Rock Art Studies: News from the Alps (2010-2014)
Claudia Defrasne

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Contents

Contributors ................................................................................................................................. iii

Preface ............................................................................................................................................... vii
  Paul Bahn, Natalie Franklin, Matthias Strecker and Ekaterina Devlet

New Developments in Pleistocene Art, 2010-2014 ................................................................. 1
  Paul G. Bahn

Rock Art Studies in the Nordic Countries 2010-2014 ............................................................. 19
  Ulf Bertilsson and Johan Ling

Post-Palaeolithic and Megalithic Art in Southern Europe, 2010-2014 ................................... 33
  Primitiva Bueno-Ramirez and Rodrigo de Balbin-Behrmann

News from the Alps (2010-2014) .............................................................................................. 43
  Claudia Defrasne

Recent Work on Saharan rock art (2010-2014) ....................................................................... 55
  Jean-Loïc Le Quellec

Rock Art in Southern Africa: New Developments (2010-2014) ........................................... 75
  Jean-Loïc Le Quellec

Recent Work in the Near East ..................................................................................................... 89
  S. Lemaitre

Rock Art Studies in Northern Russia, the Urals and the Far East 2010-2014 ......................... 97
  Ekaterina G. Devlet and Alexander S. Pakhunov

Rock Art Studies, Management and Presentation in Central Asia (2010-2014) .................. 115
  Boris Zheleznyakov and Ekaterina Devlet

Rock Art Research in Siberia in 2005-2014 .......................................................................... 127
  Elena A. Miklashevich

Mongolian Rock Art: Current Work 2010-2014 ...................................................................... 151
  Esther Jacobson-Tepfer

Rock Art Research in India 2010-2014 ..................................................................................... 155
  James Blinkhorn

Recent Rock Art Studies in Southeast Asia .............................................................................. 163
  Victoria N. Scott and Noel H. Tan

Recent Rock Art Research in China ........................................................................................... 171
  Paul S. C. Taçon and Qinglin Yang

Rock Art Research in Korea (2010-2014): Daegok-Ri (Bangudae) Petroglyphs in Ulsan ......... 179
  Seog Ho Jang
Research, Management and Conservation of Rock Art in Australia 2010-2014 ....................................................... 187
Natalie Franklin

Pacific Rock Art from 2010 to 2014: Research Trends, Conservation and Losses ..................................................... 205
Rachel Hoerman

Recent Rock Art Research in Canada ......................................................................................................................... 215
Dagmara Zawadzka

North American Rock Art Research 2010-2014 ........................................................................................................... 225
Reinaldo Morales Jr.

Rock Art Research In Mexico (2010-2014) .................................................................................................................. 245
William Breen Murray†, Francisco Mendiola, María de la Luz Gutiérrez and Carlos Viramontes

Recent Rock Art Studies in the Maya Region and the Intermediate Area, 2010-14 ..................................................... 267
Martin Künne and Suzanne Baker

Caribbean Rock Art 2010-2014: Documentation, Dating and Definitions ................................................................. 285
Michele H. Hayward and Michael A. Cinquino

Rock Art in Ecuador: Research 2010-2014 .................................................................................................................. 295
María Fernanda Ugalde

Rock Art Studies in Brazil (2010-2014) ....................................................................................................................... 303
Andrei Isnardis Horta and André Prous

Rock Art Studies in Peru (2010-2014) ......................................................................................................................... 315
Matthias Strecker

Rock Art Studies in Bolivia (2010-2014) ..................................................................................................................... 323
Matthias Strecker

Dánae Fiore and Mara Basile

Rock Art in Chile (2010-2014) ............................................................................................................................... 349
Marcela Sepúlveda, Gloria Cabello and Daniela Valenzuela R.
News from the Alps (2010-2014)

Claudia Defrasne

The Alps are a vast mountainous territory divided into France, Switzerland, Italy, Liechtenstein, Austria, Germany and Slovenia (Figure 1). Frequency of rock art studies varies dramatically depending on the regions, the Mont Bego area (France) and the Valcamonica and Valtellina (Italy) being the most studied. Eastern regions are far less investigated.

Rock imagery in the Alps has existed from at least the Neolithic period to the 20th century. The presence of Palaeolithic engravings in Valcamonica is accepted by some specialists (e.g. Martini et al. 2009) but such an assertion should be considered with caution in the absence of sufficient data.

This synthesis summarizes 51 books, articles and Ph.D. dissertations published or discussed from 2010 onwards, chosen for the importance of the discoveries they are describing, for the relevance of the scientific issues addressed, for the thoroughness of the methods used, and for their contributions to Alpine rock imagery studies (Table 1). Many other interesting studies could not be addressed within the limitations of this article.

### Table 1. List of the Sites Mentioned with Their Location, Altitude, Period and Bibliography.

<table>
<thead>
<tr>
<th>N°</th>
<th>Name of the site</th>
<th>Location</th>
<th>Altitude</th>
<th>Type</th>
<th>Period</th>
<th>Bibliography</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Faravel</td>
<td>Freissinières, Hautes-Alpes, France</td>
<td>2133</td>
<td>Painted rockshelter</td>
<td>Neolithic ? Iron Age ?</td>
<td>Walsh et al. forthcoming</td>
</tr>
<tr>
<td>2</td>
<td>Genevray necropolis</td>
<td>Thonon-les-Bains, Haute-Savoie, France</td>
<td>457</td>
<td>Reused engraved rocks in tombs</td>
<td>Neolithic</td>
<td>Baudais 2007</td>
</tr>
<tr>
<td>3</td>
<td>Oullas rockshelter</td>
<td>Saint-Paul-sur-Ubaye, Alpes-de-Haute-Provence, France</td>
<td>2390</td>
<td>Painted rockshelter</td>
<td>From Neolithic to modern period</td>
<td>Defrasne 2014; Defrasne and Bailly 2014; Le Quellec et al. 2015</td>
</tr>
<tr>
<td>4</td>
<td>Susa valley</td>
<td>Torino, Piedmont, Italy</td>
<td>781-1096</td>
<td>Engraved rocks</td>
<td>From Neolithic (?) to modern period</td>
<td>Toso 2012</td>
</tr>
<tr>
<td>5</td>
<td>Bego Mount</td>
<td>Tende, Alpes-Maritimes, France</td>
<td>1900-2800</td>
<td>Engraved rocks</td>
<td>From Neolithic to modern period</td>
<td>Huet 2012; Bianchi 2013</td>
</tr>
<tr>
<td>6</td>
<td>Bramois</td>
<td>Bramois, Valais, Suisse</td>
<td>?</td>
<td>Statue-menhir</td>
<td>Neolithic period</td>
<td>Mottet 2009</td>
</tr>
<tr>
<td>9</td>
<td>Chenal rockshelter</td>
<td>Montjovet, Aosta, Aosta valley, Italy</td>
<td>640</td>
<td>Engraved rockshelter</td>
<td>From Neolithic to modern period</td>
<td>Arcà et al. 2013</td>
</tr>
<tr>
<td>10</td>
<td>Bessa plateau</td>
<td>Torino, Piedmont, Italy</td>
<td>300-400</td>
<td>Engraved rocks</td>
<td>From Neolithic (?) to modern period</td>
<td>Vaudagna 2003</td>
</tr>
<tr>
<td>13</td>
<td>Aga Mountain</td>
<td>Carona, Lugano, Ticino, Switzerland</td>
<td>2112-2427</td>
<td>Engraved rocks</td>
<td>From the IIIrd century BCE to modern period</td>
<td>Casini and Fossati 2013; 2014</td>
</tr>
<tr>
<td>14</td>
<td>Ca Morei</td>
<td>Teglio, Sondrio, Lombardy, Italy</td>
<td>?</td>
<td>Female statue-menhir</td>
<td>Chalcolitic</td>
<td>Casini et al. 2012</td>
</tr>
<tr>
<td>15</td>
<td>Monticolo di Darfo</td>
<td>Darfo Boario Terme, Brescia, Lombardy, Italy</td>
<td>350</td>
<td>Engraved rocks</td>
<td>From Neolithic to modern period</td>
<td>Troletti 2013b</td>
</tr>
<tr>
<td>16</td>
<td>Anvia</td>
<td>Ossimo, Brescia, Lombardy, Italy</td>
<td>860</td>
<td>Ceremonial site with statue-menhirs</td>
<td>Chalcolitic</td>
<td>Fedele 2013</td>
</tr>
<tr>
<td>17</td>
<td>Camerata 4</td>
<td>Lòzio, Brescia, Lombardy, Italy</td>
<td>720-750</td>
<td>Female statue-menhir</td>
<td>Chalcolitic</td>
<td>Fedele et al. 2014</td>
</tr>
</tbody>
</table>
New discoveries of painted rock-shelters and engraved rocks

Western Alps

The oldest Alpine rock paintings, attributed to the Neolithic period and exclusively located in the western Alps from 420 to 2390 m a.s.l., are schematic, reminiscent of paintings from south-eastern France. Others are attributed to the Iron Age (Arcà and Fossati 2012). A new painted rock-shelter with schematic paintings was discovered in 2010 in the Ecrins National Park (Hautes Alpes, France) on the Faravel plateau, studied since 1998, at 2133 m a.s.l. Located in a sandstone layer and open to the south, this rock-shelter forms a protected area of 12.76 sq m with a height of 0.70 to 1 m (Figure 2). Paintings composed of red clay with iron oxide include a wounded deer facing a dog, reminiscent of other sites such as Pierre Escrite (Alpes-de-Haute-Provence, France) (Hameau and Garidel 1997) and Porto Badisco (Apulia, Italy) (Graziosi 1996). The roof surface might have been previously pecked to receive the paintings.
Photos of the paintings were enhanced using DStretch and recorded with a white-light scan, whilst the rock-shelter and surrounding landscape were scanned using a Faro laser scanner. Excavation of the rock-shelter is still ongoing. On the basis of the context, the technique and the painted theme, we propose to assign these paintings to the Neolithic period or to the Iron Age (Walsh et al. forthcoming).

In the Aosta valley (Italy), two rocks were discovered in 2014 at Saint-Vincent and described by Fossati in a preliminary paper in which complete tracings are not yet published. These rocks display at least 10 pecked ibex with straight bodies and overly large horns, five fringed figures and adjacent or joined reversed U-shaped figures. He also describes two schematic human figures (Fossati 2014). These ibex are reminiscent of the distinctive animal imagery of the statue-menhirs erected during the 3rd millennium BCE in Valcamonica, and of the statue-menhir fragment from Bramois (Wallis, Switzerland) discovered in a house contemporary to the Petit Chasseur (Wallis, Switzerland) and Saint-Martin-de-Corléans (Aosta, Italy) Neolithic cemeteries, being engraved with an animal figure and concentric circles (Mottet 2009: 111). Fossati also evoked Breton imagery but it is difficult to have a precise idea of the validity of such a comparison without a complete recording of this imagery.

Central Alps

Moving to the Lepontine Alps and to the Val Antigorio (Italy), a second painted rock-shelter, the Balma dei Cervi, was discovered in 2011 a few miles from the Balm d’la Vardaiola painted site. This rock-shelter (6 x 1.5 m) is in a long cliff of micaschists overlooking the valley and facing west. Imagery is schematic, composed mostly of anthropomorphs with semi-circular arms and legs, and isolated or aligned dots. About 40 figures have been identified, constituting what appears to be the largest collection of Alpine painted rock imagery. An isolated trace of a possible schematic human figure has been discovered 15 m to the north, so it is possible that paintings were initially more numerous (De Giuli and Priuli 2013). The omnipresence of the human figure is particularly striking and specific to this site.

In the Rhaetian Alps, new engravings at Bedolina, Coren di Redondo, Seradina I and Piè in Valcamonica (Italy) led A. Marretta to rightly question the landscape interpretation of the so-called ‘topographic engravings’ (Marretta 2013). Such a reading of very different geometric figures (pecked patches, grids, double-base rectangles, rectangles filled with dots…) was convincingly proposed by Arcà (2004) and never contested. But some features of these new geometric arrangements, as detailed by the author, are inconsistent with the landscape interpretation (Marretta 2013). In addition to some inconsistencies that have been highlighted, one could add that some of Arcà’s comparisons between geometric figures and real structures are taken from distant archaeological contexts (grid building structures in Pakistan, a defensive wall in Spain) (Arcà 2004: Figure 15.10 and 15.11). Finally, the way space is conceived and represented strongly depends on the ontology. The ‘bird’s-eye view’ should not be taken for granted (Marretta 2013: 349). Marretta rightly cautions against a single interpretation for so
many different geometric figures, and questions the role of our western ontology in the interpretation of abstract images. In western Valcamonica, geometric figures and cupmark arrangements at Castegno Bùso and Mulini di Camerata (720–790 a.s.l., Lòzio valley) are considered by Fedele to be evidence of Borno 1-type sites. They are attributed to the 4th millennium BCE and interpreted as the ‘phase 0’ of the ideological phenomenon attested by the ceremonial sites with statue-menhirs of the 3rd millennium BCE (Fedele 2011; Fedele et al. 2014: 70, 81). Their description is part of a very detailed article on the prehistory of this understudied valley, where the Ceresolo statue-menhirs were discovered. The destruction of part of the Camerata area by a construction site in spite of a notification by the author reveals an important institutional problem in the Valcamonica archaeology management (Fedele et al. 2014: 86, 88).

New Chalcolithic statue-menhirs from the Camunian province

In the central Alps, particularly in the Camunian province (Valcamonica, Valtellina, Val Venosta, Borno plateau and Lòzio valley, Italy) (Fedele 2008), six Chalcolithic statue-menhirs were discovered out of context: Ca Morei in the Teglio area (Valtellina) (Casini et al. 2010), Cevo and the Furloni fragment in Valcamonica (Sansonzi 2013), Camerata 4 in the Lòzio Valley (Fedele et al. 2014: 72, 78, 82, 86) and Vezzano 1 and 2 in Val Venosta (Pedrotti and Steiner 2014). The Cevo statue-menhir shifts northward the limit of ceremonial sites in Valcamonica. As the Vezzano statue-menhirs are being restored, no recording of them has yet been published, but a preliminary and precise description has been given by A. Pedrotti. Vezzano 2, reused after having been turned upside down, illustrates the complex biographies (Fedele 2006: 57) of some of these stone bodies (Pedrotti 2014: 119-21). Two statue-menhirs without engraved imagery were also discovered in the Velturno-Tanzgasse ceremonial site in Trentino (Italy) (Tecchiati 2013: 469-70).

Recording of Alpine rock imagery

With very few exceptions (ANISA 2012; Marretta et al. 2013; Brandner 2014; Colella n.d.), engravings are still recorded by the rubbing method (Gambari and Arcà 2012; Poggiani Keller 2013: 221, 225) or by applying a plastic sheet to the rock surface, a technique strangely considered as the most accurate and up-to-date (Arcà et al. 2014: 33).

However, rock art recording methods from digital photographs and 3D models are starting to be used. RTI (Reflectance Transformation Imaging) has been cited for the Vezzano statue-menhirs (Pedrotti 2014: 116). Since 2010, the present author has been studying the Oullas rock-shelter (2390 m a.s.l., Alpes-de-Haute-Provence, France) (Figure 3). The rock surface displays painted tree-like figures overlapped by Chalcolithic Remedello-type daggers (2900-2400 BCE), providing the only clue for the dating of such schematic paintings which are spread over Provence and the western Alps. Imagery recording was carried out using DStretch. This study revealed the efficiency of the plug-in for recording Iron Age and modern incisions. It also made it possible to discover a painted date (1568) with a signature and a non-identifiable figure under calcite (Defrasne 2014; Defrasne and Bailly 2014; Le Quellec et al. in press). Recording techniques for extensive engraved outcrops is the subject of the 3D-Pitoti project, involving a European multi-disciplinary team and focusing on Valcamonica. This project aims to develop a 3D scanning toolkit for high resolution acquisition at different scales of the engravings and their environmental context. This requires the use of micro-aerial vehicles and visual Structure-from-Motion techniques. Intelligent data processing for the classification and clustering of the engraved figures is also being developed. Algorithms are created to separate the figures from their rock surface (Seidl and Breiteneder 2012; Seidl et al. in press; Zeppelzauser and Seidl, forthcoming) and to describe in a semi-automatic way the shape and appearance of engravings. Then the engravings are classified into typological categories It is hoped that such techniques for rock art recording will become standard in the near future.

Previously known sites, new studies

Chronocultural issues

In the Aosta valley at Montjovet (Italy), the Chenal rock-shelter (16.6 x 5.1 m, 640 m a.s.l.) is essential to the understanding of the early phases of Alpine rock imagery (Arcà et al. 2014). The rock-shelter faces northeast and overlooks the valley. Three hundred figures have been recognized. What is particularly striking is that pecked U-shaped figures (motivi a giogo), rectangles with appendices (motivi a scudetto) and rectangles with an apical protuberance (figure apicata), and also their associations, are respectively reminiscent of the bird, the male sex and the ‘surface’ of Breton imagery dating back to the 5th millennium BCE (Cassen 2007). These similarities need to be interpreted against the close relationships between distant European regions related to the circulation of Alpine polished stone axes as shown by P. and A. M. Pétrequin. They are also coherent with the recognition of an engraved stone axe attributed to the period 4600-4300 BCE associated with a rectangular figure at the Crête des Barmes in Saint-Léonard similar to Breton associations (Wallis, Switzerland) (Cassen 2014: 295). Another comparison could be proposed with the covering slab of tomb No. 105 of the Genevray cemetery (Baudais et al. 2007). The existence in the Alps of a Neolithic imagery, probably the oldest, shared by distant European regions, should become a key chapter of Alpine rock art studies.
In the Bego area (comprising the Vallée des Merveilles and Fontanalba) (1900-2800 m a.s.l., Alpes-Maritimes, France), N. Bianchi’s Ph.D. thesis addressed the chronocultural attribution of the engraved weapons from both the archeological remains in this high-altitude site and typological comparisons between engraved weapons and real ones discovered in dated archaeological contexts. According to the author, images of flint and metal daggers and halberds were pecked from 3700 BCE to the Final Bronze Age. From superimpositions, she showed that incised images were made during prehistoric times and could have coexisted with pecked engravings until the Early Bronze Age. Like T. Huet, she suggested that the oldest engravings are located in the lower part of the Merveilles area close to the rock-shelters occupied during the Neolithic period. Moreover, the oldest engraved daggers are concentrated in the Vallée des Merveilles itself. Finally, Bronze Age daggers are engraved in the Merveilles area whereas Bronze Age halberds are engraved in Fontanalba. As regards cultural issues, engraved Neolithic daggers are reminiscent of Rinaldone and Remedello specimens, but also of daggers from southern France. Then, during the Bell Beaker period, the author stresses influences from northern Italy and Spain. Connections with central Europe are evoked for the Bronze Age (Bianchi 2013).

**GIS analyses**

GIS analyses have been recently introduced into Alpine rock art studies, but are still rare. Huet employed statistical and spatial analysis to study the Bego imagery.
He concluded that the spatial distribution of themes is not closely related to environmental features. However, some exceptions appeared interesting: pecked patches and fringed figures are engraved in the lower part of the Vallée des Merveilles and Fontanalba areas, while grids, 'skins' (rectangular figures with appendices) and fringed figures are close to streams or lakes. Moreover, fringed figures are mostly engraved on subvertical edges; red rock surfaces are preferred, and have bigger engravings – the bigger the rock, the bigger the engraving. Huet defined three types of corniforms correlated with distinct spatial distributions and interpreted as evidence of a chronological evolution. From superimpositions (18 of them previously unpublished), the archaeological context of the Bego area and comparisons with other cultural contexts, Huet proposed a revised chronological sequence of the Bego imagery from 5500-5300 BCE to 2350-1800 BCE. Hafted halberds, ‘realistic’ human figures and corniforms with rectangular bodies and tails from Fontanalba could be the more recent figures. Grids, pecked patches and close geometric figures may be the older images. He stated the particular features of the so-called Roche de l’autel located in the Vallée des Merveilles. It is the most engraved rock, with the main concentration of daggers, and their dimensions are bigger than on the other rocks. Moreover engravings are mainly located on the north edge, whereas elsewhere the south-east edges are preferred (Huet 2012).

In Valcamonica, most publications focus on restricted areas or on themes, or are based on empirical observations. However, only broad and systematic analyses with objective tools will highlight some readable structural features of this sizeable documentation (300,000 engravings). Craig Alexander has provided the first GIS analysis of Valcamonica Iron Age rock art within a broad theoretical framework, seeking to understand its spatial distribution and social role. Alexander showed how Iron Age rock imagery is located within the ‘taskscape’, in pasturing and farming areas, and consequently is connected to daily life, thus arguing against interpretations involving ritual and initiation rites. The spatial distribution also suggests that the rock art was at least partly expressing identity and local traditions, since the assemblage of image types varies across the valley (Alexander 2011).

An innovative approach using GIS analyses was used by F. Troletti to study the little-studied historical engravings in Valcamonica (Italy). He focused on Campanine di Cimbergo (400-800 m a.s.i.) (Troletti 2013a) and Monticolo di Darfo (350 m a.s.i.) (Troletti 2013b). Engravings from Campanine, mostly dating back to the 14th-16th centuries, have been studied, comparing their spatial distribution with the Austro-Hungarian Cadastre for Lombardo-Veneto (1813). This allowed the author to suggest that figurative engravings are located in herding and farming areas, whereas schematic ones are located in areas where stone and minerals were extracted. Once again, engravings may be connected to working activities and daily life.

**Shepherds culture**

Engravings and paintings made by shepherds are an essential part of Alpine rock imagery. In the Val Brembana (Leoponite Alps, Switzerland), incised engravings including a Latin alphabet (3rd-1st centuries BCE) and the name of the peaks and passes god Poininos in the Lepontic alphabet (a Celtic dialect, 3rd-2nd centuries BCE), evidence of a high-altitude sanctuary, are located in the foothills of the Aga Mountain (2112-2427 m a.s.i.) (Casini et al. 2014). Using engravings, municipal archives and interviews, Casini et al. (2013) also studied the shepherds’ engravings and the high mountain pasture economy from the 15th to the 20th centuries. The authors addressed the origin of the shepherds and the connection between engravings and material culture, some images being common to rocks and wooden or horn objects. In the Dolomites (Italy), the Val di Fiemme hosts an impressive corpus of paintings made by shepherds since at least 1558. The APSAT (Ambiente e Paesaggi dei Siti di Altura Trentini, 2008-2011) project aims at recording each of the inscriptions and structures used by shepherds. The corpus comprises 2400 painted limestone surfaces and 30,000 inscriptions (names, dates, animal and human drawings, hunting scenes, animal head counts, family signs, Christian symbols, messages dealing with a special event, diary information or political events) located from 1200 to 2357 m a.s.l. Paintings are made of red ochre from local mines (Vanzetta 1991), also used to mark cattle. This project included ethnocracyological interviews and physical-chemical analysis of pigments to determine their origin and binders (milk, carotenoids). The Archivi di Pietra project focuses on ethnographical studies performed since 2006 by the Museo degli Usi e Costumi della Gente Trentina. These studies led to the discovery of two painted rock-shelters, both used as resting places or as shelters. Excavations were carried out and revealed a human presence from the Eneolithic or beginning of the Bronze Age (Bazzanella et al. 2012, 2014). This cross-disciplinary research might serve as an example of the way a rock art study has to be done. It is interesting to note again the connection between painted motifs and material culture (Bazzanella et al. 2014). It should also be noted that such paintings, considered transgressive, were made and known by a small group of people, revealing that relationships with the environment could vary according to the different segments of society (Bazzanella et al. 2014: 176).

**Cupmarks**

Cupmarks are the most widespread anthropogenic mark on Alpine rock surfaces, and raise chronological and functional issues. The subject had been little studied until the last few years. It is admitted that cupmarks are
a single and transchronological expression of various cultural stimuli. Only systematic and spatial analyses can improve their understanding. This is the case of two spatial analyses carried out in the Senales valley (Cavulli 2012) and in the Susa valley (Toso 2012) in Italy. They led to very similar results, reminiscent of observations made by A. Vaudagna on the Bessa plateau (Vaudagna 2003). It appears that cupmarks are closely linked to the environment. They are mainly located in a position commanding views, on crests, on south-west exposed slopes, or along the main paths (routes through the mountainous environment in the valley bottom, horizontal routes on slopes or to sacred mountains), in summer pastures, close to shepherd structures and sacred constructions. Connections are also attested between such engravings and oral traditions. Arcà and Rubat-Borel (2014) addressed the chronological issue from dated archaeological contexts, but omitting the Genevray necropolis, and concluded that most cupmarks and grooves are associated with Bronze Age and Iron Age contexts, and that their number and density increased over time.

Advances in the study of the Chalcolithic statue-menhirs and their context

Significant advances in the study of Chalcolithic engraved statue-menhirs and their context come from the Camunian province and particularly from the work carried out by Fedele at the Anvòia ceremonial site (860 m a.s.l.) on the Borno Plateau (Brescia, Italy) (Fedele 2013b). He rightly continues to claim that imagery has to be studied against its archaeological context (Fedele 2012). Such a point of view is increasingly shared, and a high quality collective book about the archaeological context of the 3rd millennium BCE was published recently (De Marinis 2013). An article by Fedele focused on Alpine societies and their evolution from 3400 to 2200 BCE. The author interpreted the statue-menhirs depicting real people as a transformation of the Borno 1-type boulders in the context of Yamnaya-Vučedol influences and the importance given to the individual. In parallel, these influences, also expressed in engraved value-laden objects such as copper weapons, may have led to mortuary practices in multiple stages and places. Both ceremonial and mortuary sites are considered to be evidence of an ancestor’s ideology (Fedele 2013c). At Anvòia, 14C data revealed a “reconsecration” of the ceremonial site during the 4th century (Fedele et al. 2010).

Other studies focused on specific statue-menhirs. A new recording of Cemmo 3, essential to the understanding of the chronology of the imagery from Chalcolithic 2 to the Bronze Age, has been published by De Marinis and Fossati (2012). In the same way, the tracing of the impressive and complicated Anvòia-M1 (Ossimo 4) statue-menhir has been revised (Casini et al. 2014: 149; Fedele 2013b) and new statue-menhirs from Anvòia have been published (Fedele and Fossati 2012a, 2012b). In a very interesting article, Casini (2010) studied the female imagery of the statue-menhirs and proposed convincing comparisons between images and body ornaments from archaeological contexts. An innovative study considers the ideological meaning of the geological features from the very special Anvòia 14 (previously M14) sandstone monolith. The main specificity of the monolith is its bichromy, violet engravings standing out intentionally from the yellow crystalline coating of the perfectly flat frontal edge. Chalcolithic groups selected this geological specificity to depict a body providing cognitive and aesthetic values in bichromy (Danesi et al. 2014). Plasagròp M1 (previously Ossimo 6) has been published in detail for the first time. The particularity of this boulder is the scarcity of its engraved imagery, the only example of a partitioned belt in the Valcamonica area, coupled with an extensive reddish-brownish pigmentation, which has led Fedele to interpret this combination as evidence of painted imagery that has disappeared (Fedele and Fossati 2013).

In 2013, the present author presented her Ph.D. thesis about the symbolic relationships between the Chalcolithic groups of the Camunian province and their environment, based on the statue-menhirs and their imagery. She focused on the uses of stones, the animal imagery of male statue-menhirs and the engraved material culture. Data were collected in a relational database, then used to perform a structural analysis with Multiple Correspondence Analysis and Hierarchical clustering, both aimed at highlighting emic categories. These were then interpreted thanks to archaeological context and recent anthropological studies. In spite of the abstraction of the statue-menhirs, recurrent iconic shapes have been identified, suggesting that, as in neighbouring regions, they are stone bodies, of either geological or anthropic origin. The great variability of shapes and dimensions depends first on the surrounding geological environment of the ceremonial sites, but also on the gender of the depict people. Female statue-menhirs are smaller than male ones, and the shape and processing of both genders are contrasted (roundness and rib-shape vs frontality and rectangularity in Val Venosta, pointed vs rounded top in Valtellina). Similar conclusions about the statue-menhirs from Lunigiana, Trentino, Aosta and Wallis have been published (Harris and Hoffman 2014). The practices in evidence at the ceremonial sites, reflecting connections between real bodies and stones, invite us to consider that statue-menhirs were treated as real people and were much more than representations. The engraved material culture highlights the fact that objects are strongly related to the bodies and are of great importance in the construction of social identities and gender. What I consider the main conclusion of this study, to be confirmed by the numerous unpublished statue-menhirs, considers the relationships between some animal species and male statue-menhirs that may be divided into two classes:
Claudia Defrasne

These two animal species, the only ones closely related to the dog, allowed the Chalcolithic communities to build differences between male individuals, underlying the social role of non-human animals and perhaps of hunting, and their influence on the social structure of the Chalcolithic groups. They contributed to the building of male identities and to structuring the male part of the society. Strong links between social and ecological facts have been pointed out (Defrasne 2013).

However, the imagery of the statue-menhirs is too often studied without taking into account the fact that the boulders are stone bodies, and this has led some authors to interpret images that are not immediately recognizable as symbols (Casini et al. 2014). In this respect, Fedele and I proposed a reconsideration of the interpretation of the radiated circles engraved at the top of the male statue-menhirs and the bandoliera, strangely understood as a sun and a map of a megalithic structure. From imagery and the archaeological context at different scales, we suggested that these images should be interpreted as body ornaments – a necklace and an ornament worn on a shoulder strap or a baldric (Defrasne and Fedele, forthcoming). Fedele also focused on ploughing images, and considered that they could have been engraved from the 4th millennium on Borno 1-type boulders. Their standardized depictions led him to rightly interpret these key images as ideograms and not as scenes, and to stress that they do not highlight the object but much more the action implying a pair of oxen, a man and the ground surface. The interaction with the ground, also conveyed by the location of this image at the base of the statue-menhirs, appears to be an important aspect of the ideology when interpreted against the increased and renewed human impact on the environment caused by the animals drawn from the mid-4th millennium BCE onwards (Fedele 2013a).

Conclusion

Whatever the chronological period, rock art in the Alps appears as a social construct of the mountainous environment from the Neolithic period onwards. Studies performed on historical corpuses led to observations that should be kept in mind when studying prehistoric imagery, particularly the relationships with material culture and daily life. We should also dismiss the temptation to automatically interpret prehistoric images through comparison with familiar shapes.

However, there is substantial work to be done. Many Alpine corpuses still await systematic analysis, and excavations should be undertaken around engraved rocks to investigate practices that may be linked to the imagery.
References


