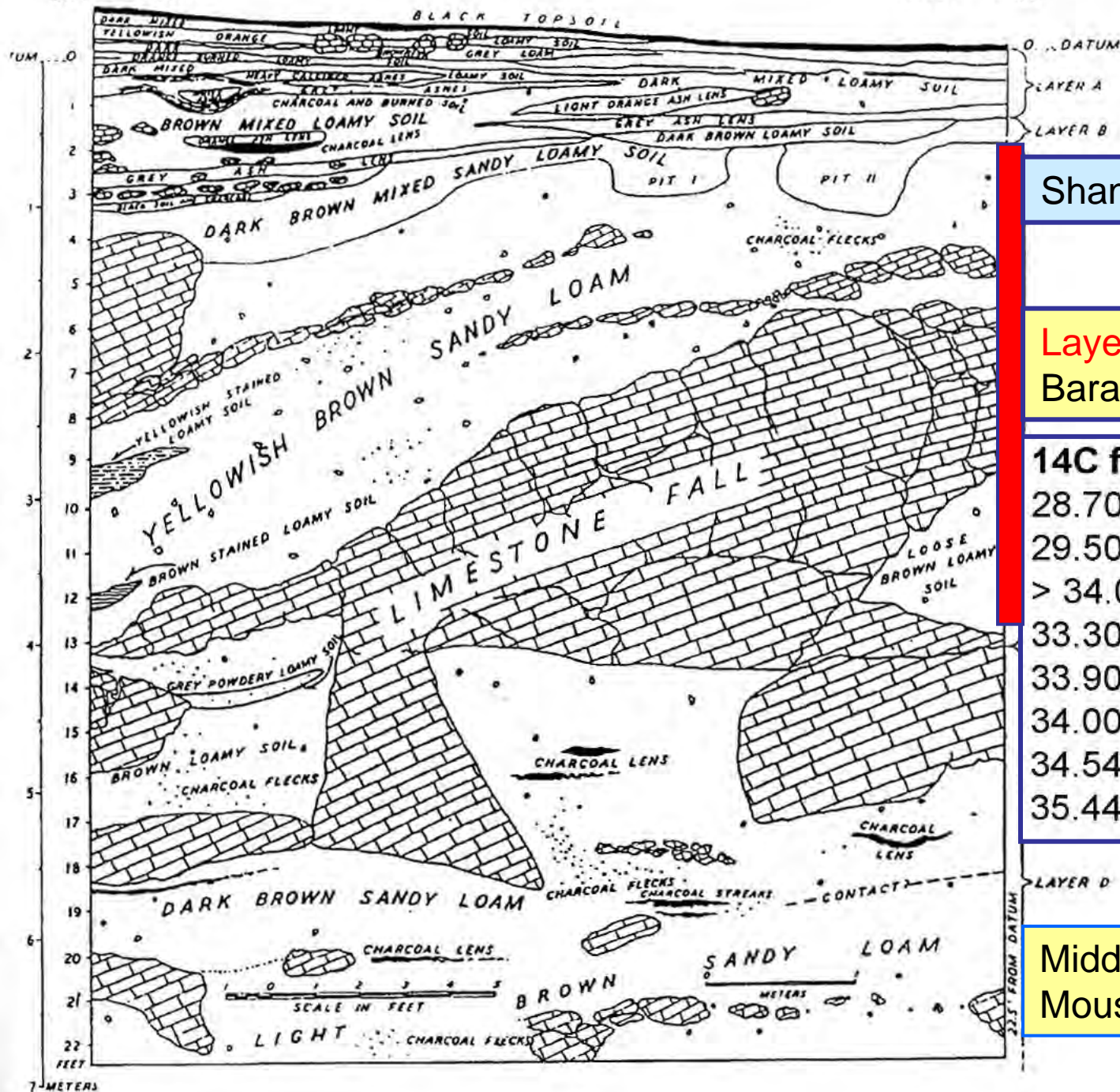


Location of Cave Shanidar in the mountains of Iraqi Kurdistan (top left). Solecki's excavations were opened at the entrance of the large cave, down to the bedrock. Of great importance was the discovery of many Neanderthal burials and isolated bones inside the Mousterian sequence



OW4 ← WEST

EAST → 00



Shanidar Cave sequence

**Layer C:** Late Palaeolithic  
Baradostian Culture

**14C for Layer C:**

28.700 ± 700 BP (W-654)

29.500 ± 1.500 BP (W-178)

> 34.000 BP (W-180)

33.300 ± 1.000 BP (W-650)

33.900 ± 900 BP (GrN-1830)

34.000 ± 420 BP (GrN-1494)

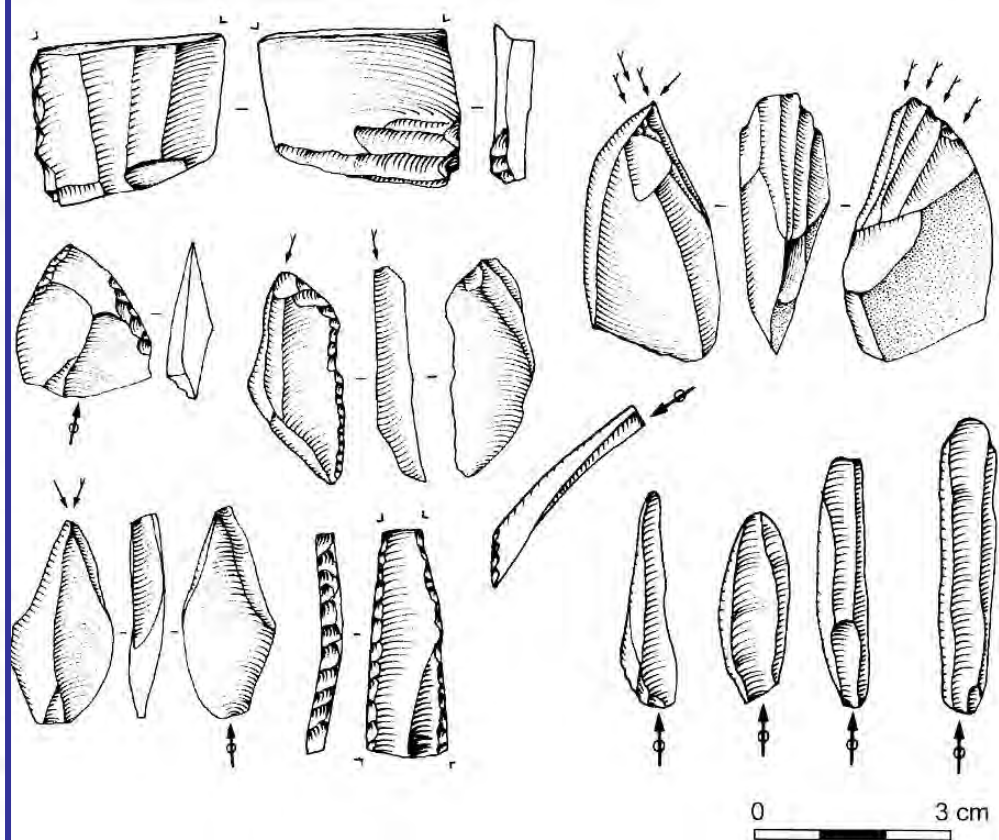
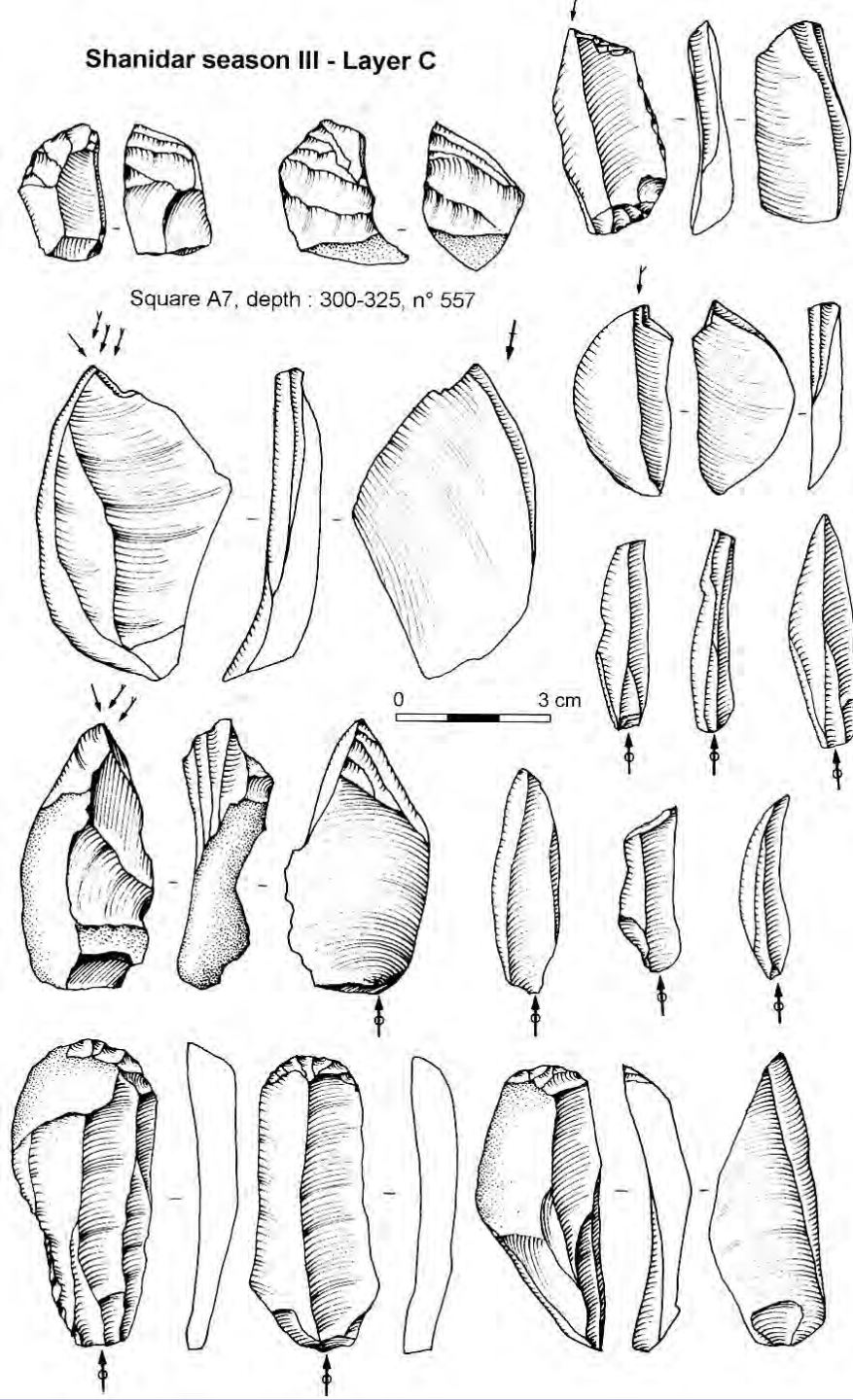
34.540 ± 500 BP (GrN-2015)

35.440 ± 600 BP (GrN-2016)

Middle Palaeolithic  
Mousterian Culture



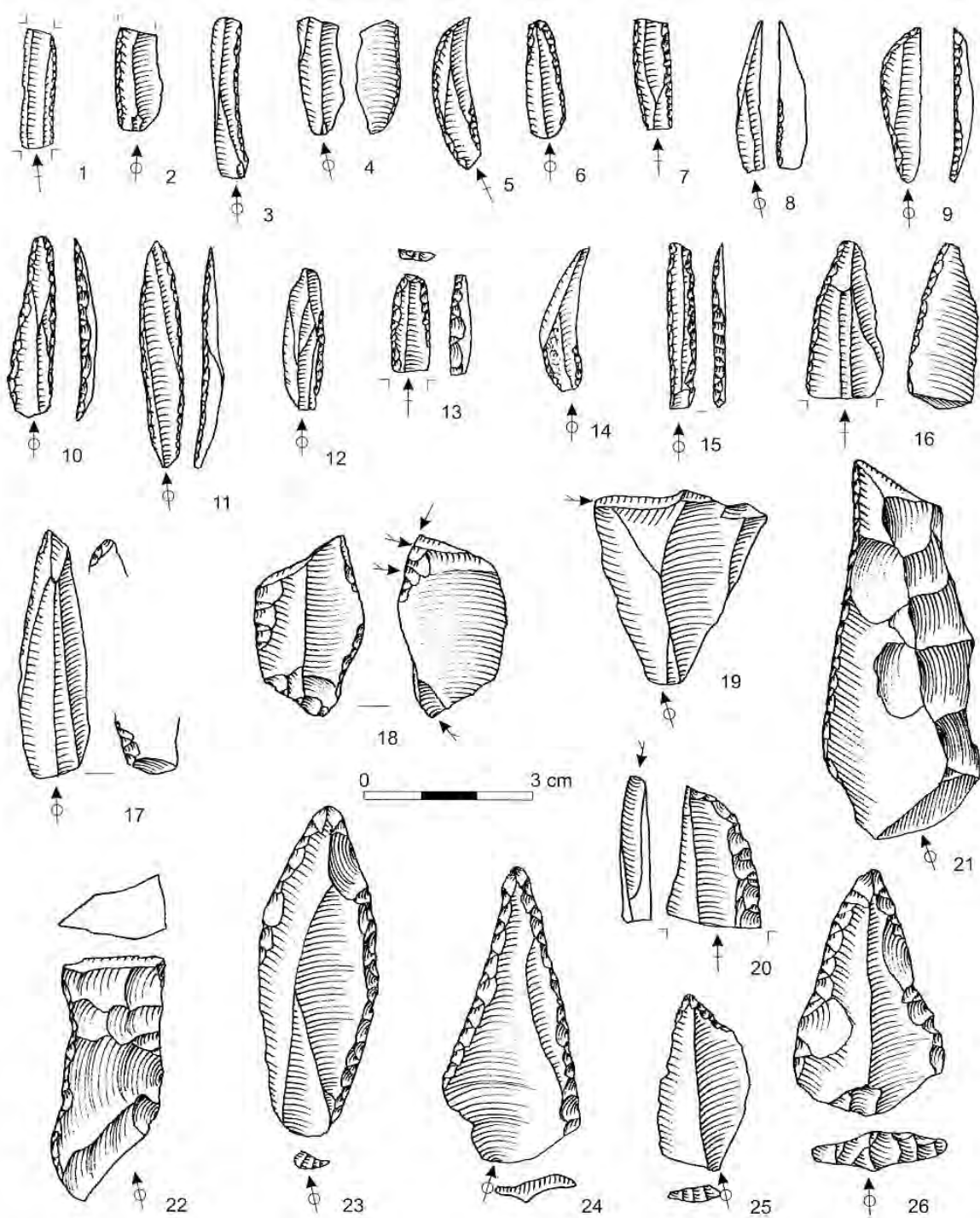
Shanidar season III - Layer C



Layer C of Shanidar Cave yielded evidence of Early Late Palaeolithic occupations that the author of the excavations attributed to the Baradostian Culture. This aspect can be compared with the Aurignacian of other regions of Eurasia. Like the Aurignacian it is characterised by typical Late Palaeolithic tools among which are Burins, End scrapers and other tools made from blades/bladelets

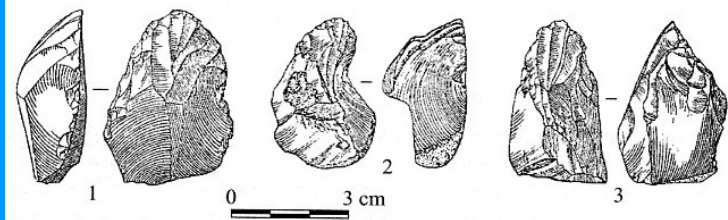


## Bisutin Cave



Aurignacian assemblages are known also from Iran (right) and Afghanistan (below) as well as from the Caucasus and part of Central Asia.

The typical blade assemblage on the right comes from Warwasi that is considered one of the key sites in the Zagros Mountains of western Iran



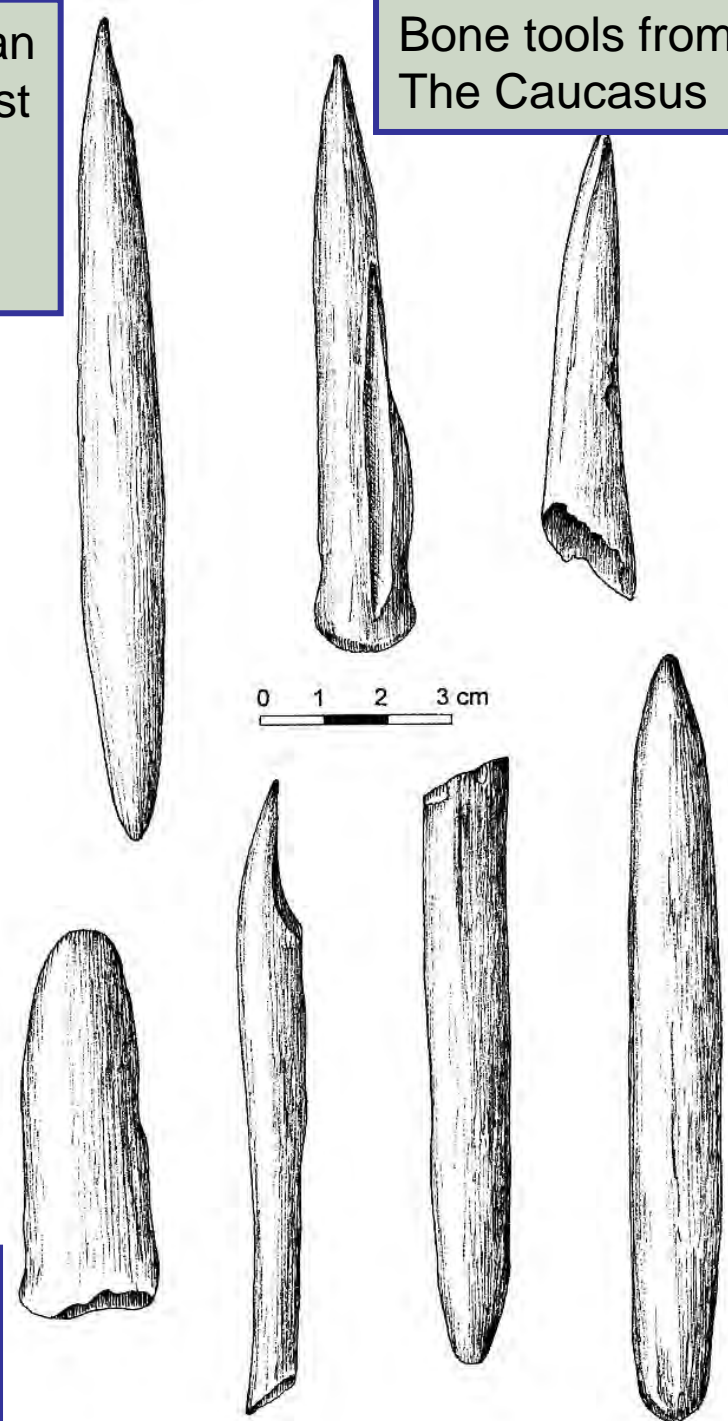


Important Aurignacian Sites in the Near East and Crimea with comparable chipped stone assemblages

Bone tools from The Caucasus

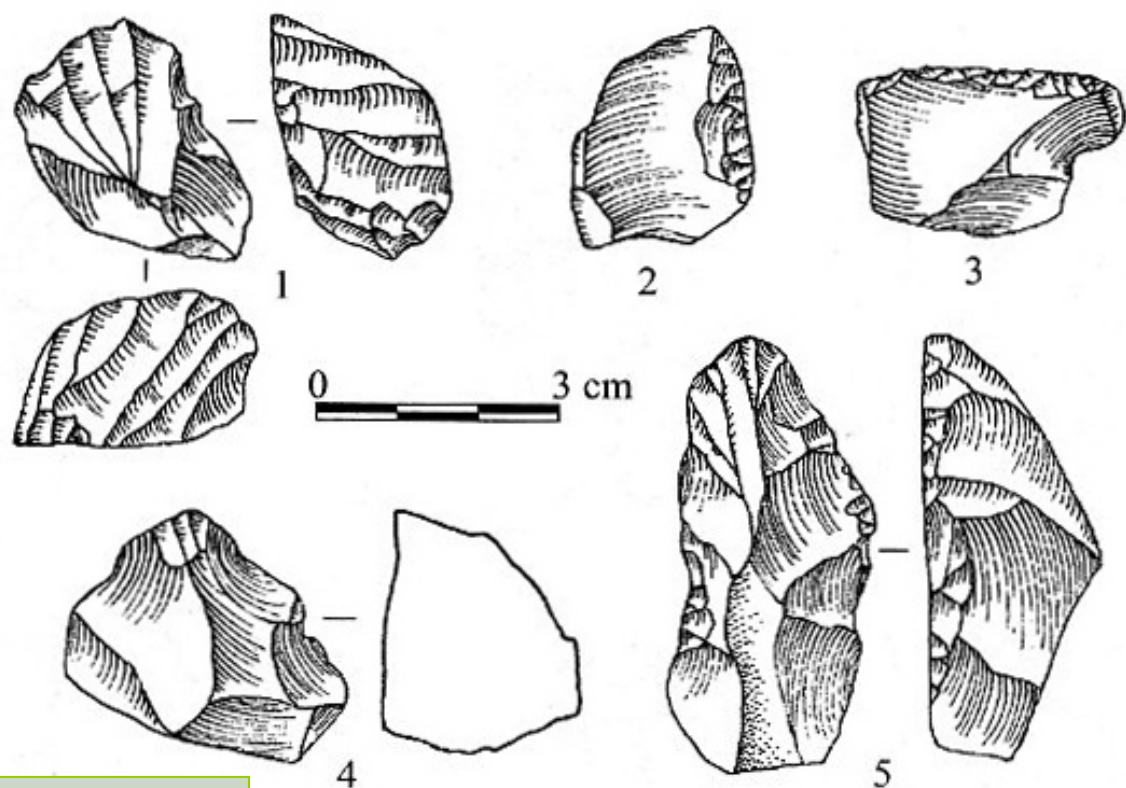
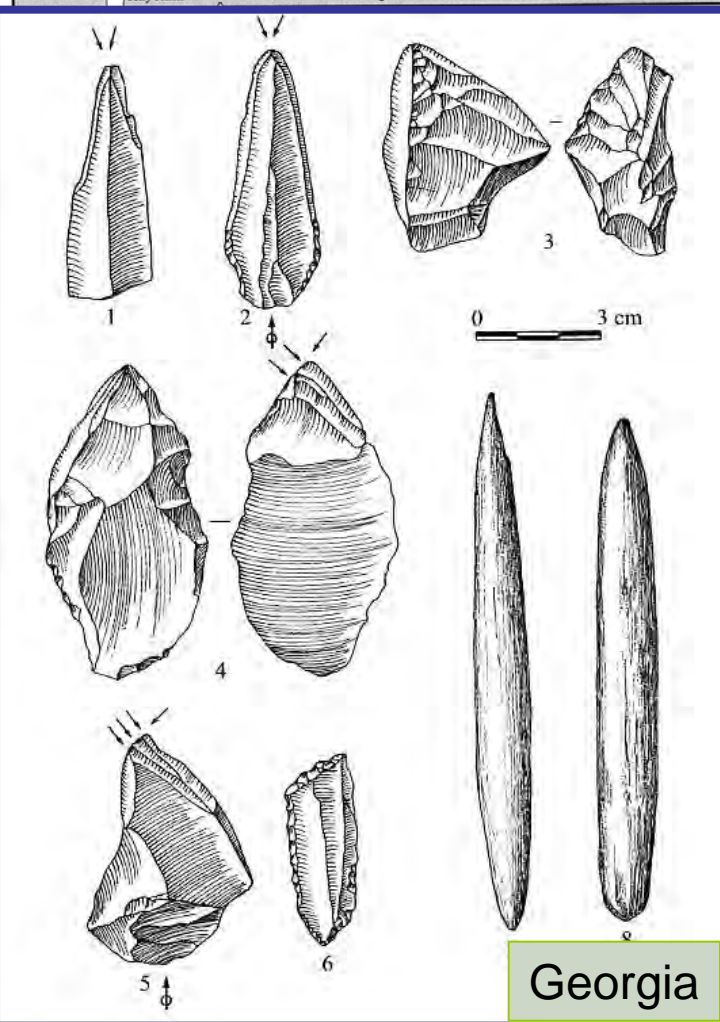
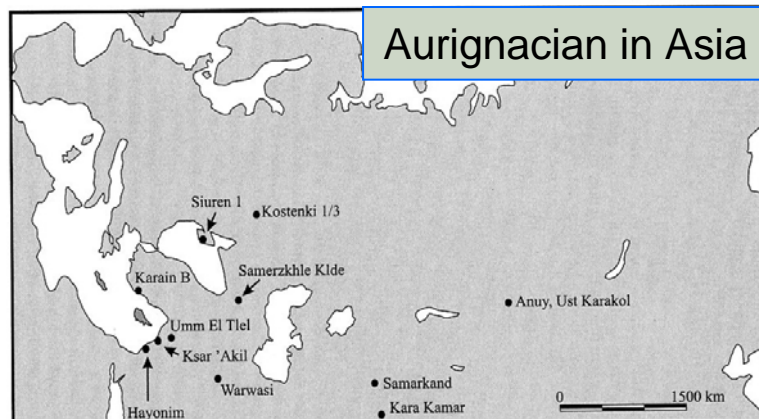


Aurignacian End Scrapers and bladelets

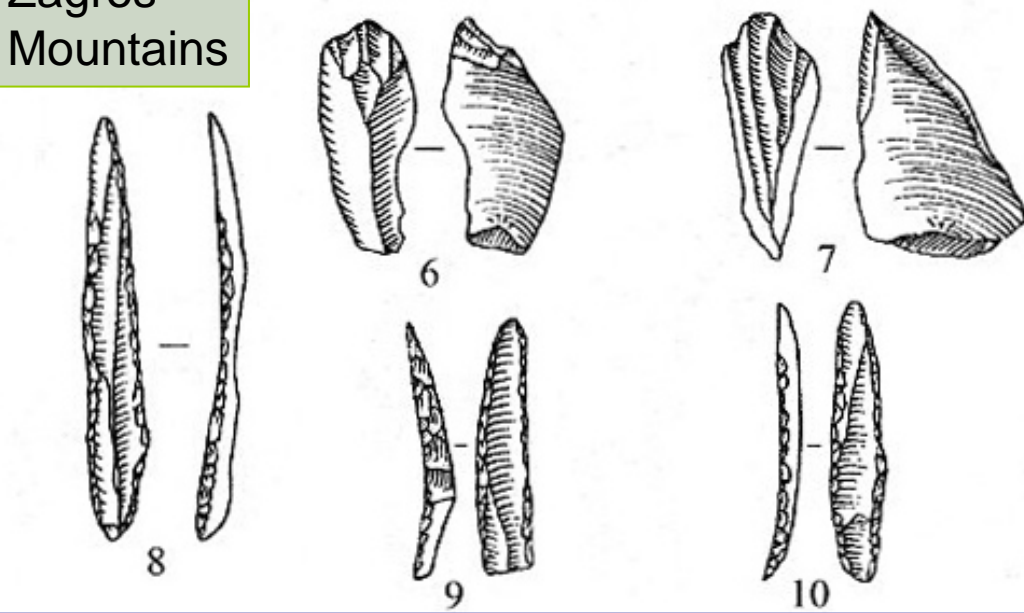




# Aurignacian in Asia



## Zagros Mountains

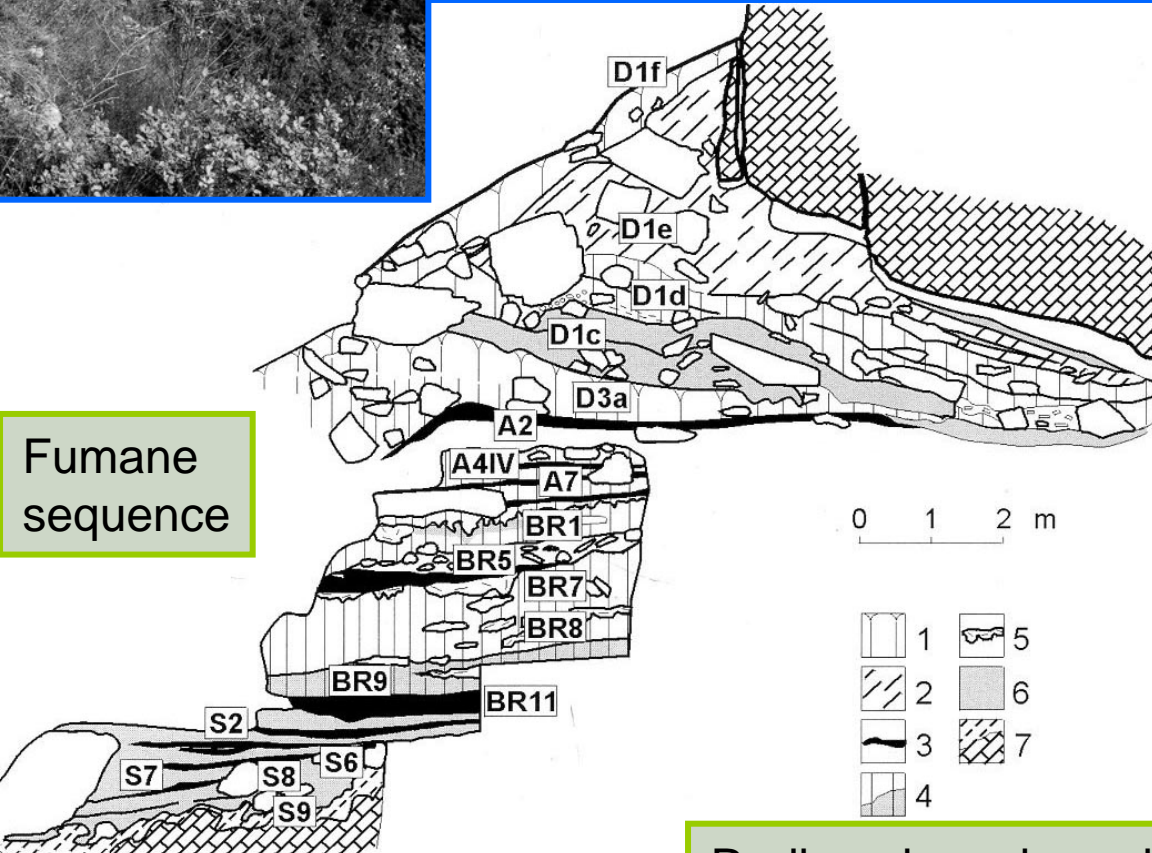


Georgia



The Fumane rock-shelter is located in the Venetian Pre-Alps of northeastern Italy. The excavations still underway revealed a long sequence during which the site was settled in Middle Palaeolithic Mousterian and Late Palaeolithic Aurignacian period

Fumane sequence

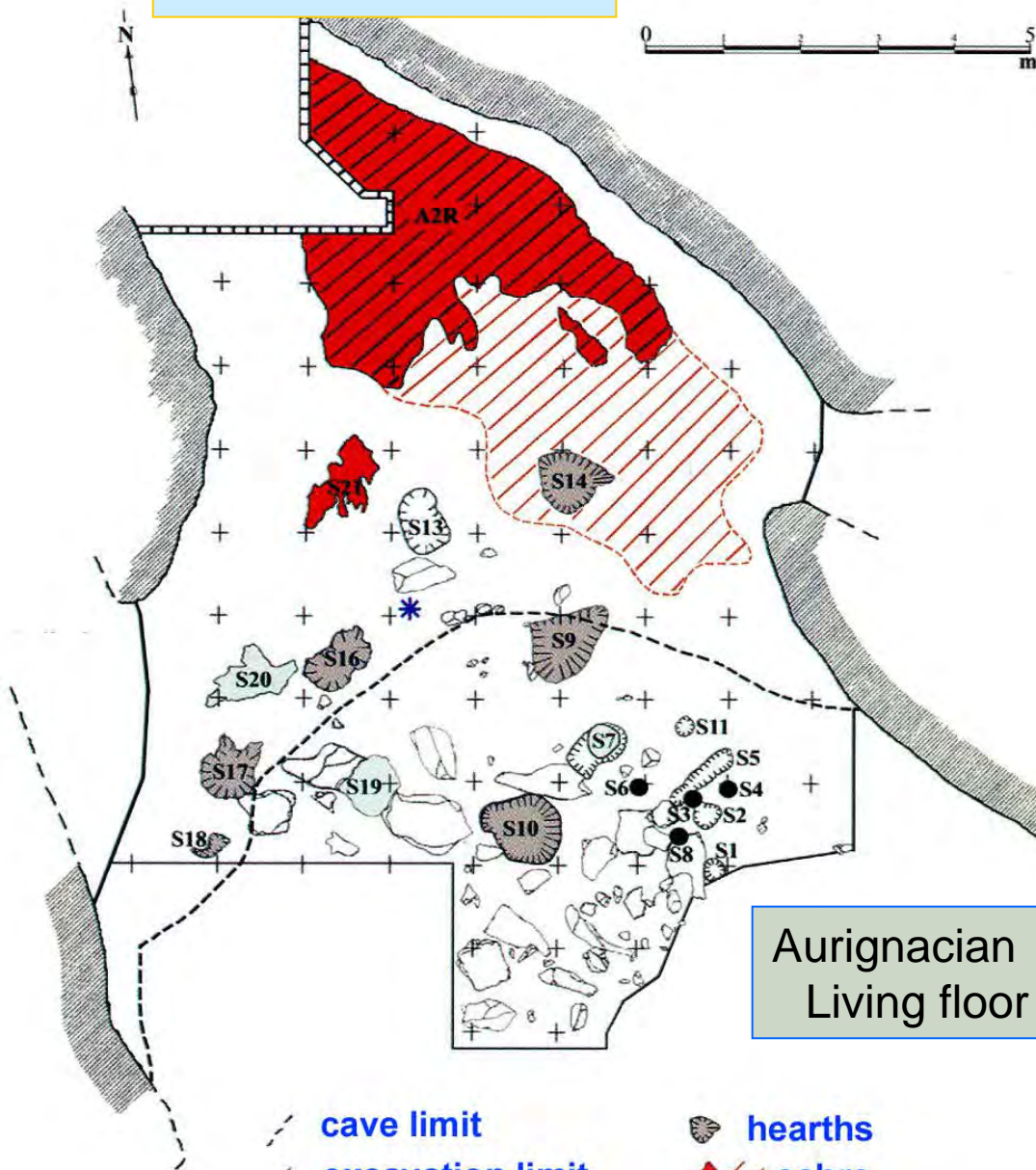


Radiocarbon chronology

| Unità                 | Rif.to lab. | <sup>14</sup> C data BP |
|-----------------------|-------------|-------------------------|
| D1e                   | R-2784****  | 26890±530               |
| D1d                   | OxA-11348   | 31490±250               |
| D1d base              | LTL374A     | 29828 ± 390             |
| D1d base              | UtC-2050    | 30700±400               |
| D3b                   | UtC-1775    | 31700±1200/-1100        |
| D3b                   | UtC-2045    | 32300±400               |
| D3ba str. 15 – liv. A | OxA-8050    | 30320±320               |
| D3ba str. 15 – liv. A | OxA-8051    | 32020±340               |
| D6                    | UtC-2046    | 32300±500               |
| D6                    | OS-5872***  | 37100±240               |
| A1                    | UtC-2049    | 31900±500               |
| A2                    | UtC-2047    | 32100±500               |
| A2                    | OxA-11347   | 30650±260               |
| A2                    | OxA-11360   | 31830±260               |
| A2                    | UtC-2048    | 36500±600               |
| A2                    | OxA-8054    | 33160±400               |
| A2                    | OS-5999***  | 32000±90                |
| A2                    | OS-5871***  | 32700±140               |
| A2R                   | LTL375A     | 34312 ± 347             |
| A2 – str. 9           | UtC-2044    | 31600±400               |
| A2 – str. 10          | UtC-2051    | 32800±400               |
| A2 – str. 10          | UtC-1774    | 40000±4000/-3000        |
| A2 – str. 16          | Ly-9920*    | 31300±395               |
| A2 – str. 19          | Ly-1286 OxA | 32415±1045              |
| A2 – str. 19          | GrA-16231** | 33140±460               |
| A2 str. 14 – top      | OxA-6566    | 31900±1100              |
| A2 str. 14 – top      | OxA-8052    | 34120±460               |
| A2 str. 14 – liv. A   | UtC-2688    | 36800±1200/-1400        |
| A2 str. 14 – liv. B1  | UtC-2689    | 35400±1100/-1300        |
| A2 str. 14 – liv. B2  | UtC-2690    | 34200±900/-1100         |
| A2 str. 14 – base     | OxA-6465    | 31620±500               |
| A2 str. 14 – base     | OxA-8053    | 33640±440               |
| A4II                  | OxA-8021    | 33300±400               |
| A4II                  | OxA-6462    | 33150±600               |
| A5                    | OxA-6463    | 33700±600               |
| A6                    | OxA-6464    | 34950±700               |
| A6                    | OxA-11331   | 34400±800               |
| A6                    | R-2758*     | >29000                  |
| A6                    | R-2759*     | >35000                  |
| A5+A6                 | OxA-8022    | 38800±750               |
| A5+A6                 | OxA-8023    | 38250±700               |
| A9                    | OxA-11346   | 39950±550               |
| A9                    | LTL376A     | 42751±720               |
| A9                    | R-2757*     | >31400                  |
| A10                   | LTL377A     | 41327±730               |
| A11                   | LTL378A     | 42004±760               |

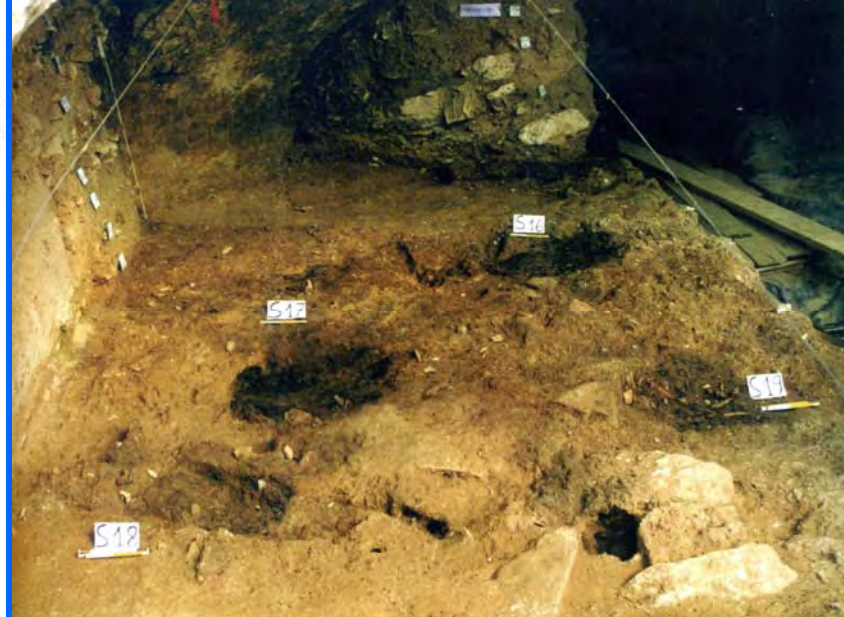


# Fumane rock-shelter



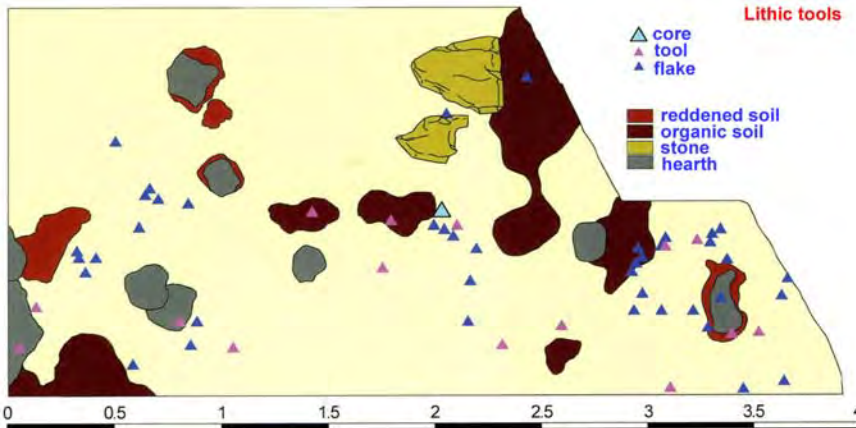
Aurignacian  
Living floor

- - - cave limit
- excavation limit
- \* ibex skull
- ☉ depressions
- ☼ hearths
- ☼ ochre
- ☼ pits
- postholes

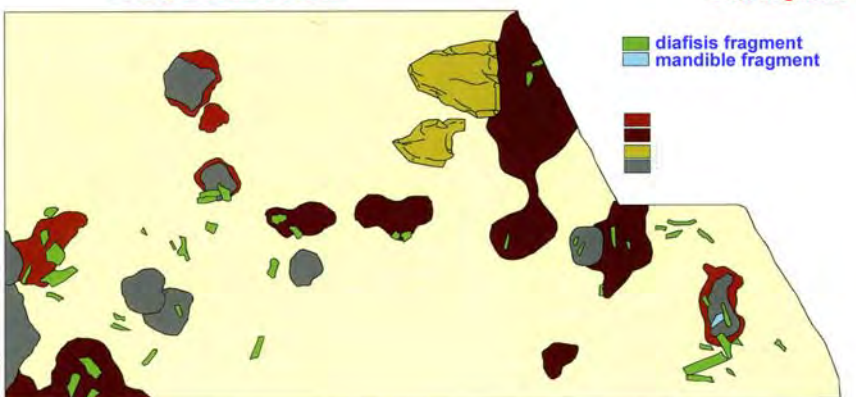


An Aurignacian surface with different types of structures and hearths was uncovered during the excavations at Fumane rock-shelter





Aurignacian surface



Bone fragments

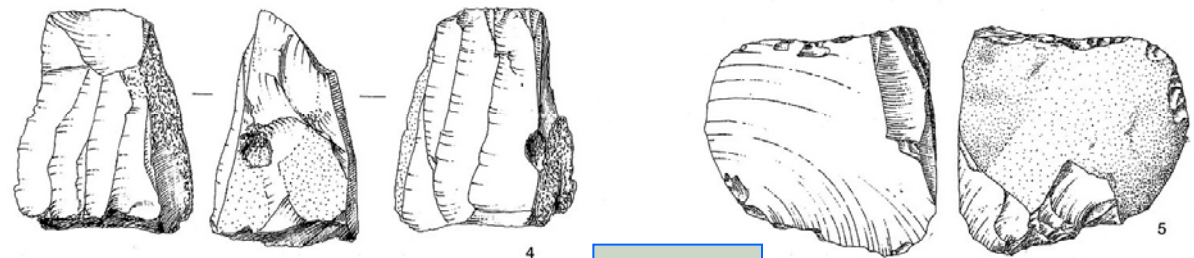
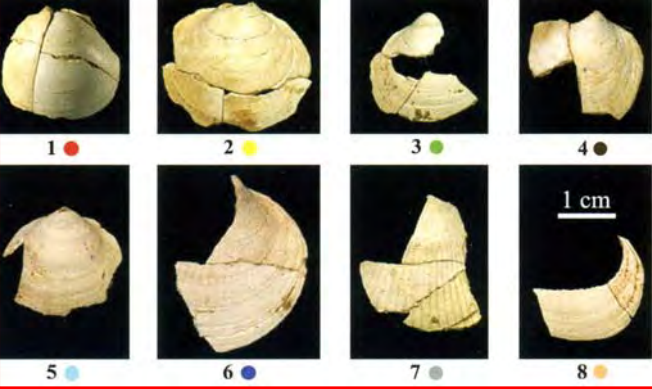


Fireplace on the Aurignacian surface

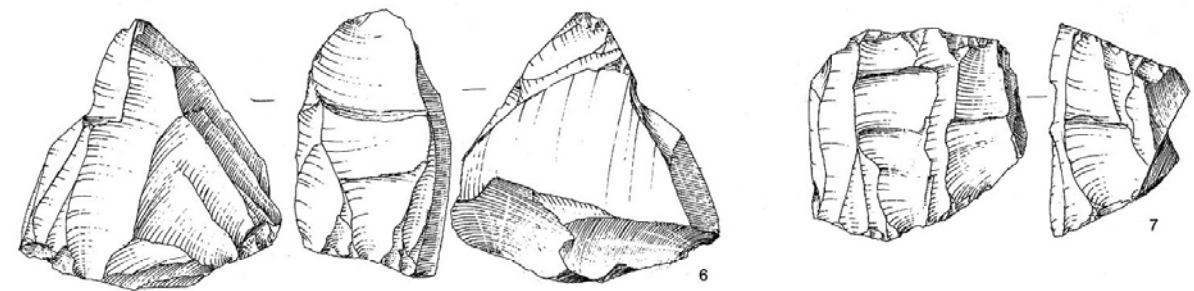


The Aurignacian surface *in situ* was found just above a long Middle Palaeolithic sequence. Although so far only a small part of it has been cleared, the finds show that Fumane rock-shelter had been settled several times by a community of modern humans who had decorated the walls of the shelter with red painted figures

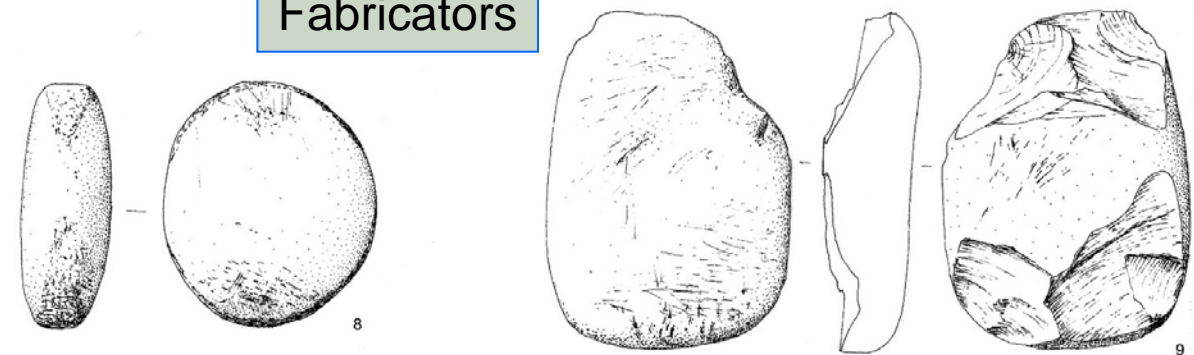




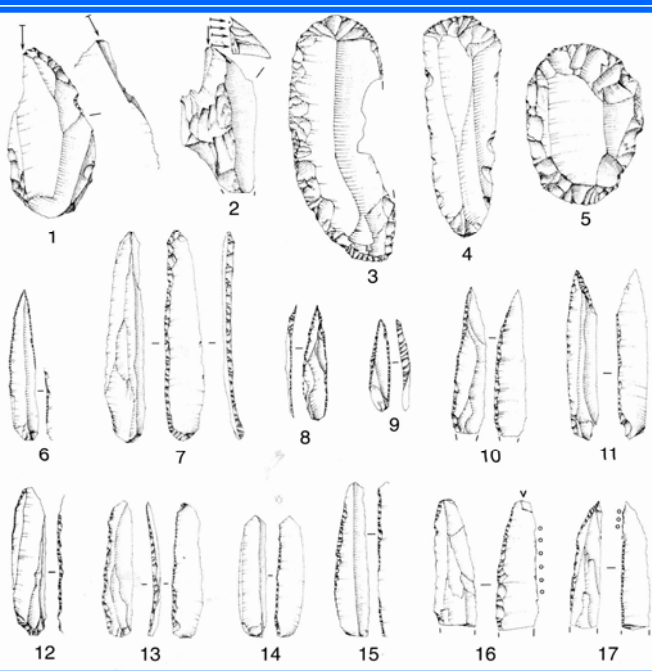
Cores



Fabricators



The lithic assemblage is typical for the Aurignacian. The presence of a few marine shells (top) indicates the wide activity radius of the first modern humans







The bone tools inventory is represented by many types among which are points, spatulae and pendants



At Fumane the presence of red ochre levels had been noticed in the profile of a few sections (right). Ochre had been used to decorate the shelter walls and ceiling with different patterns



Fragments of ochre red painted walls





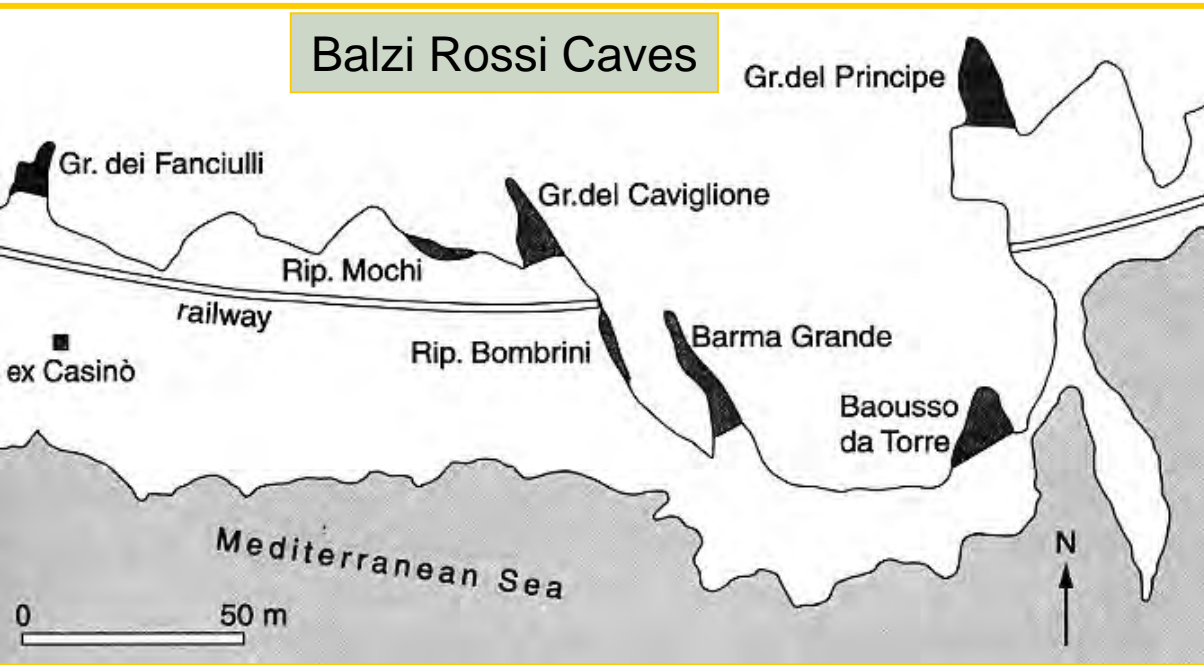


The most impressive limestone fragment collected from the Aurignacian surface is a human representation, dropped from the shelter vault, interpreted as a shaman. This discovery is particularly important because it provides us with a new idea of the Aurignacian art. Painted human figures of this period type were absolutely unknown before the Fumane discovery



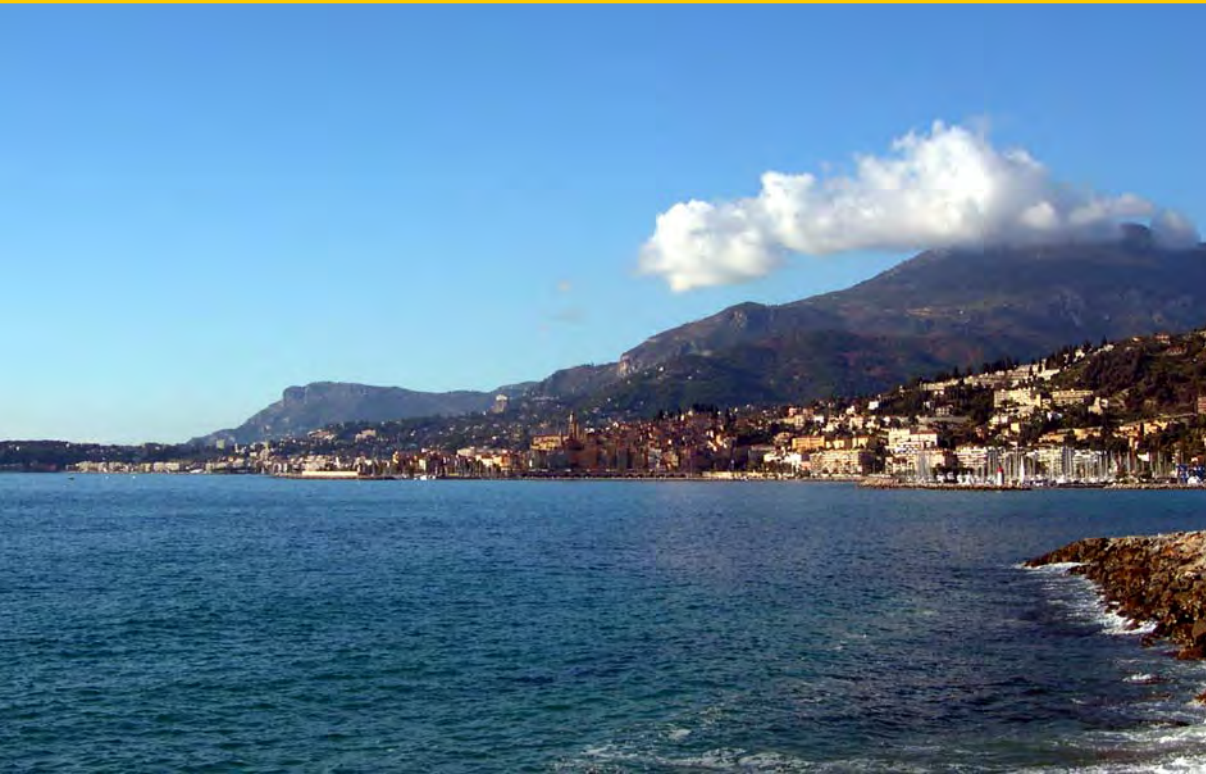


## Balzi Rossi Caves



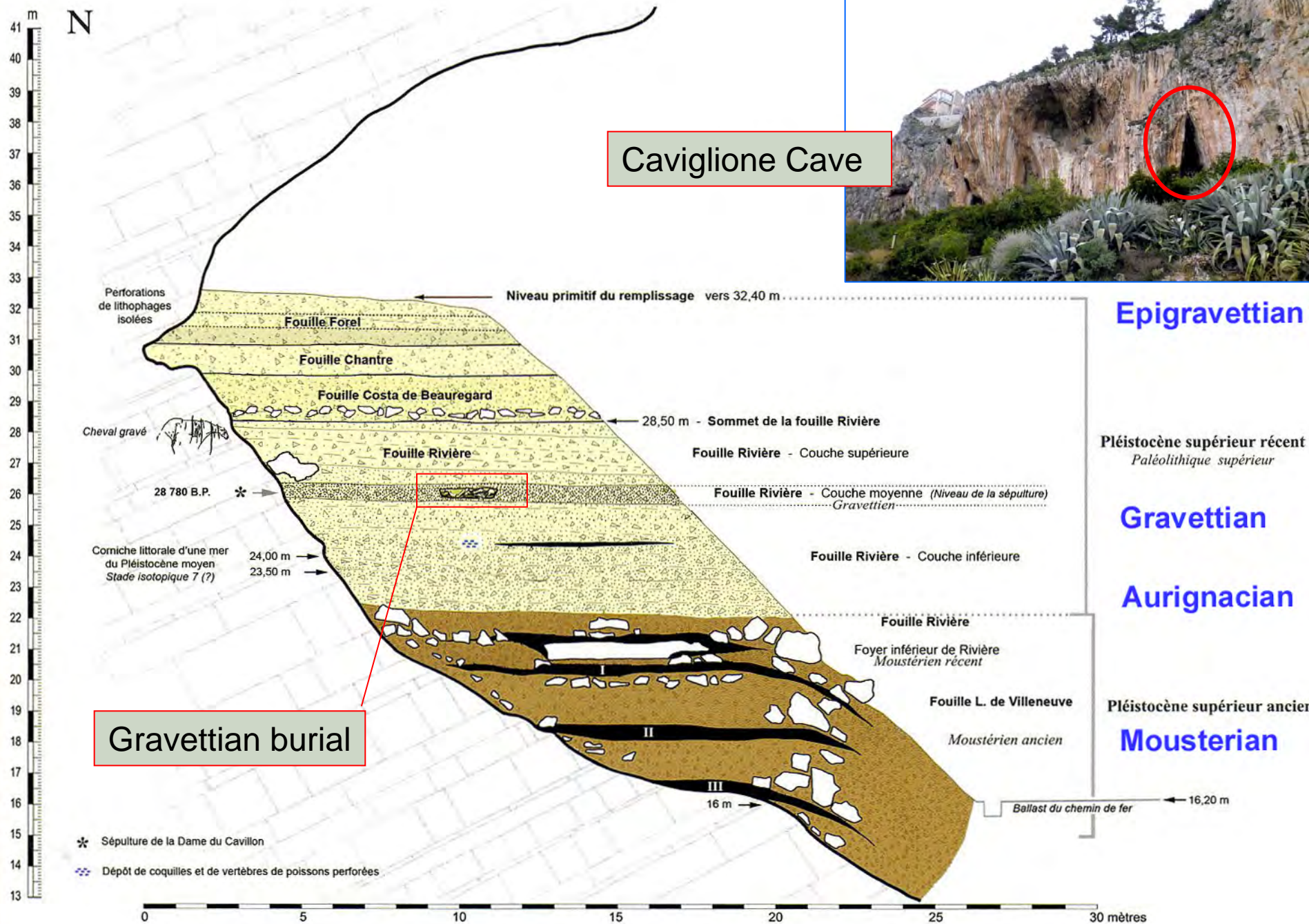
The Aurignacian is known from many of caves and rock shelters that open at the Italian-French border, in the place called Balzi Rossi (Red slopes).

The excavations carried out since the 1850s by both Italian and French archaeologists have shown the importance of this coastal region for the study of the Middle and Late Palaeolithic periods





# Typical Middle to Late Palaeolithic sequence from the Caviglione Cave (Balzi Rossi)





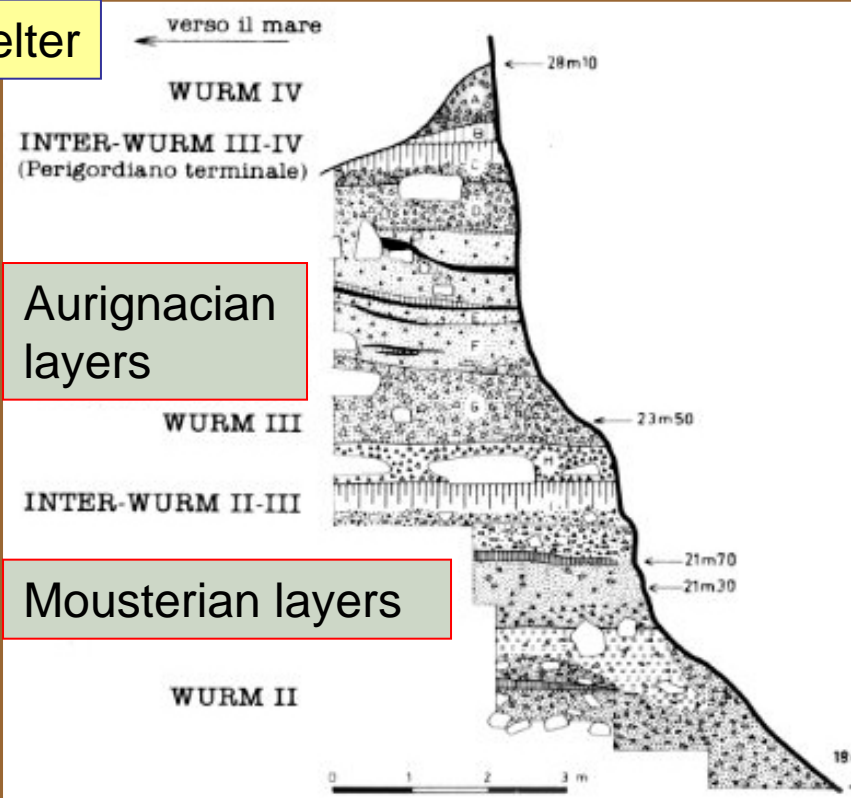
## Mochi rock-shelter



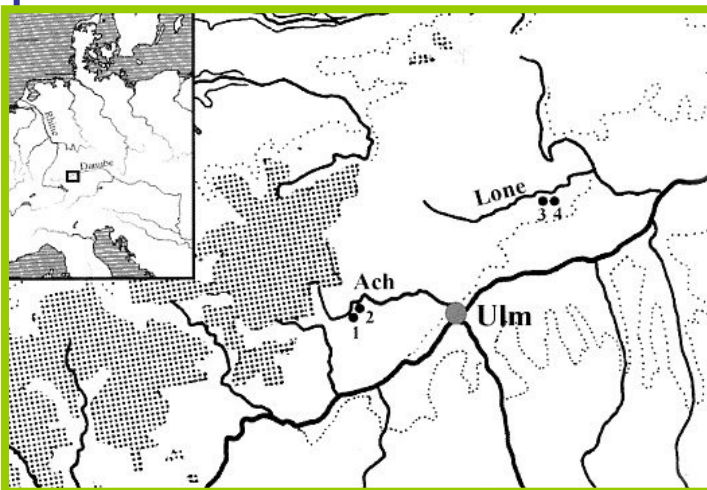
Aurignacian  
layers

Mousterian layers

The Mochi rock-shelter is another important site of the Balzi Rossi. The sequence brought to light during the excavations, still underway, has shown evidence of both Middle and Late Palaeolithic occupations. The site, as the others of the Balzi Rossi, at present is located close to the sea shore, while during the Palaeolithic it was a few kilometres away







Ivory and bone figurines



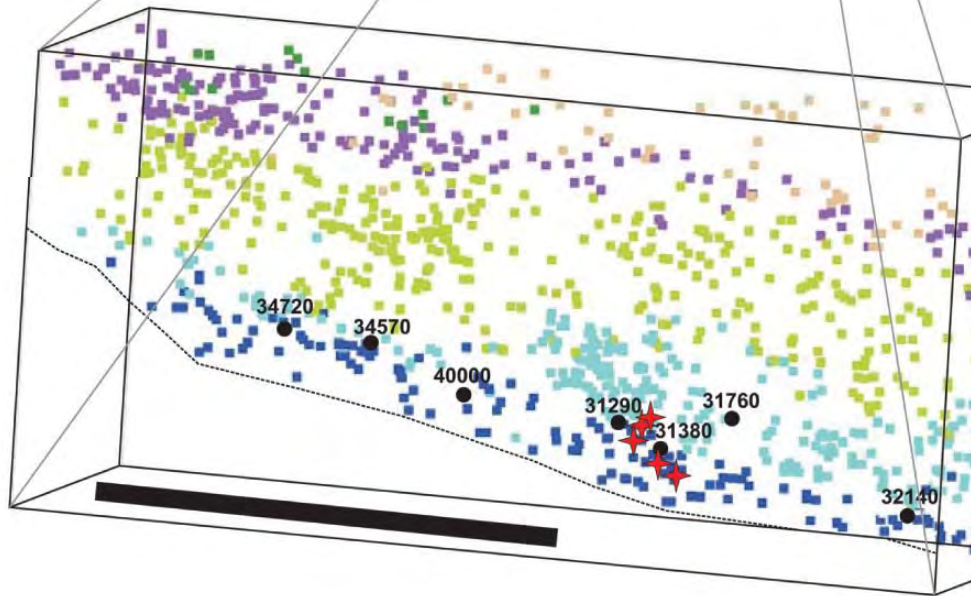
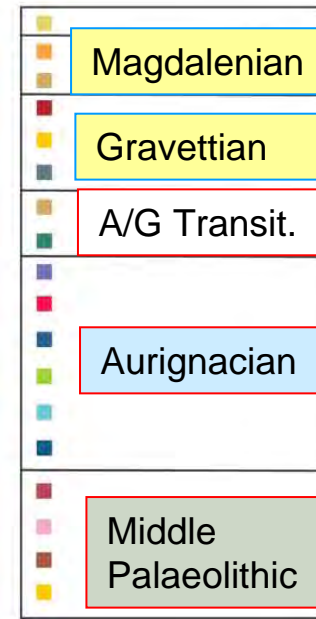
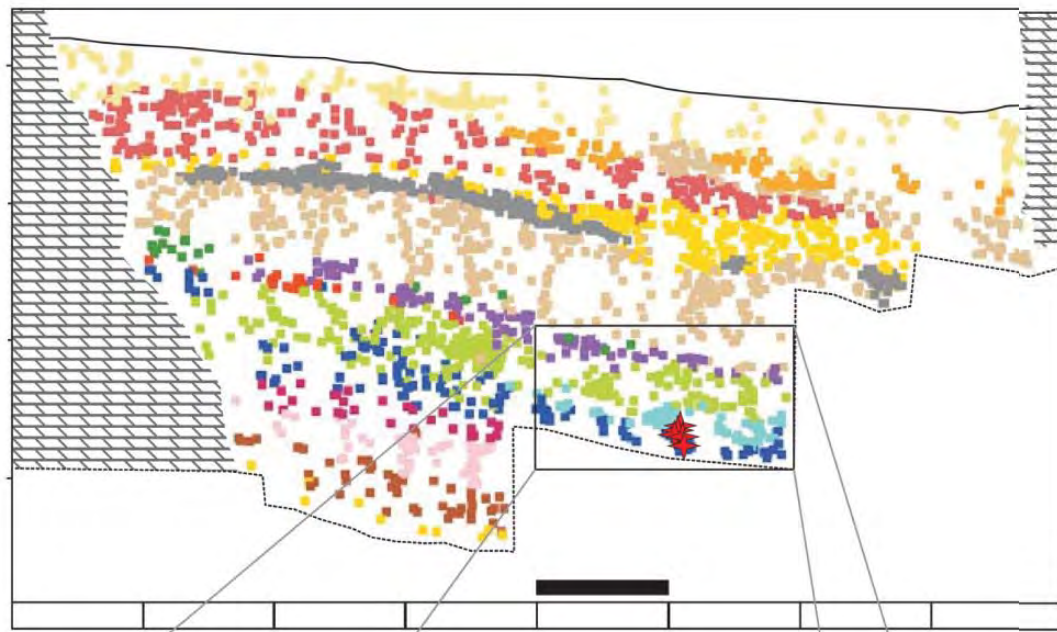
Art began to develop during the Aurignacian period. The most impressive human and animal mobile art representations come from caves that open along the rivers of south-western Germany



# Hohle Fels Venus, Southwest Germany

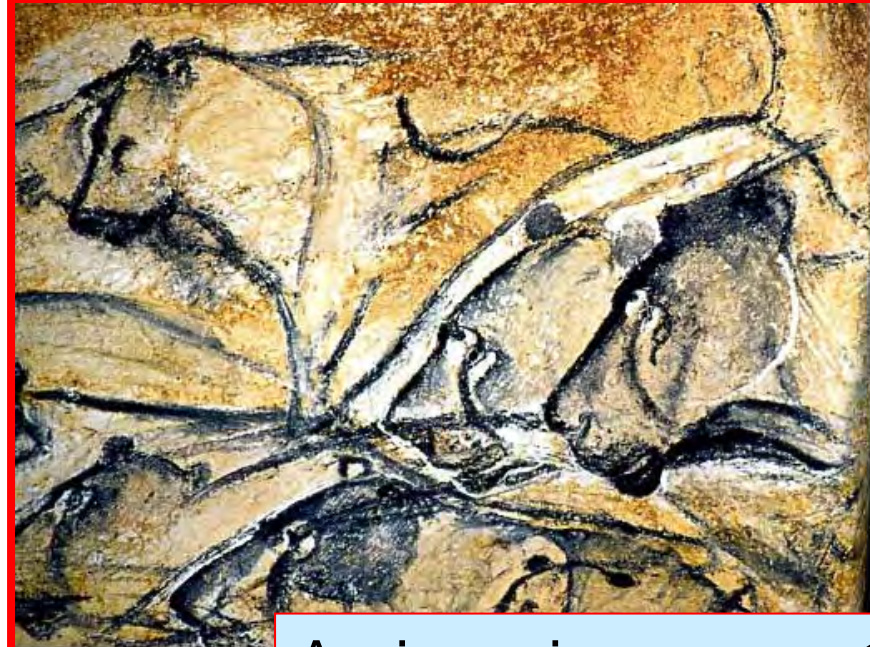






Stratigraphic sequence of Hohle Fels with the radiocarbon dates regarding the Venus

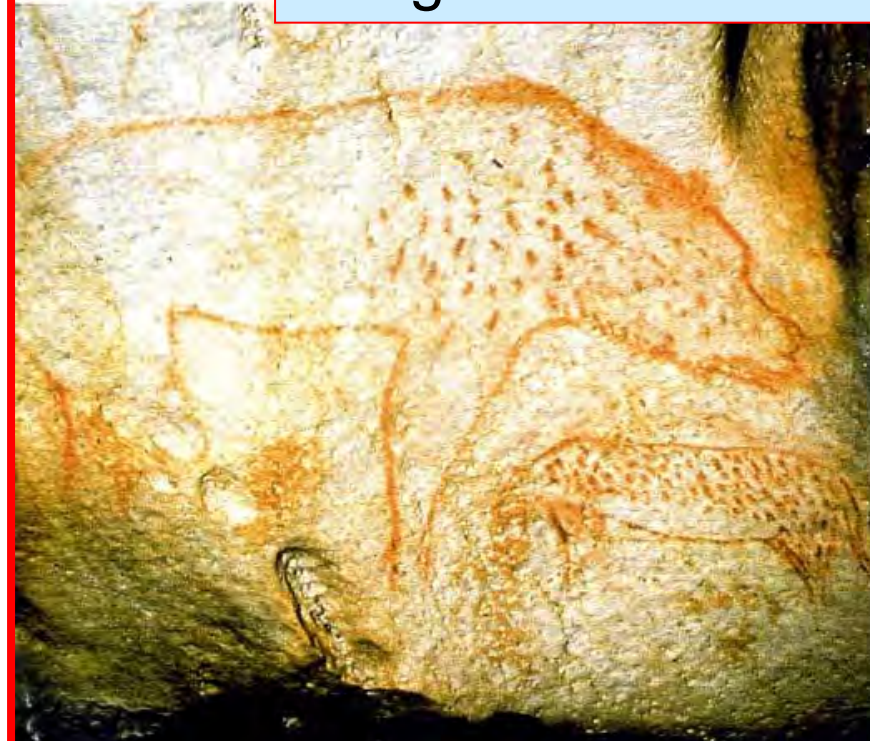




Aurignacian cave art



2





# References

Laplace, G. 1977 - Il Riparo Mochi ai Balzi Rosi di Grimaldi (Fouilles 1938-1949). Les Industries Leptolithiques. *Rivista di Scienze Preistoriche* 32: 3-131

Soffer, O. and Gamble, C. 1990 - *The World at 18000 BP. High Latitudes*. Unwin Hyman, Boston-Sidney-Wellington

Mussi, M. 2001 - *Earliest Italy. An Overview of the Italian Palaeolithic and Mesolithic*. Kluwer Academic/Plenum Publishers, New York

Conard, N. J. 2009 - A female figurine from the basal Aurignacian of Hohle Fels Cave in southwestern Germany. *Nature* 459: 248-252