

pca

european journal of
postclassical archaeologies

Volume 4
May 2014



SAP
Società
Archeologica

pca

european journal of
postclassicalarchaeologies

volume 4/2014

SAP Società Archeologica s.r.l.

Mantova 2014



EDITORS

Gian Pietro Brogiolo (chief editor)

Alexandra Chavarria (executive editor)

ADVISORY BOARD

Martin Carver (University of York)

Matthew H. Johnson (Northwestern University of Chicago)

Giuliano Volpe (Università degli Studi di Foggia)

Marco Valenti (Università degli Studi di Siena)

ASSISTANT EDITOR

Francesca Benetti

EDITORIAL BOARD

Gilberto Artioli (Università degli Studi di Padova)

Andrea Breda (Soprintendenza BB.AA. della Lombardia)

Alessandro Canci (Università degli Studi di Padova)

José M. Martín Cívantos (Universidad de Granada)

Girolamo Fiorentino (Università del Salento)

Caterina Giostra (Università Cattolica del Sacro Cuore di Milano)

Susanne Hakenbeck (University of Cambridge)

Vasco La Salvia (Università degli Studi G. D'Annunzio di Chieti e Pescara)

Bastien Lefebvre (Université de Toulouse II Le Mirail)

Alberto León (Universidad de Córdoba)

Tamara Lewit (Trinity College - University of Melbourne)

Federico Marazzi (Università degli Studi Suor Orsola Benincasa di Napoli)

Dieter Quast (Römisch-Germanisches Zentralmuseum Mainz)

Andrew Reynolds (University College London)

Mauro Rottoli (Laboratorio di archeobiologia dei Musei Civici di Como)

Post-Classical Archaeologies (PCA) is an independent, international, peer-reviewed journal devoted to the communication of post-classical research. PCA publishes a variety of manuscript types, including original research, discussions and review articles. Topics of interest include all subjects that relate to the science and practice of archaeology, particularly multidisciplinary research which use specialist methodologies, such as zooarchaeology, paleobotany, archaeometallurgy, archaeometry, spatial analysis, as well as other experimental methodologies applied to the archaeology of post-classical Europe.

Submission of a manuscript implies that the work has not been published before, that it is not under consideration for publication elsewhere and that it has been approved by all co-authors. Each author must clear reproduction rights for any photos or illustration, credited to a third party that he wishes to use (including content found on the Internet). Post-Classical Archaeologies is published once a year in May, starting in 2011. Manuscripts should be submitted to editor@postclassical.it in accordance to the guidelines for contributors in the webpage <http://www.postclassical.it>

Post-Classical Archaeologies's manuscript review process is rigorous and is intended to identify the strengths and weaknesses in each submitted manuscript, determine which manuscripts are suitable for publication, and to work with the authors to improve their manuscript prior to publication.

For subscription and all other information visit the web site <http://www.postclassical.it>

DESIGN

Paolo Vedovetto

PUBLISHER

SAP Società Archeologica s.r.l.
Viale Risorgimento 14 - 46100 Mantova
www.archeologica.it

PRINTED BY

Tecnografica Rossi, Via I maggio, Sandrigo (VI)

Authorised by Mantua court no. 4/2011 of April 8, 2011

CONTENTS PAGES

EDITORIAL

5

RESEARCH - ARCHAEOLOGY OF UNCULTIVATED LANDSCAPES

- S. Burri** Reflections on the concept of marginal landscape through a study of late medieval *incultum* in Provence (South-eastern France) 7
- O. Vésteinsson, M. Church, A. Dugmore, T.H. McGovern, A. Newton** Expensive errors or rational choices: the pioneer fringe in Late Viking Age Iceland 39
- R. Schreg** Uncultivated landscapes or wilderness? Early medieval land use in low mountain ranges and flood plains of Southern Germany 69
- J.M. Martín Civantos** Mountainous landscape domestication. Management of non-cultivated productive areas in Sierra Nevada (Granada-Almería, Spain) 99
- L. Peña-Chocarro, P. Alkain, M. Urteaga** Wild, managed and cultivated plants in Northern Iberia: an archaeobotanical approach to medieval plant exploitation in the Basque Country 131
- D.E. Angelucci, F. Carrer, F. Cavulli** Shaping a periglacial land into a pastoral landscape: a case study from Val di Sole (Trento, Italy) 157
- F. Redi** Insediamenti estremi d'altura nell'Abruzzo interno: l'incolto e la pastorizia 181
- A. Colecchia, S. Agostini** Economie marginali e paesaggi storici nella Maiella settentrionale (Abruzzo, Italia) 219
- BEYOND THE THEME**
- A. Castorao Barba** Continuità topografica in discontinuità funzionale: trasformazioni e riusi delle ville romane in Italia tra III e VIII secolo 259
- A. Porcheddu** Morfologia e metrologia dei particellari post-classici: trasformazioni nella centuriazione a nord di Cremona 297
- A. Baeriswyl** What shall we do with 10,000 small excavations a year? Quantity and quality in urban archaeology 315

DOSSIER - NEW TRENDS IN THE COMMUNICATION OF ARCHAEOLOGY

- G.P. Brogiolo** Comunicare l'archeologia in un'economia sostenibile 331
- C. Holtorf, A. Högborg** Communicating with future generations: what are the benefits of preserving cultural heritage? Nuclear power and beyond 343
- D. Kobińska** Archaeology and communication with the public: archaeological open-air museums and historical re-enactment in action 359
- C. Bonacchi** Understanding the public experience of archaeology in the UK and Italy: a call for a 'sociological movement' in Public Archaeology 377
- G. Volpe, G. De Felice** Comunicazione e progetto culturale, archeologia e società 401
- L. Richardson** The Day of Archaeology: blogging and online archaeological communities 421

RETROSPECT

- J. Wienberg** Historical Archaeology in Sweden 447

PROJECT

- E. Jansma et al.** The Dark Age of the Lowlands in an interdisciplinary light: people, landscape and climate in The Netherlands between AD 300 and 1000 471

REVIEWS

- C. Broodbank, *The Making of the Middle Sea: A History of the Mediterranean from the Beginning to the Emergence of the Classical World* - by **M. Hummler** 477
- A. Izdebski, *A rural Economy in Transition. Asia Minor from Late Antiquity into the Early Middle Ages* - by **V. La Salvia**
- N. Christie, D. Creighton, M. Edgeworth, H. Hamerow, *Transforming townscapes. From Burh to Borough: the archaeology of Wallingford, AD 800-1400* - by **A. Chavarría Arnau**
- S. Gutiérrez, I. Grau (eds), *De la estructura doméstica al espacio social. Lecturas arqueológicas del uso social del espacio* - by **J. Sarabia Bautista**
- P.E. Boccalatte, *Fabbri e ferri. Italia, XII-XVI secolo* - by **F. Ballestrin**
- I.H. Goodhall, *Ironwork in medieval Britain: an archaeological study* - by **F. Ballestrin**
- S. Costa, G.L. Pesce (eds), *Open source, Free Software e Open Format nei processi di ricerca archeologica* - by **A. Porcheddu**

Uncultivated landscapes or wilderness? Early medieval land use in low mountain ranges and flood plains of Southern Germany

RAINER SCHREG

Römisch-Germanisches Zentralmuseum, Forschungsinstitut für Archäologie, Ernst-Ludwig Platz 2, Mainz,
schreg@rgzm.de

There is a colonialist perspective on colonisation processes: colonised land in low mountain ranges as well as in flood plains is often regarded as a previous uncultivated wilderness, subdued to a process of civilisation by the authorities. It often neglects indigenous settlers and non-agrarian land use strategies. Most 'uncultivated' landscapes were for sure cultural landscapes. Looking at various landscapes in Southern Germany at the Swabian Alb, the Black Forest and the Danube we learn of alternative narratives starting with environmental history and the common man and his daily life.

Keywords: Southwest Germany, early medieval colonisation, colonialism, floodplains, low mountain ranges

Das Verständnis des Landesausbaus in Mittelgebirgs- und Sumpflandschaften als die organisierte Zivilisierung zuvor unbesiedelter Wildnis erweist sich als eine kolonialistische Sicht. Es blendet häufig ältere Besiedlung und nicht-agrarische Landnutzungsformen aus. Die meisten "Urlandschaften" sind in der Tat Kulturlandschaften. Ausgehend von Perspektiven der Umwelt- und Alltagsgeschichte ergeben sich mit Blick auf ausgewählte Regionen in Süddeutschland (auf der Schwäbischen Alb, im Schwarzwald und an der Donau) alternative Szenarien.

Schlüsselbegriffe: Südwestdeutschland, frühmittelalterlicher Landesausbau, Kolonialismus, Flußniederung, Mittelgebirge

The archaeology of uncultivated landscapes is a difficult field: within an uncultivated landscape we would not expect typical archaeological sites of permanent agrarian villages or any infrastructure. Bio- and geoarchaeological data should show little human impact. However, written sources on wilderness as well as ideas of pristine forests are rather suspicious. The main question for archaeology therefore is to determine whether a landscape was in fact uncultivated. More precisely, we need

to ask for the interaction between 'nature' and 'culture' in these areas. Furthermore we need to deal with the ideas about these landscapes in the past and in modern research.

A comparative approach, which uses chronological and spatial differences, may help to understand the 'uncultivated' landscapes of the early Middle Ages. Inlands/outlands and processes of colonisation are therefore the main topic for an understanding of 'uncultivated' landscapes. Starting with some more general reflections on research paradigms related to uncultivated landscapes and processes of colonisation, we will use some examples from Southern Germany to deal with low mountain ranges and flood plains in the early Middle Ages.

1. Prologue – modern colonisation of “wilderness”

During the period of Enlightenment in the 18th century, landscape was more and more considered as the basis of the wealth of nations. Land was primarily seen as a resource to nourish people and to feed cavalry horses, as well as a source of various raw materials which gained in importance during a period of a proto-industrialisation (Sieferle 1990). The number of population became a matter of prestige for absolutist sovereigns, as pre-industrial manufactures as well as growing armies depended on human labour. In consequence there was great effort to cultivate unused 'wilderness' and to colonise the land.

The European colonisation of the Americas is the most prominent example of a modern frontier against 'uncultivated' landscapes, which also influenced the narratives of colonisation in Europe (Blackbourn 2007). In Northern America the “winning of the West” starting in the 17th century and lasting until 1860 was understood as a frontier of civilisation against wilderness, achieved by the migration of brave people to the west, making their fortune as cattle-breeders, farmers or gold panners and forming the modern American nation (Turner 1920). This narrative of a conquest of nature results in being oblivious against the cultural landscapes of indigenous people. In fact, the North American landscape was far from being a wilderness. It was a cultural landscape, formed by land use practices of native people. At the time when Europeans arrived, many regions were in a process of change, because of the introduction of Old World species like germs, horses or new varieties of grasses (Worster 1990; Sherow 1992). The history of Europeans and American Indians is predominantly seen as a story of hostile relationship resulting in Indian wars, escape and displacement or even genocide. This is true to an eminent de-

gree, but there was also a “middle ground”, a field of cultural relationships consisting of cultural innovation, accommodation and confrontation. The middle ground only found historical attention a relative short time ago, giving a much more complex idea of the frontier (White 2005).

The Spanish and Portuguese conquista in South America since the 15th century, which was in some ways different from the situation in Northern America, also did not reach uncultivated wilderness. The Spanish mainly dealt with tropical environments, but as in Northern America, there was an important change of landscapes connected with the arrival of Europeans. Spaniards did not come, for example, to pristine rain forests; they rather entered cultural landscapes with a long-lasting pre-Columbian history. During the contact period there was a decline in population and a reforestation of landscapes, formerly used by specific strategies of agro-forestry. Colonial land-use, however, was coined by the European idea of large open fields and meadows. Despite of the problematic suitability of European grains and livestock to New World's environments, this cultural factor was an important complicity for an adaptation of European land use practices. Recognizing the conquered landscapes as wilderness, alternative pre-Columbian land use strategies lost out. The introduction of European practices of land-use lead to remarkable reactions and transformations of the local ecosystem (Schreg in press a).

Similar frontiers existed in Russia, South Africa and Australia, closely connected to modern nation-building (Osterhammel 2010). In contrast to these large-scale colonisation processes, cultivation of wilderness in Central Europe was on a rather small scale. Nevertheless, these projects were important for the formation of modern states (Osterhammel 2010). Amongst the projects of that time are the cultivation of the Oderbruch (Blackbourn 2007, pp. 33-78, 138-178; Herrmann 2013, pp. 273-284), the drainage of the Donaumoos near Ingolstadt (Hoser 2011), or the valorisation of various regions of the Habsburg monarchy (Szűcs 2010). Most of them were in the drainage of swamps or the regulation of rivers. They all were driven by political decisions, organised by state commissions – and they often struggled with technical and environmental challenges. Drainage of swamps affected the regional hydrology, the local flora and fauna, and struck the interests of various stakeholders. In the Donaumoos for example, previous rights of grazing were affected. A water mill at the runoff of the drained area was identified as an obstacle for the drainage quite soon (Hoser 2011, p. 228). Negotiations and conflicts lasted for generations. The water mill was only bought-out in the early 20th century and problems with drainage, drying-up and soil fertility still exist today.

In South and West Germany, early modern valorisation was mainly interested in the re-population of settlements deserted during the late Middle Ages or the 30years war. Settlers were often recruited from distant regions. They got privileges regarding their rights and taxes. The establishment of the infrastructure was supported by the sovereigns. For example, Waldensian refugees were settled in the 17th century in the low mountain ranges of Northern Hesse, in many cases at the site of an earlier medieval settlement. Local craftsmen built the village of Louisendorf according to regional traditions, but on a regular ground-plan (Zögner 1966). In many cases, agrarian production was only an additional income for families basically working as craftsmen.

Another example is represented by the small village of Oberböhringen, founded in 1793 by the free imperial town of Ulm. Situated at a remote plateau of the Swabian Alb, it was settled by 14 families from the neighbouring village of (Unter-)Böhringen. The new settlement was laid out on a rectangular plan with 7 farmsteads and 7 much smaller properties of crofters. Workers, usually responsible for the entrenchment of the town of Ulm, were commanded for the clearance of the forest. Due to the consequences of the French revolution, these settlers did not have a good start and especially the 'year without a summer' 1816 with extreme weather due to the Tambora eruption, was existence-threatening for many of the farms (Schmolz 1959).

These modern examples are certainly bound into their historical context of early modern states, a (proto-)industrialisation and a changing world-view due to the philosophical enlightenment and the development of modern sciences. They are far from being valid analogies for early medieval "landnam" processes. But they are important to reflect upon our own perspectives on the early Middle Ages.

2. Paradigms and questions

These early modern cases of colonisation of 'outlands' have a great impact on our ideas about colonisation of 'uncultivated' landscapes, as they set up specific narratives: colonisation processes concern previously uncultivated landscapes seen as a 'wilderness'; they are a conquest of nature – and indigenous people are seen as savages, who are rather part of the nature than of civilisation.

The German expansion to Eastern Europe during the Nazi regime was explicitly referring to the parallels with the American frontier. Slavonic people in Eastern Europe were seen as the Indians of Europe. The Nazi regime planned to transform Eastern Europe into a cultural landscape

and to realize a systematic settlement system based on Walter Christaller's model of centre and periphery and with a regular system of newly established settlements of soldier peasants (Blackbourn 2007, pp. 307-376). In this sense, a cultural landscape was something which had to be established in these regions in future, as they recognized Eastern Europe rather as an uncultivated region (Schenk 2002). The modern conquest was seen as a perfection of the medieval German colonisation. Up to the 1970s the medieval German eastward expansion was in fact seen as a national project, bringing civilisation, christianity and urbanism to the 'primitive' Slavonic people (comp. Schlesinger 1975). Even if German historical research – in contrast to other European regions (Berend 1999) – hesitated to pick up the frontier as an explicit theoretical concept, some of its paradigms nevertheless became an integrative part of the dominating perspective on uncultivated landscapes.

First of all, we need to get cautious against still existing 'colonialist' paradigms within modern research on early medieval 'landnam' processes. We learn about the idea of wilderness and a colonial perspective of conquest which is deeply rooted in modern times, neglecting or debasing indigenous people and not understanding cultural landscapes of pre-conquest periods. Colonisation is closely linked to agrarian land use-strategies of the more recent European tradition: Ploughed agrarian fields, large open meadows and forests are understood as clearly separated elements of a cultural landscape. Foresters were opposed to mixed forms of forest economy as for example wood pasture, which they rather recognized as a bad situation, which has to overcome (Küster 2003). Non-agrarian land-use is seen as backwardness and emphasizes the need for valorisation.

Therefore, the term 'uncultivated landscape' may be confusing, as it refers just to a specific point in time and should in no way be understood as the contrary of a cultural landscape. Originating from the Latin word "cultura", the term refers to agriculture. Therefore, an uncultivated landscape may be seen as the counterpart of the agrarian infield, the outland used by hunters, herders, miners or loggers (Andersson *et al.* 1998).

A second point we can learn from modern examples concerns the question of the relation of colonisation processes and power. Modern colonisation in the Americas, in Africa, Prussia or in the Ulm territory at the Swabian Alb are – independent from the extension of the colonised areas – closely connected with the interest of states to gain resources and land. In quite different ways, they regulate the colonisation within the territories they claim for their nation. In modern Europe, colonisation is organised by the authorities, regulated by laws and results in planned settlements and landscapes.

In order to check these paradigms, we need to understand early medieval uncultivated landscapes in the broader framework of human ecology. We need to have a closer look on the 'uncultivated' landscapes, in order to understand, how they have been used on the long term; we need to ask for the specific interaction between men and 'nature' including the ideas of people about these landscape, which can be seen as wilderness or as holy solitude.

3. Early medieval processes of colonisation in Southwest Germany

In Southern Germany the archaeological record of the early Middle Ages is determined by a huge number of burial grounds ('Reihengräberfelder'), mainly of the 6th and 7th century. Their distribution coincides with specific forms of toponyms, especially those ending with –ingen, as well as with specific forms of later settlements. These areas have been defined as the "Altsiedelland" – the early settled landscapes. These regions include the wide valley of the Rhine, the loess plains in the Neckar region as well as the pre-Alpine landscapes of Southern Bavaria. To the northeast, the distribution of Merovingian burial grounds clearly respects the Roman frontier line of the 3rd century, known as Obergermanisch-Rätischer Limes, even if there are some sites beyond this line. The territories north of the Danube and east of the Rhine, however, were vacated by Roman troops in the late 3rd century. Afterwards a population with cultural traditions from various regions east of the lower Rhine (rhein-weser-germanisch) and especially from the Elbe region in Eastern Germany and Bohemia (elbgermanisch) established in the former Roman territory. Even the architecture of their farmsteads shows these traditions – for example in three-aisled houses and pit houses with a hexagonal posts' arrangement. Though in many cases, the settlements of the late 3rd, 4th and early 5th century show close spatial relations to former Roman sites (Schreg 2012a).

Based on the chronology of the burial grounds and on specific toponyms (ending with –ingen, –heim and –stetten), in many landscapes a process of colonisation – starting during the Merovingian period – has been reconstructed. However, in the Carolingian period the documentary situation changes: the deceased did not get material goods within the grave any more. The large Reihengräberfelder were not continued and were replaced in a long-term process by Christian graveyards at the Parish churches. Archaeology loses its predominant source in the decades around 700 AD. Instead, written sources gain in importance.

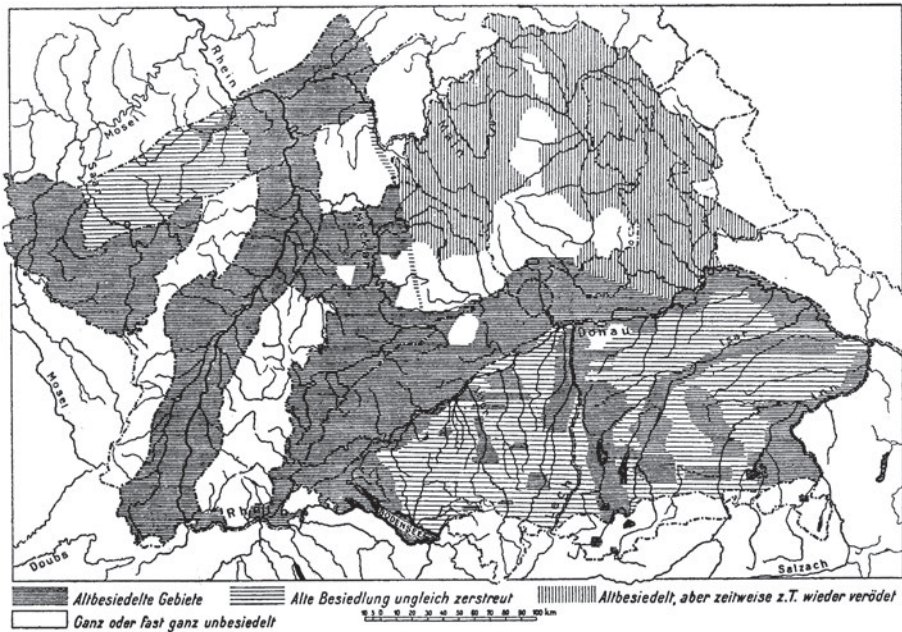


Fig. 1. "Altsiedelland" according to Robert Gradmann (Gradmann 1931). Unsettled landscapes in white. Notice the situation at the Black Forest, the Eastern Swabian Alb and the Donaumoos.

These early medieval written record highly depends on clerical institutions and is in many cases related to the estates of a somehow privileged class of population (Archäologisches Landesmuseum Baden-Württemberg 1997). The colonisation during the early Middle ages, however, is just the beginning of a long-term process, which accelerates at the beginning of the 2nd millennium and which lasts up to the 13th century. It is the early 10th century, the time period of the Hungarian raids, which may separate two phases of colonisation. Therefore we may distinguish landscapes, which have been settled already in the early Middle Ages – as the Swabian Alb – and others, which have been settled only in the 2nd millennium. As the Black forest they are often considered as unsettled and uncultivated landscapes during the Early Middle Ages.

Various studies of early medieval colonisation in Southwest Germany emphasized the important role of the Alamannic duke or the Carolingian kings. For example Hans Jänichen's study on the valley of the river Schlichem. The river originates within the Swabian Alb and takes its course to the northwest. The upper part of the valley is rather narrow

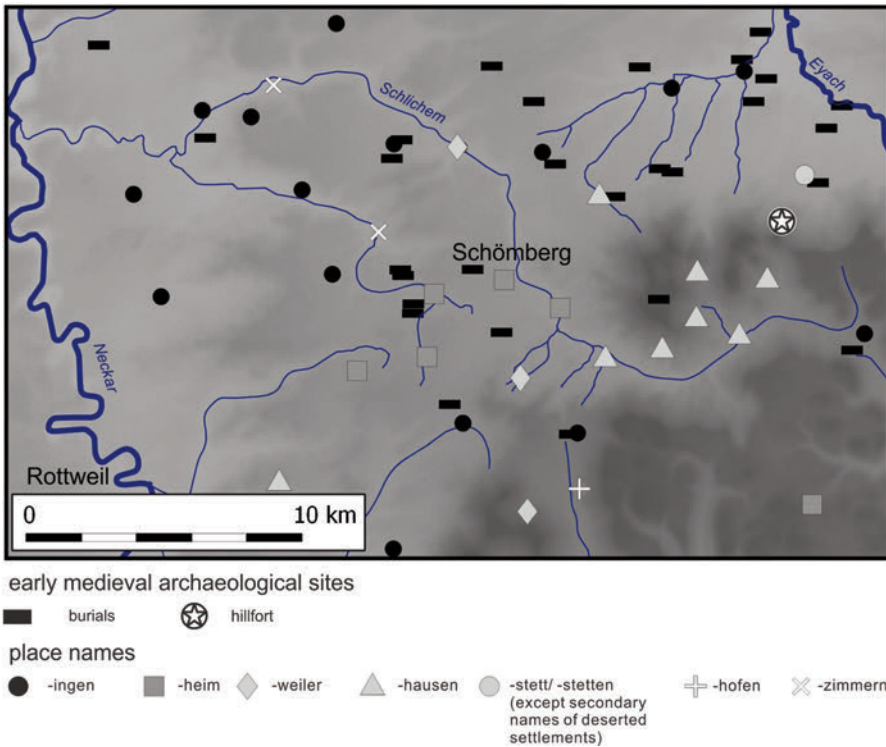


Fig. 2. Regional land occupation at the Northern escarpment of the Swabian Alb (Graphic R. Schreg, based on SRTM-data).

and lacks archaeological sites, which are well known from the surrounding hills. The lower part crosses the hilly landscape north of the bluff of the Swabian Alb and provides rather favourable conditions for agriculture. Merovingian burial sites as well as place names ending with –ingen are known from the lower part of the valley. Upstream there are five settlements named with –heim, most of them later abandoned, in the central part of the valley. The territory of these settlements forms a rectangular area, which seems to be cut from the surrounding land. Settlements ending with –hausen are situated in the upper part of the valley and even later names are found in small tributary valleys. The current interpretation of this landscape is that of an area systematically settled under the authority of the Frankish king and marking a feudal system (“Grundherrschaft”) (Jänichen 1955; Zekorn 2008). There are only few written documents from the 8th c., representing tradition of land to the St. Gallen monastery south of lake Constance. Clear indications of royal possessions are missing. There is little discussion about the condition of

the landscape before the process of colonisation. Just some kilometres north of the valley exists a prominent hillfort at the Lochenstein mountain. There are some finds from the 5th century, but it remains unclear whether the site belongs to the category of migration period fortified central places like the Runde Berg near Urach (Morrissey 2008, p. 75).

What we find in the early Middle Ages in southern Germany are the same narratives of wilderness and state regulation as in modern times: The colonised landscapes of the early Middle Ages, in the East as well as in Southern Germany, are regarded as uncultivated areas or as wilderness, primarily consisting of dense forests. The geographic "Altlandschaftsforschung" ("research on ancient landscapes") for example reconstructed a linear process of clearance in central Europe, starting in the 7th and 8th century and lasting to the early modern period (Schlüter 1952; Schlüter 1953). It regarded the forests as pristine, uncultivated landscapes, neglecting earlier land use as well as periods of reforestation. The question of previous inhabitants and the status of the landscapes at the time of 'colonisation' still is, in most cases, of minor interest in research debates. Furthermore, colonisation is regarded as a centrally organised project, following a strategic planning. This is true for the occupation during the migration period as well as for the medieval colonisation (comp. e.g. Weller 1938). The question for the responsible authorities and their manifestation within the colonised landscapes has been an important topic of historical and archaeological research in marginal landscapes. Historical and geographical research has for a long time postulated an early medieval 'state colonisation', characterized by specific long stripped fields, specific place names and a special juridical position of the settlers ("Königsfreie": free peasants, only obligated against the king) (Nitz 1974).

In the light of the paradigms, created by modern colonisation processes, we need to be cautious against the emphasize of the role of authorities, the planned character of the opening of a by-then uncultivated and uninhabited landscape. We therefore need to ask for alternative scenarios of an opening, less understood as an event started by an authoritarian initiative, but as a process, which involves various agents, including lower social classes.

4. New perspectives

In recent years historical research questioned the existence of well organized early medieval states. Instead of centralised power, institutional authority and a stratified society there was a segmentary society with multiple, often inhomogeneous groups, in which social relations and

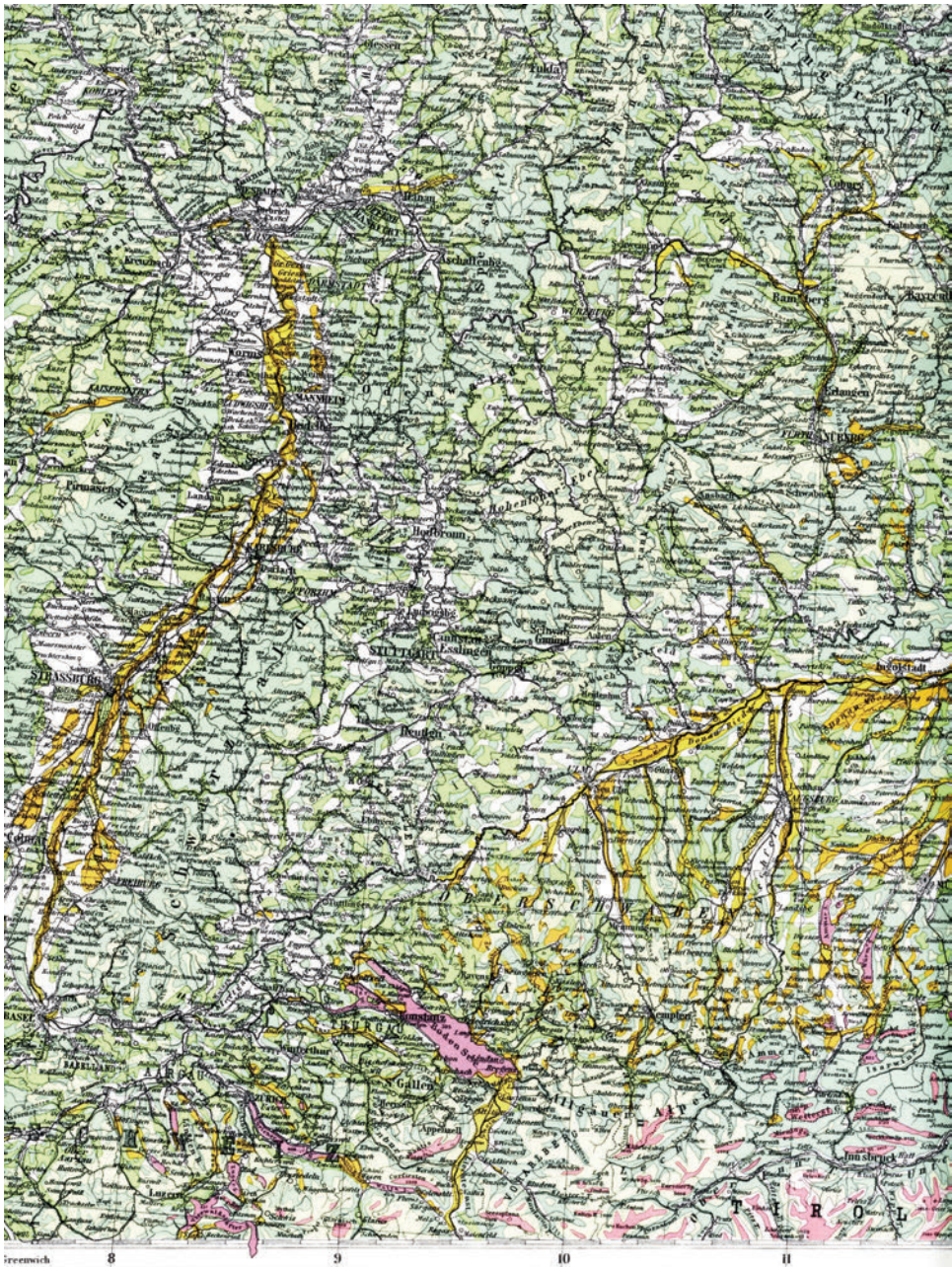


Fig. 3. Early medieval landscape and land occupation according to Otto Schlüter (Schlüter 1952). Floodplains in yellow, forests cleared during the middle ages in light green.

power had to be permanently negotiated, demanded, and demonstrated (Althoff 2012). The concept of feudal organisation also has been modified (Schreiner 2000; Rösener 2012). Instead of a rather political history there are approaches more interested in social and economic issues (e.g. Kohl 2010; Beck 2003). Furthermore, there is an increasing interest in environmental history. Until now however, research on early medieval Southern Germany has been little affected.

Archaeology on the other hand revealed many sites of early medieval settlements, changing our ideas about local settlement formations (Schreg 2006; Schreg 2012c). Initiatives towards landscape archaeology, however, were mostly developed in Northern Germany. Starting with some isolated rescue excavations already in the 1930s, it was only since the 1980s when large scale excavations were conducted in Southwest Germany (e.g. Stork 2010). Analyses of single landscapes are still quite occasional, as research is foremost driven by rescue excavations, not allowing the realisation of additional landscape research surrounding the threatened sites. Therefore, in Southwest Germany there are few palynological data for the medieval period (e.g. Smettan 1995; Smettan 2000; Rösch 2009), providing only very punctual information on the development of landscapes. As in many landscapes, they often show a reforestation during the migration period (Küster 2001).

German medieval archaeology stayed a-theoretical for a very long time. New perspectives offered by post-processual archaeology, by the cultural turn or simply by environmental history are by now of minor relevance within the archaeology of early medieval settlement landscapes of Southwest Germany. There are interesting studies from other European regions, showing the importance of analysing the experience of the cultural landscape, regional identity and social structure. In Scandinavia the contrast between outfield and infield has been recognized as the difference between the friendly, civilized homestead and the wild, dangerous and hostile home of trolls and other beings (Altenberg 2001; Holm 2002). There are similar tales in the German low mountain ranges, and even if we have little ideas about their age, they depict these landscapes as somehow wild and dangerous (Laschewski 2001). Even if they may be of rather recent times, they nevertheless form an important background for historical and archaeological research, regarding low mountain ranges as a rather uncultivated wilderness. There is, however, an early medieval written record which frequently refers to “terra inculta”. In general it is not possible to decide, whether this refers to uncultivated wilderness or to temporary fallow ground, especially when the term is part of a standard text. In some cases we learn from a context of forest clearance (Gringmuth-Dallmer 1990, p. 18).

New perspectives for future archaeological research on uncultivated landscapes come from environmental history and human ecology (comp. Schreg 2014). They bring together 'natural' as well as 'social' aspects and they help to identify traditional paradigms.

5. River valleys and swamps

Danube and Rhine are the most important river valleys, which form some floodplains. In the past floodplains were even in Central Europe a pool for malaria (Wernsdorfer 2002). There is no direct evidence for malaria in the early Middle Ages. However, malaria may be one reason for an interesting pattern in the development of Merovingian burial places. In some regions they grew constantly and in others they remained approximately the same size. Looking into the region of the Eastern Swabian Alb and the adjacent Danube valley, we recognize growing burial places in the upland and a stagnation along the Danube valley between Ulm and Neuburg and in the southern tributary valleys. There is no reliable explanation, but malaria in the Danube valley may be a factor for these spatial differences (Schreg in press b).

However, even at the river Rhine, the river area is at a maximum five to six kilometres wide, early villages were close to the edge of the low terrace. The riverscape of the Rhine has a variable history in time (Dambeck 2005; Lechner 2005). Starting with a furcative, gravelly riverbed, there was an increasing dumping of sediments due to the rising agriculture since the Neolithic. However, the typical alluvial forest and the dead stream branches with stagnant water, mainly developed since the late Middle Ages, when people more and more started to regulate the riverbeds and to construct dams. It's the modern time regulation in the 19th century which corrected the stream to a rather linear course. Falling ground water changed the agricultural potential of the neighbouring land (Musall 1969; Volk 2006).

Lack of evidence is a special problem for understanding the early medieval river landscapes. At the end of the Roman period, however, we recognize some changes in the river valleys. During the Roman period, in the Danube and the Main valley, oaks have been eradicated and deposited by floods. Floods concerned an increasing area of the valley and by the end of the Roman period, the riverside woodlands were destroyed. The migration period was a period of regeneration, but during the 6th and 7th century, a new period of floods, sweeping away oak trees, started (Becker 1992).

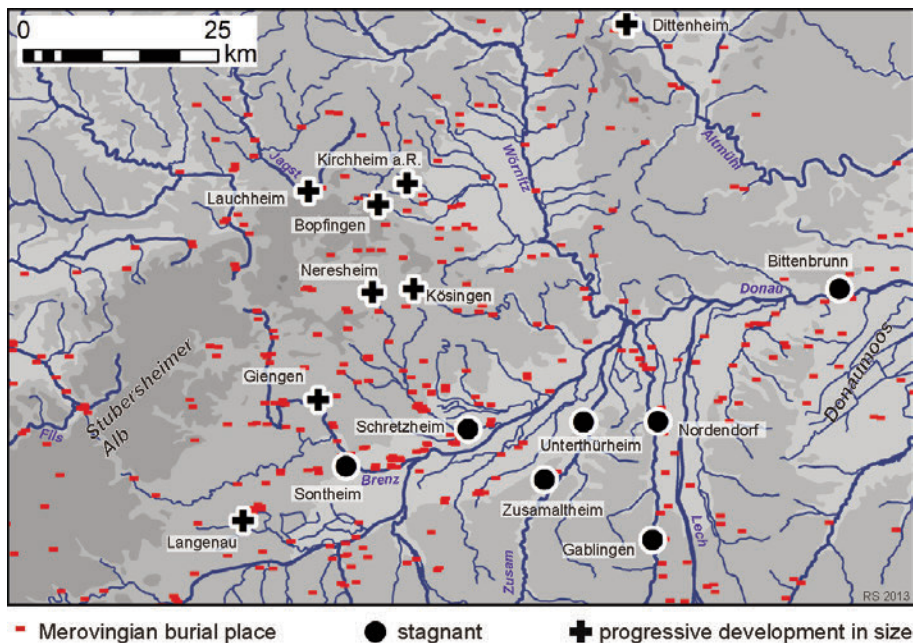


Fig. 4. Regional trends of burial places at the Eastern Swabian Alb and the adjacent Donau valley during the Merovingian period (Schreg in press).

Changing ground water levels affected the surrounding land. At the settlement of Merdingen, approximately 4,5 km from the bluff of the river Rhine, the water level rose during the 7th to the 11th century. Because of the resulting soil wetness, the land degraded and was in large parts not suitable for agrarian use any more (Lommerzheim 1988, p. 7). Rising ground water is a well known phenomenon at smaller rivers and creeks, caused by increasing soil erosion and mill ponds. Archaeological finds show the important role of mills during the early Middle Ages. At large rivers mills however were often constructed as ship mills, as for example the water mill from Gimbsheim, dendrochronologically dated to 600-655 AD (Höckmann 1997; Gräf 2006, pp. 141-144). Because they are part of the grain production, they are a phenomenon of already 'cultivated' landscapes.

The river, however, provided interesting possibilities for people, living on its banks.

In Main and Neckar a remarkable number of medieval log-boats and ships have been found due to some systematic research, but for the Rhine and Danube, we have less information (Kröger 2013 in press). The

important role of the Rhine as an axis of transport is well known from written sources as well as from archaeological evidence (Ellmers 1972). Ceramic finds for example show distributions along the river as well as crossing the river (Schreg 2012b; Châtelet 2002). A log-boat from Speyer dendrochronologically dated to the 6th century (Ellmers 1972) is a direct evidence for the usage of the Rhine for transportation. Material analysis of golden foil crosses, quite common in 6th and 7th century burials, indicate the use of Rhine gold (Hartmann, Wolf 1975). Since many gold objects in this period were made of secondary used gold, this is no reliable evidence of early medieval gold panning at the Rhine.

There are several excavations of early medieval settlements close to the Rhine and the Danube. Speyer-Vogelgesang (Bernhard 1982), Muffenheim (Damminger, Gross 2008) and Breisach-Hochstetten (Lommerzheim 1988) are some of the more prominent examples. The material culture of these settlements provides little evidence for fishery, boating or other specific economy connected with the river and its valley. There are only few archaeozoological data which do not allow any comparison between sites near the river and in the agrarian landscapes of adjacent high terraces.

At the Danube the situation is quite similar. Indications for a specific land-use of the riverscape are missing. However, lack of evidence is no proof for uncultivated landscapes. Remarkably, some fish-hooks were found in a Merovingian burial at Großprüfening near Regensburg. The grave belongs to a burial ground which does not fit the norm of Merovingian burials, but represents traditions well known in landscapes of Slavonic settlement northeast of the Danube (Eichinger, Losert 2003).

In contrast to the Rhine there are several swamps along the river, which do not result from back waters. The already mentioned Donau-moos, going back to the last glacial, results from dammed-up water. Early medieval sites omit the Donaumoos. There are many sites of iron smelting, mainly from the late Iron Age (Seitz 1937) and probably connected to the nearby oppidum of Manching. Slags from early medieval settlements in the surrounding area (e.g. Zuchering; Weid 2000) raise the suspicion, that swamp ore was also an economic factor of the early Middle Ages. Merovingian burial places are situated close to the Donaumoos and indicate some kind of land use in that swampy area. An interesting indication for another aspect of the marginal land of the Donaumoos comes from a hoard deposit, consisting of the sherds of a pot and 196 amber beads. This hoard most probably dates to the migration period and joins to some few other hoards of that time found in bogs (Maier 1986).

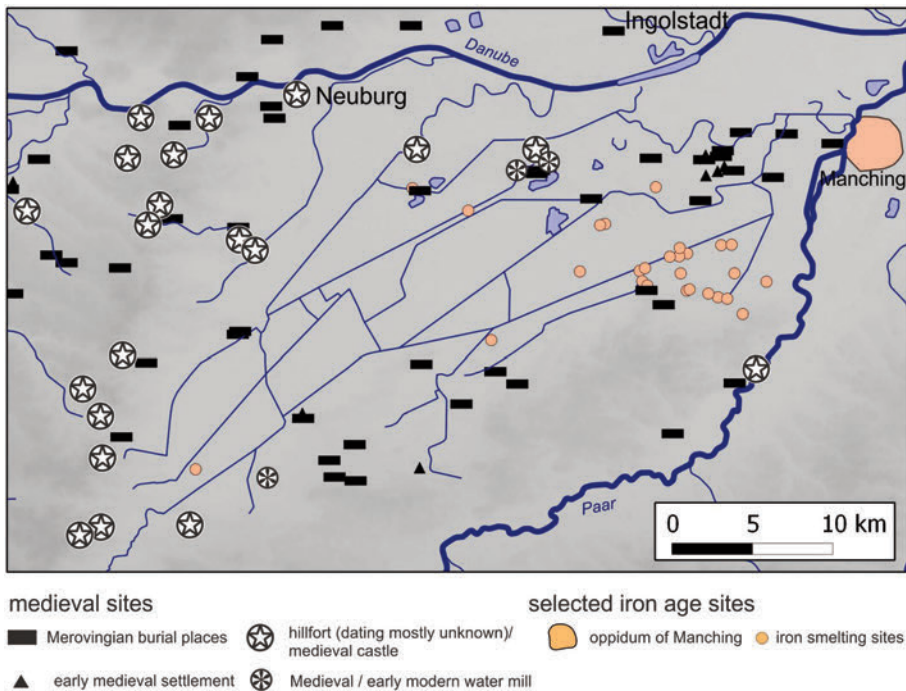


Fig. 5. Late iron Age and early medieval sites at the Donaumoos (data from Seitz 1937, Trier 2002 and BayernViewer Denkmal).

6. Low Mountain Ranges

Southern Germany is geographically characterised by several low mountain ranges. Some of them lack early medieval burial grounds as well as early place names, as the Black Forest, the württembergisch-fränkische Keuperland, the Palatinate mountains (and the adjacent French Vosges) as well as the Odenwald, the Spessart or the Ore Mountains. They were in general settled quite late mainly in the 11th-13th century and previous reconstructions of the "Urlandschaft" saw them as unsettled forested landscapes. These landscapes include altitudes close or above 1400 m asl, which were hardly suitable for agriculture. In contrast to several regions of the Swiss and Austrian Alps, where many scattered sites connected with a grazing economy are known (Meyer 1992; Geiser, Boscardin 1973; Hebert *et al.* 2007), there is little information on settlements at higher areas of the low mountain ranges.

Other landscapes within the German low mountain ranges are only at around 400-800 m asl and provide reasonable conditions for agriculture.

These landscapes, however, were often rangy with a rather cool climate and high precipitation. They were in fact vulnerable against climate changes, soil erosion and agrarian productivity was limited. Non-agrarian production and various resources were important factors for the occupation. Settlement occupation in several low mountain ranges shifted in altitudes during times (Christl 2004; Stadelbauer 1992). There are indications for an intensified occupation during the high and late Middle Ages, followed by a reduction of settlements during the 14th and 15th century. Possibly more suitable conditions during the medieval warm period favoured agrarian cultivation.

Archaeological research regarding the low mountain ranges concentrated in some landscapes, which have been researched over decades. This is especially true for the Northern periphery of the German low mountain ranges, where medieval rural settlements have been excavated already in the mid of the 20th century (Stephan, Tönsmeier 2010; Stephan 1979; Grimm 1939; Janssen 1965). In many cases, as for example in the low mountain ranges of the Weser region, there are plenty of deserted villages, showing a high vulnerability of these settlement landscapes.

In Southern Germany's low mountain ranges there is comparable little archaeological evidence other than churches, monasteries and castles (Schreg 2009a). This may be due to formation processes, because preservation conditions for typical settlement sites are often quite poor and possibilities of archaeological surveys are restricted by steep sediments and modern forests. Stone architecture of monasteries, churches or late medieval castles however has higher chances of preservation than rural settlements. Therefore, the archaeological record is biased and shows a preference for top-down perspectives. In consequence archaeological and historical research assumed an organized colonisation, driven either by the ambition of some noble families to establish their own territory, by monasteries engaged in cultivation and sovereigns investing in mining. Recent research in several regions of low mountain ranges in Southern Germany challenges these ideas.

6.1. Early medieval 'colonisation' at the Eastern Swabian Alb

A valuable case study comes from the Eastern Swabian Alb, north of Ulm. The Stubersheimer Alb at around 680 m a.s.l. is situated at the southern periphery of an area, that has been considered as an unsettled landscape during the early Middle Ages (fig. 1). Merovingian burials are missing, but place names ending with –heim, –hausen, and –stetten

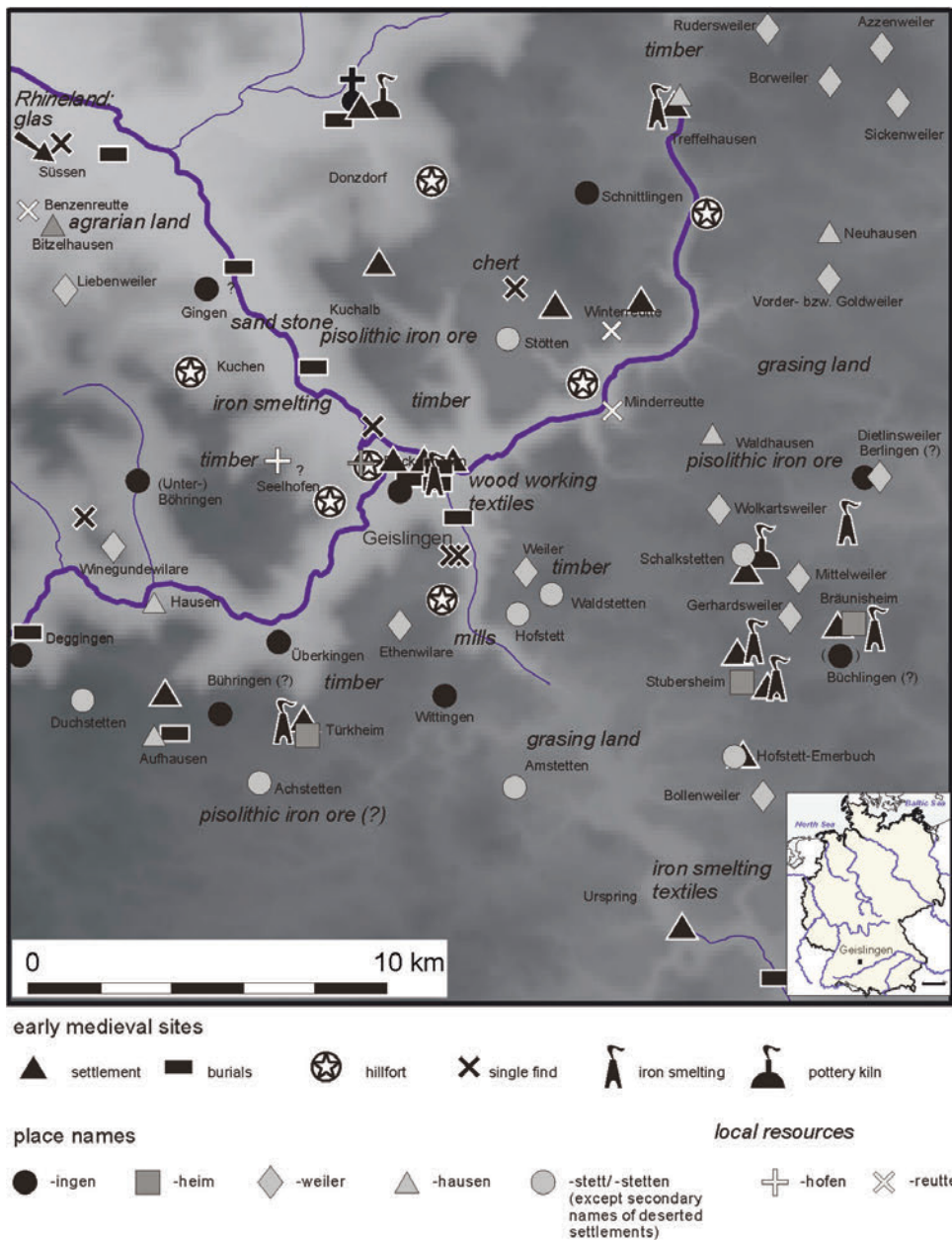


Fig. 6. Early medieval sites, place names and resources at the Stubersheimer Alb (graphics by R. Schreg).

were taken as an indication of a late Merovingian settlement, probably as a colonisation starting in the neighbouring Geislingen valley (Schreg 2009c). In contrast to many other areas there is a striking number of settlement sites grace to multi-annual surveys and a permanent surveillance of construction sites during many years (Kastowsky-Priglinger *et al.* 2013). There are several settlement sites dated by ceramics and radiocarbon samples to the 6th/7th century in the periphery of the late medieval villages. Slags of iron smelting are also known in large numbers from several locations, most of them close to the early medieval settlement sites. Previous studies in the area to the north showed evidence of extended early medieval iron smelting (Kempa 1995). Palynological studies at a small bog some kilometres to the north (Smettan 1995) showed little effects of settlements in pre-Roman times as well as during the Roman period. The increasing amount of birch pollen however indicates a shrubbery used for firewood. There is a first small peak on non-arboreal pollen during the migration period, followed by a second, somewhat more distinct peak during the early Middle Ages. This second peak correlates with the first evidence of settlements. The lowest amount of arboreal pollen dates to the late Middle Ages, followed by a reforestation, which probably reflects the numerous late medieval deserted settlements of the region (comp. Schreg 2013a).

Regarding the late medieval settlements, we learn of an important restructuring of the settlement sites. There is a concentration in the still existing villages, which first affects the early medieval sites and later on a number of late medieval hamlets. This late medieval villages are rather known from the written record than from archaeological evidence. There is, however, no indication, that iron smelting or other handcrafts played any important role within these communities. Even for the role of forestry, there is little evidence; just a place name indicates a log flume at the northern escarpment of the Alb.

It is quite clear from this example, that the 'colonisation' is a long term process, affecting landscapes far from being untouched or uncultivated. In a first phase resources as wood and iron ores were used, but later on the agrarian resources gained in importance. The settlement finds predate the common chronology of some of the place-names. Obviously, the foundation of settlements and their distinct naming belong to different stages of settlement history. It was probably only later, when an increasing interest in controlling these regions evolved. 'Colonisation' and 'cultivation' of these regions was not necessarily organised by some authorities, but may have been driven by local communities (Schreg 2008).

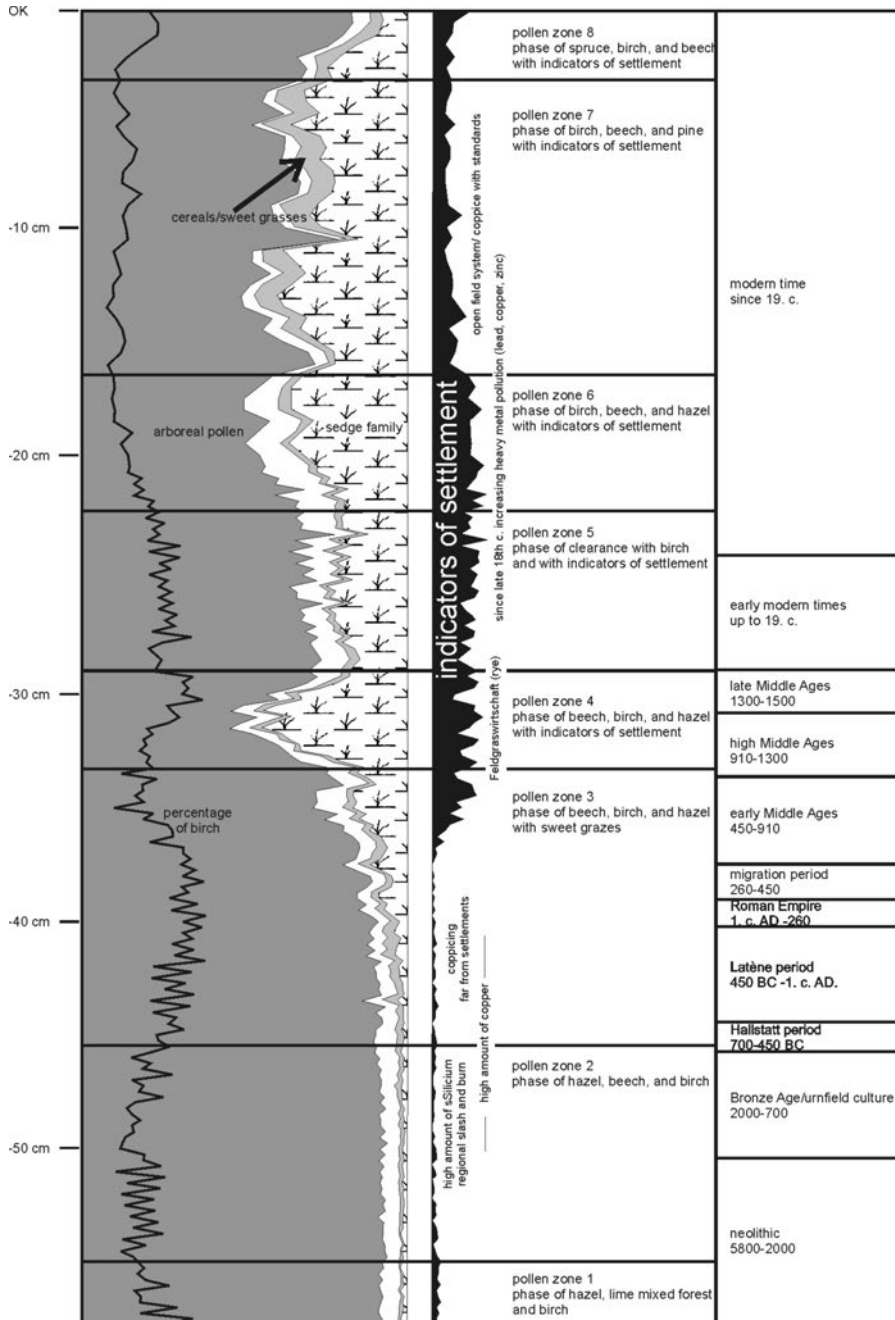


Fig. 7. Palynological studies at the Raue Wiese near Böhmenkirch (redrawn by the author, after Smettan 1995).

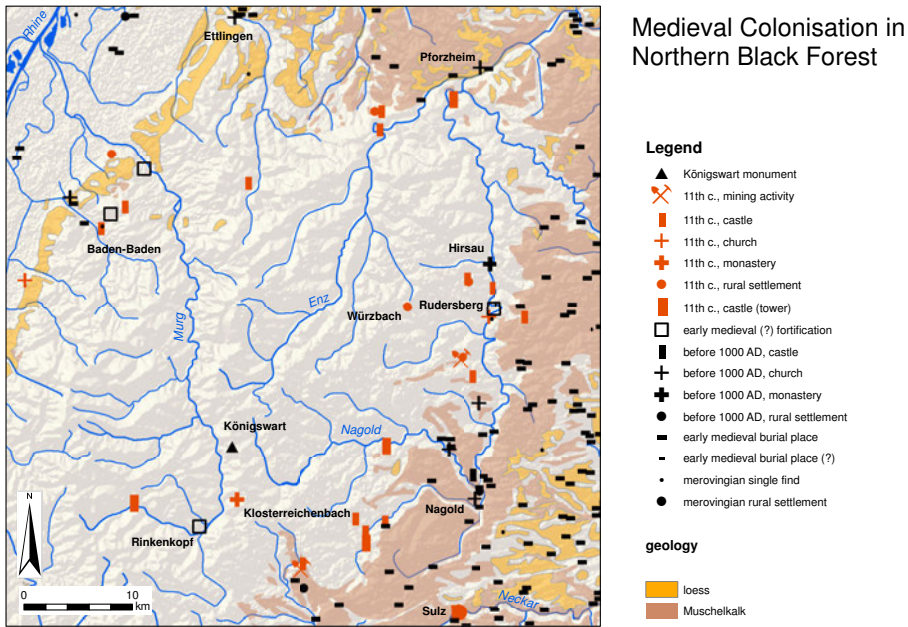


Fig. 8. Early medieval settlement in the Northern Black forest (graphic by the author).

6.2. 'Colonisation' and planned settlement in the Northern Black Forest

Another landscape of Southwest Germany, which has been seen as an uncultivated landscape is the Black Forest (comp. Lorenz 2001a; Schaab 2003). There are no archaeological sites, no early place names and no written documents, which could show an early medieval settlement activity. The only exception are the valleys of Nagold (Schreg 2009b), Breg (Klug-Treppe 2000) and Dreisam at the periphery of the mountains, restricted to some more fertile soils (Lengert *et al.* 2001). At Nagold there is evidence of a noble family since the second half of the 8th century, and there are graves going back to the 2nd half of the 5th century (Blaich 1999). Archaeological research revealed some medieval fortifications, churches and monasteries and in consequence developed the idea of a colonisation driven by feudal power. Castles have been understood according to Werner Meyer's theory of "Rodungsburgen" (Meyer 1979) as the centres of local territories of cultivation and resources exploitation (Lutz 1992). There are however several fortifications as the Rinkenköpf near Baiersbronn (Morrissey, Müller 2006), which have rather understood as refuge forts within an otherwise unsettled, remote landscape. In many cases, as for example in the nearby Southern Palatinate mountains

they have been linked to the Hungarian raids during the late 9th and early 10th century. Therefore their existence was rather taken as an indication for the uncultivated, remote character of these areas, rather than as an indication for some regional human activities (Pantermehl 2013).

The settlement of Oberwürzbach, abandoned at around AD 1400, situated in the northern Black Forest, 8 km west of Calw and directly south of Würzbach, allows for the first time some insights into rural settlements (Schreg 2009b; Schreg 2013b). Within a modern forest, the remains of around twenty farmsteads as well as the adjacent fossil fields are very well preserved. Research by methods of extensive archaeology show the typical form of a forest village, with long strip plots behind the farmsteads ('Waldhufendorf'), which have been understood as a phenomenon of a centrally organized colonization. There are, however, several indications for a complex genesis of this village. Stone alignments and dimensions of the plots preserved under forest are consistent with the field system of the still existing village of Würzbach, which is in itself a typical forest village. It is not quite clear if the abandoned settlement and the existing one were in existence at the same time or if the abandoned parts in the south were relocated to the existing village. Analysis of a 16th century rental, which lists all farmsteads of Würzbach (*Lagerbücher* 1958, pp. 127-129) shows the use of different surface measure systems in the western and eastern part of the village. This is an indication, that the settlement is not as homogenous as it may seem at the first glance. Either both parts are different in age or the once belonged to different authorities. Whatever, it becomes clear, that the formation of the regular plan of the Würzbach forest village is the result of some restructuring. Looking closer on the remains in the forest, we can identify two areas with the remains of small, block-shaped plots, which are by now undated. A nearby geoarchaeological test trench showed a huge deposit of colluvial sediments, ¹⁴C-dated to the late 7th to the early 11th century. This is a clear indication for intensive land use before the postulated 'colonisation' of that region, which has been connected with the authority either of the monastery of Hirsau or the counts of Calw (Lorenz 2001a).

Palynological studies in a peat bog appr. one kilometre northeast of Würzbach also indicated after an Iron Age settlement period a clearance in the early Middle Ages (Gassmann *et al.* 2006, pp. 298-300; Rösch 2009). At one profile (BRM 1), between the Roman period and the late Middle Ages there was a huge relocation of soils, bringing early Iron Age materials on the top of the Roman sediments. The second profile (BRM 4) provides more continuous data, showing pre-Roman and Roman activities as well as an opening of the landscape at latest in the 10th century.

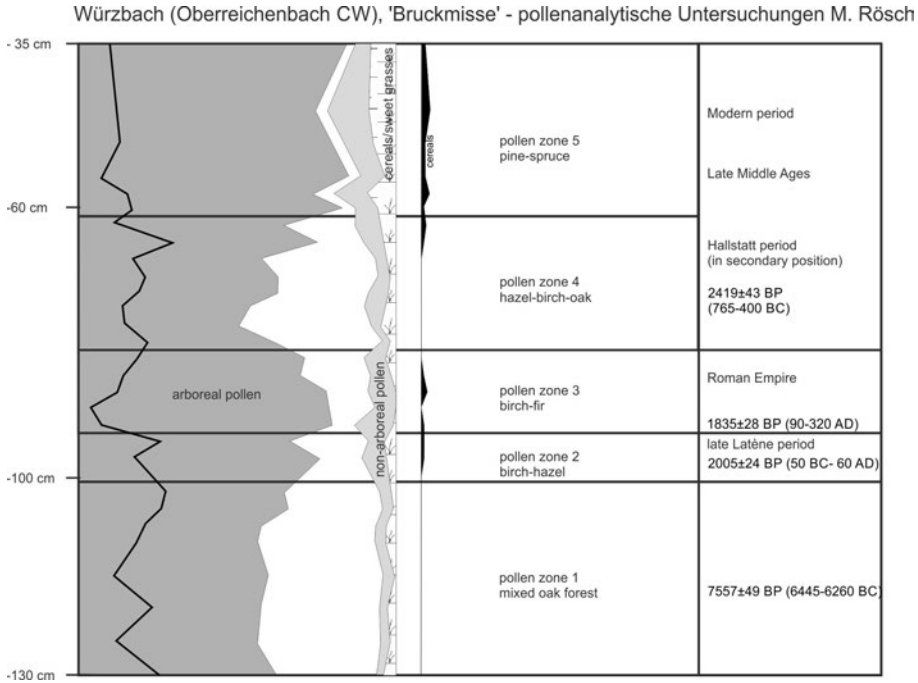


Fig. 9. Palynological studies at Bruckmisse 1 near Würzbach (redrawn by the author after Rösch 2009).

Hirsau monastery has been re-founded in 1069, but goes back to an earlier Carolingian foundation. Within the list of the original possession of the Carolingian monastery, only known from a later manuscript, Würzbach is mentioned, but historians filed this as a later interpolation.

As at the Swabian Alb, there are indications for some early medieval land use before a presumed colonisation of the landscape. Besides these indications of early medieval occupation we learned in recent years by new archaeological evidence of prehistoric iron smelting in the Nagold valley (Gassmann, Wieland 2007; Wieland 2009) and Roman presence in various valleys of the southern and central Black Forest (Wagner 2011). Similar observations have been made in other low mountain ranges in Southwest Germany. In most cases, it is geoarchaeology, which provides information on radiocarbon-dated soil erosion during the early medieval period in landscapes, which have been considered as uninhabited or uncultivated at that time. Examples come from the Southern Black Forest (Knopf *et al.* 2012) and the Pfälzerwald west of the Rhine (Pantermehl 2013).

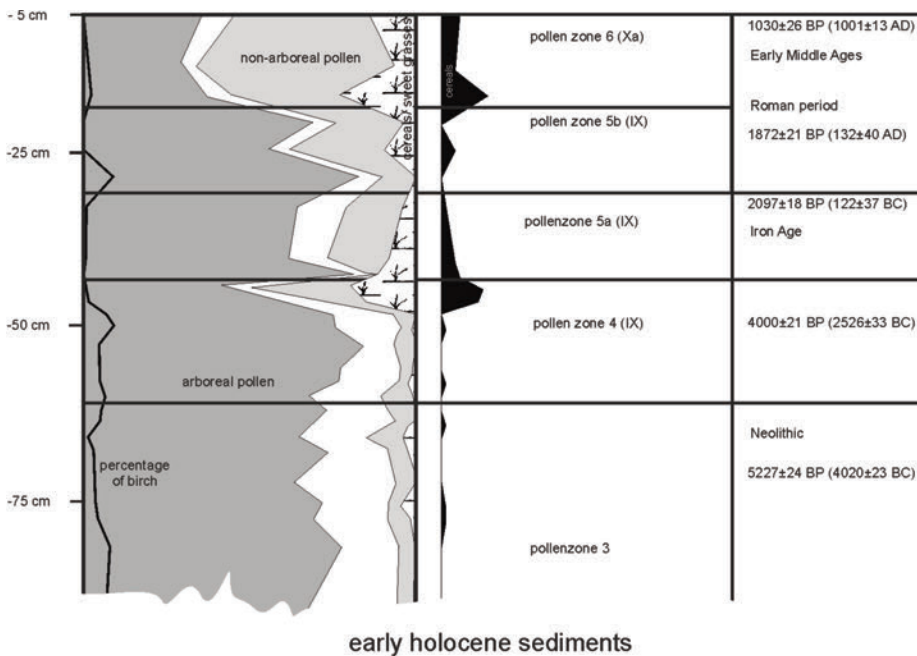


Fig. 10. Palynological studies at Bruckmisse 1 near Würzbach (drawn by the author, data from European Pollen Database, comp. Rösch 2009).

7. Outland use

The examples presented in the previous sections give important evidence, showing that the ‘uncultivated’ landscapes in the early Middle Ages were probably rather economic outlands than wilderness. Early medieval colonisation is in fact not the beginning of settlement activities, but rather a strengthening of agrarian grain production. In many cases rentals provide the most important written record. Because their main function is the administration of feuds and taxes, they concentrate on the farmsteads and their agrarian production, but provide little information on outland activities and handcraft. However, the fact that these activities were only present to a small degree within written sources, it may indicate an organisation at a local level or probably at the “middle ground”.

To understand the character of the outland use, we have only a small archaeological database. The probably important role of grazing in the low mountain ranges as well as in the floodplains is therefore quite difficult to judge. In general it is assumed, that during the migration period

livestock breeding played a predominant role. The small number of bioarchaeological studies does not allow the tracing of regional trends yet.

Other activities which were possibly important for the occupation of marginal landscapes are the metallurgical resources and the need for firewood. At the Stubersheimer Alb probably iron smelting was an important factor of the early migration period settlement phase. At the Donaumoos we have little modern research, but it is rather plausible that besides an important iron smelting of the Latène period, ores have also been extracted during the early Middle Ages. Within the Black forest there is also the possibility of iron smelting, even if up to date only smelting places of the Iron Age have been identified (Gassmann, Rösch, Wieland 2006). The later medieval settlement probably in the Black forest started in many cases with the production of glass, which can be identified archaeologically (Kneißler 2001; Jenisch 2001).

In the Pfälzerwald around 5 km northwest of the Cistercian monastery of Eußerthal, founded in 1148, there is a site of Carolingian tar production. The location is far from the early medieval agrarian landscapes in the Rhine valley and at some plateaus some kilometers to the south. We have little information about the settlement itself, as excavations concentrated on some kilns. There is however, a huge quantity of high quality ceramics, which probably comes from either permanent or at least seasonal living areas (Pantermehl 2013).

8. Conclusions

We have little information how floodplains and low mountain landscapes were in fact used during the early and high Middle Ages. There is enough evidence to state, that they were used in some ways in fact. It is better to talk of 'uncultivated' landscapes instead of 'natural' landscapes, but nevertheless we must be aware, that during the early Middle Ages 'uncultivated' landscapes were for sure cultural landscapes! The occupation of these marginal landscapes has been described as a colonisation. This has however some implications, which were unproven or even inadequate. Early medieval occupation in Southern Germany is not the conquest of a wilderness, it is the intensification of land use practices, changing the landscapes from marginal outlands to agrarian inlands. Furthermore, we have to question the role of the authorities, which have been emphasized according to the biased and selective written record. The important role of the rural lower classes for settlement changes has often been neglected (comp. Schreg 2013a).

Instead of the perspective on the politico-factual history we need a broader perspective, which takes the complex interaction of humans and their environment into account. Narratives of wilderness and their authoritarian organized colonisation have to be seriously re-evaluated. At least these concepts are much too simple to understand the complex interaction between environment and humans, which for an important part is coined by the ideas how landscape

Acknowledgments

This paper is related to the research project “Reiterkrieger, Burgenbauer” run by the RGZM Mainz and funded by the WGL 2010-2012. I am grateful to Gerd Riedl (Ingolstadt) for some information and B. Schroeder (Wallerstaedten) for her language check.

References

- Archäologisches Landesmuseum Baden-Württemberg 1997 = *Die Alamannen*, Ausstellungskatalog Stuttgart 1997, Stuttgart.
- K. ALTENBERG 2001, *Marginal Life: Experiencing a Medieval Landscape in the Periphery*, "Current Swedish Archaeology", 9, pp. 93-113.
- G. ALTHOFF 2012, *Die Macht der Rituale. Symbolik und Herrschaft im Mittelalter*, Darmstadt.
- H. ANDERSSON, L. ERSGÅRD, E. SVENSSON (eds) 1998, *Outland Use in Preindustrial Europe*, Stockholm.
- R. BECK 2003, *Ebersberg oder das Ende der Wildnis. Eine Landschaftsgeschichte*, München.
- B. BECKER 1992 *Römische Rodungen lösen Hochwasserkatastrophen aus*, in H.-P. KUHNEN (ed), *Gestürmt - Geräumt - Vergessen? Der Limesfall und das Ende der Römerherrschaft in Südwestdeutschland*, Stuttgart, pp. 71-73.
- N. BEREND 1999, *Medievalists and the Notion of the Frontier*, "The Medieval History Journal", 2, pp. 55-72. Online in: <http://mhj.sagepub.com/cgi/content/abstract/2/1/55>.
- H. BERNHARD 1982, *Die frühmittelalterliche Siedlung Speyer 'Vogelgesang'*, "Offa", 39, pp. 217-233.
- D. BLACKBOURN 2007, *Die Eroberung der Natur. Eine Geschichte der deutschen Landschaft*, München.
- M.C. BLAICH 1999, *Die alamannischen Funde von Nagold*, Kr. Calw, "Fundberichte aus Baden-Württemberg", 23, pp. 307-365.
- M. CHÂTELET 2002, *La céramique du haut Moyen Âge dans le sud de la vallée du Rhin supérieur (Alsace et Pays de Bade). Typologie, chronologie, technologie, économie et culture*, Montagnac.
- A. CHRISTL 2004, *Verschiebungen der Höhengrenzen der ur- und frühgeschichtlichen Besiedlung im Erzgebirge. Diskussion der Ursachen dargestellt am mittleren Bereich*, Langenweißbach.
- R. DAMBECK 2005, *Beiträge zur spät- und postglazialen Fluß- und Landschaftsgeschichte im nördlichen Oberrheingraben*, Frankfurt am Main.
- F. DAMMINGER, U. GROSS 2008, *Muffenheim, un habitat rural des VI^e/VII^e-XV^e siècles près de Rastatt (Allemagne)*, in J. GUILLAUME, É. PEYTREMANN (eds), *L'Austrasie. Sociétés, économies, territoires, christianisation*, Nancy, pp. 65-69.
- W. EICHINGER, H. LOSERT 2003, *Ein merowingerzeitliches Brandgräberfeld östlich-donauländischer Prägung bei Großprüfening*, "Das Archäologische Jahr in Bayern", pp. 98-101.
- D. ELLMERS 1972, *Frühmittelalterliche Handels-schifffahrt in Mittel- und Nordeuropa*, Neumünster.
- G. GASSMANN, M. RÖSCH, G. WIELAND 2006, *Das Neuenburger Erzrevier im Nordschwarzwald als Wirtschaftsraum während der Späthallstatt- und Frühlatènezeit*, "Germania", 84, pp. 273-306.
- G. GASSMANN, G. WIELAND 2007, *Systematische Untersuchungen an Eisenproduktionsstätten der Späthallstatt- und Frühlatènezeit im Erzrevier von Neuenbürg, Enzkreis*, "Archäologische Ausgrabungen in Baden-Württemberg", pp. 88-93.
- W. GEISER, M.-L. BOSCARDIN 1973, *Bergeten ob Braunwald. ein archäologischer Beitrag zur Geschichte des alpinen Hirtentums*, Basel.
- D. GRÄF 2006, *Boat Mills in Europe from Early Medieval to Modern Times*, Dresden.
- P. GRIMM 1939, *Hohenrode, eine mittelalterliche Siedlung im Südharz*, Halle.
- E. GRINGMUTH-DALLMER 1990, *Vergleichende Untersuchungen zum frühmittelalterlichen Landesausbau im westlichen Mitteleuropa*, Dissertation (B), Berlin.
- A. HARTMANN, R. WOLF 1975, *Vergleichende Spektralanalysen an einigen frühmittelalterlichen Goldfunden und Goldblattkreuzen*, in W. HÜBENER (ed), *Die Goldblattkreuze des frühen Mittelalters*, Buhl/Baden, pp. 23-30.
- B. HEBERT, B. KIENAST, F. MANDL (eds) 2007, *Königreichalm - Dachsteingebirge. 3500 Jahre Almwirtschaft zwischen Gröbming und Hallstatt*, Forschungsberichte der ANISA 1, Haus im Ennstal.
- B. HERRMANN 2013, *Umweltgeschichte. Eine Einführung in Grundbegriffe*, Berlin.

- O. HÖCKMANN 1997, *Eine Schiffsmühle aus Gimsheim (Kreis Alzey-Worms)*, in A. WIECZOREK, P. PÉRIN (eds), *Die Franken, Wegbereiter Europas I*, Mainz, pp. 786-788.
- I. HOLM 2002, *A Cultural Landscape beyond the Infield/Outfield Categories. An Example from Eastern Norway*, "Norwegian Archaeological Review", 35, pp. 67-80.
- P. HOSER 2011, *Die Donaumooskultivierung und ihre Folgen*, in R. KIESSLING (ed), *Umweltgeschichte in der Region*, Konstanz, pp. 205-238.
- H. JANICHEN 1955, *Siedlung im oberen Schli-chemental von der Merowingerzeit bis zum 19. Jahrhundert*, "Alemannisches Jahrbuch", pp. 29-59.
- W. JANSSEN 1965, *Königshagen, ein archäologisch-historischer Beitrag zur Siedlungsgeschichte des südwestlichen Harzvorlandes*, Hildesheim.
- B. JENISCH 2001, *Die mittelalterlichen und frühneuzeitlichen Glashütten im Gebiet des Klosters St. Blasien*, in J. PFROMMER, R. SCHREG (eds), *Zwischen den Zeiten. Archäologische Beiträge zur Geschichte des Mittelalters in Mitteleuropa. Festschrift für Barbara Scholkmann*, Rahden/Westf., pp. 319-331.
- K. KASTOWSKY-PRIGLINGER, R. SCHREG, I. TRINKS, E. NAU, K. LÖCKER, W. NEUBAUER 2013, *Long term integrated archaeological prospection on the Stubersheimer Alb - giving meaning to a marginal landscape*, in W. NEUBAUER, I. TRINKS, R.B. SALISBURY, C. EINWÖGERER (eds), *Archaeological Prospection*, Proceedings of the 10th International Conference (Vienna, May 29th - June 2nd 2013), Wien, pp. 99-100.
- M. KEMPA 1995, *Die Verhüttungsplätze, in Beiträge zur Eisenverhüttung auf der Schwäbischen Alb*, Forschungen und Berichte zur Vor- u. Frühgeschichte in Baden-Württemberg 55, Stuttgart, pp. 147-192.
- J. KLUG-TREPPE 2000, *Steingrabhügel auf Gemarkung Bräunlingen, Schwarzwald-Baar-Kreis*, "Archäologische Ausgrabungen in Baden-Württemberg", pp. 49-51.
- R. KNEIBLER 2001, *Auf den Spuren alter Waldgewerbe*, in LORENZ 2001b, pp. 104-108.
- T. KNOPF, T. BAUM, T. SCHOLTEN, P. KÜHN 2012, *Landnutzung im frühen Mittelalter. Eine archäopedologische Prospektion im Mittleren Schwarzwald*, "Archäologisches Korrespondenzblatt", 42, pp. 123-133.
- T. KOHL 2010, *Lokale Gesellschaften. Formen der Gemeinschaft in Bayern vom 8. bis zum 10. Jahrhundert*, Stuttgart.
- L. KRÖGER 2013 (in press), *Zwischen Main und Alpenrand Ein Überblick zu den archäologischen Hinterlassenschaften von Wasserfahrzeugen in Süddeutschland*, "Fines transire", 22.
- H. KÜSTER 2001, *Wald und Wüstung in der Völkerwanderungszeit*, "Siedlungsforschung", 19, pp. 95-102.
- H. KÜSTER 2003, *Geschichte des Waldes. von der Urzeit bis zur Gegenwart*, München.
- Lagerbücher* 1958 = *Altwürttembergische Lagerbücher aus der österreichischen Zeit 1520-1534*, Bd. 1. Veröffentlichungen der Kommission für geschichtliche Landeskunde Baden-Württemberg A, 1. Stuttgart.
- K. LASCHEWSKI 2001, *Phantastische Märchen und Sagen aus dem Nordschwarzwald*, in LORENZ 2001b, pp. 194-206.
- A. LECHNER 2005, *Paläoökologische Beiträge zur Rekonstruktion der holozänen Vegetations-, Moor- und Flussauenentwicklung im Oberrheintiefland*, Freiburg.
- D. LENGERT, S. KILLINGER, C. BRENNER 2001, *Archäologische Funde - frühe Spuren der Besiedlung*, in LORENZ 2001b, pp. 26-34.
- R.P.H. LOMMERZHEIM 1988, *Die frühmittelalterlichen Siedlungen von Merdingen und Breisach-Hochstetten in Südbaden*, Dissertation, Bonn.
- S. LORENZ 2001a, *Die Siedlungsentwicklung im Osten*, in LORENZ 2001b, pp. 36-51.
- S. LORENZ (ed) 2001b, *Der Nordschwarzwald. Von der Wildnis zur Wachstumsregion*, Filderstadt.
- D. LUTZ 1992, *Archäologische Beiträge zur Besiedlung des nördlichen Schwarzwaldes im Früh- und Hochmittelalter*, in H.W. BÖHME (ed), *Siedlungen und Landesausbau zur Salierzeit 2. In den südlichen Landschaften des Reiches*, Sigmaringen, pp. 15-38.

- R.A. MAIER 1986, *Frühgeschichtliche Mooropfer von Bernsteinhalsketten im 'Donaumooß' und 'Erddinger Moos'*, Landkreise Neuburg-Schrobenhausen und Freising, Oberbayern, "Das Archäologische Jahr in Bayern", pp. 135-137.
- W. MEYER 1979, *Rodung, Burg und Herrschaft. Ein burgenkundlicher Beitrag zur mittelalterlichen Siedlungsgeschichte*, in W. MEYER (ed), *Burgen aus Holz und Stein*, Freiburg i.Br., pp. 43-80.
- W. MEYER 1992, *Die hochmittelalterliche Siedlungsentwicklung im zentralen Alpenraum. Die Erschließung marginalen Landes in salischer Zeit*, in H.W. BÖHME (ed), *Siedlungen und Landesausbau zur Salierzeit 2. In den südlichen Landschaften des Reiches*, Sigmaringen, pp. 57-66.
- C. MORRISSEY 2008, *Frühmittelalterliche Höhensiedlungen und Befestigungen*, in D. ADE, B. RÜTH, A. ZEKORN (eds), *Alamannen zwischen Schwarzwald*, Stuttgart, pp. 75-77.
- C. MORRISSEY, D. MÜLLER 2006, *Die Rinkenmauer bei Baiersbronn*, Vor- und frühgeschichtliche Befestigungen 19. Mit einem Exkurs zum Kapellenbuckel am Wildsee (Landkreis Freudenstadt). Atlas archäologischer Geländedenkmäler in Baden-Württemberg 2, Stuttgart.
- H. MUSALL 1969, *Die Entwicklung der Kulturlandschaft der Rheinniederung zwischen Karlsruhe und Speyer vom Ende des 16. bis zum Ende des 19. Jahrhunderts*, Heidelberg.
- H.-J. NITZ 1974, *Regelmäßige Langstreifenfluren und fränkische Staatskolonisation. Eine Untersuchung ihrer Zusammenhänge im westlichen Oberrheingebiet und anderen deutschen Landschaften*, in H.-J. NITZ (ed), *Historisch-genetische Siedlungsforschung. Genese und Typen ländlicher Siedlungen und Flurformen*, Darmstadt, pp. 334-360.
- J. OSTERHAMMEL 2010, *Die Verwandlung der Welt. Eine Geschichte des 19. Jahrhunderts*, Bonn.
- H. PANTERMEHL 2013, *Haltestelle Zentralort - Anwendung von Modellen der Zentralortsforschung auf Mittelgebirgszonen am Beispiel der Pfälzerwaldes*, in P. ETTTEL, L. WERTHER (eds), *Zentrale Orte und zentrale Räume des Frühmittelalters in Süddeutschland*, Mainz, pp. 175-191.
- M. RÖSCH 2009, *Botanical Evidence for Prehistoric and Medieval Land Use in the Black Forest*, in J. KLAPSTE, P. SOMMER (eds), *Medieval Rural Settlement in Marginal Landscapes*, Turnhout, pp. 335-343.
- W. RÖSENER 2012, *Die Grundherrschaft als Forschungskonzept. Strukturen und Wandel der Grundherrschaft im deutschen Reich (10.-13. Jahrhundert)*, "Zeitschrift der Savigny-Stiftung Rechtsgesch. Germanist. Abt.", 129, pp. 41-75.
- M. SCHAAB 2003, *Beiträge zur Siedlungs- und Wirtschaftsgeschichte des Schwarzwaldes*, Veröffentlichungen der Kommission für geschichtliche Landeskunde Baden-Württemberg B 156, Stuttgart.
- W. SCHENK 2002, "Landschaft" und "Kulturlandschaft" - "getönte" Leitbegriffe für aktuelle Konzepte geographischer Forschung und räumlicher Planung, "Petermanns Geographische Mitteilungen", 146, pp. 6-13.
- W. SCHLESINGER (ed) 1975, *Die deutsche Ostsiedlung des Mittelalters als Problem der europäischen Geschichte*, Sigmaringen.
- O. SCHLÜTER 1952, *Die Siedlungsräume Mitteleuropas in frühgeschichtlicher Zeit. 1. Einführung in die Methodik der Altlandschaftsforschung*, Remagen.
- O. SCHLÜTER 1953, *Die Siedlungsräume Mitteleuropas in frühgeschichtlicher Zeit 2/1. Erklärung und Begründung der Darstellung. Das südliche und nordwestliche Mitteleuropa*, Remagen.
- H. SCHMOLZ 1959, *Die Entstehung eines Dorfes: Oberböhringen*, "Helfenstein. Geschichtliche Mitteilungen von Geislingen und Umgebung", 16, pp. 72-80.
- R. SCHREG 2006, *Dorfgenese in Südwestdeutschland. Das Renninger Becken im Mittelalter*. Materialhefte zur Archäologie in Baden-Württemberg 76. Stuttgart.
- R. SCHREG 2008, *Before colonization: early medieval land-use of mountainous regions in Southern and Western Germany*, in C. BARTELS, C. KÜPPER-EICHAS (eds), *Cultural Heritage and Landscapes in Europe - Landschaften - kulturelles Erbe in Europa*, Internationale Konferenz 6.-10. Juni 2007 im Deutschen Bergbau-Museum Bochum, Bochum, pp. 293-312.

- R. SCHREG 2009a, *Archäologische Wüstungsforschung und spätmittelalterliche Landnutzung: Hausbau und Landnutzung des Spätmittelalters in Südwestdeutschland aus archäologischer Sicht*, in P. RÜCKERT, S. LORENZ (eds), *Landnutzung und Landschaftsentwicklung im deutschen Südwesten. Zur Umweltgeschichte im späten Mittelalter und in der frühen Neuzeit*, Stuttgart, pp. 131-163.
- R. SCHREG 2009b, *Development and abandonment of a cultural landscape - archaeology and environmental history of medieval settlements in the northern Black Forest*, in J. KLÁPŠTĚ, P. SOMMER (eds), *Medieval Rural Settlement in Marginal Landscapes*, Turnhout, pp. 315-333.
- R. SCHREG 2009c, *Die mittelalterliche Siedlungslandschaft um Geislingen - eine umwelthistorische Perspektive*, in H. GRUBER (ed), *"in oppido Geislingen..." 1108-2008*, Acht Vorträge zum 900 jährigen Jubiläum von Geislingen. Veröffentlichungen des Stadtarchivs Geislingen, 26, Geislingen, pp. 9-96.
- R. SCHREG 2012a, *Farmsteads in early medieval Germany - architecture and organisation*, "Arqueologia de la Arquitectura", 9, pp. 247-265.
- R. SCHREG 2012b, *Keramik des 9. bis 12. Jahrhunderts am Rhein. Forschungsperspektiven auf Produktion und Alltag*, in H. PANTERMEHL, L. GRUNWALD, R. SCHREG (eds), *Hochmittelalterliche Keramik am Rhein. Eine Quelle für Produktion und Alltag des 9. bis 12. Jahrhunderts*, Mainz, pp. 1-19.
- R. SCHREG 2012c, *Kontinuität und Fluktuation in früh- und hochmittelalterlichen Siedlungen*, in C. FEY, S. KRIEB (eds), *Adel und Bauern in der Gesellschaft des Mittelalters*, Internationales Kolloquium zum 65. Geburtstag von Werner Rösener, Korb, pp. 137-164.
- R. SCHREG 2013a, *Commons, cooperatives and village communes - geographical and archaeological perspectives on the role of rural lower classes in settlement restructuring at the Swabian Alb plateau*, in J. KLÁPŠTĚ (ed), *Hierarchies in Rural Settlements*, Turnhout, pp. 101-121.
- R. SCHREG 2013b, *Würzbach - ein Waldhufendorf im Nordschwarzwald*, in C. THEUNE-VOGT, G. SCHARRE-LIŠKA, E.H. HUBER, T. KÜHTREIBER (eds), *Stadt - Land - Burg*, Festschrift für Sabine Felgenhauer-Schmiedt zum 70. Geburtstag, Rahden, Westf., pp. 189-202.
- R. SCHREG 2014, *Ecological approaches in medieval rural archaeology*, "European Journal of Archaeology", 17(1), pp. 83-119.
- R. SCHREG in press a, *A European Town in a Tropical Environment: Cultural Adaptation and Environmental Change in Colonial Panamá*, in B. SCHOLKMAN, R. SCHREG, A. ZEISCHKA-KENZLER (eds), *A step to a global world. Historical Archaeology in Panamá. German Researches on the first Spanish city at the Pacific Ocean*.
- R. SCHREG in press b, *Archäologische Beobachtungen zur Größenentwicklung merowingerzeitlicher Gräberfelder in Süddeutschland*, in C. MEYER, P. HELD, C. KNIPPER, N. NICKLISCH (eds), *Der Zahn der Zeit. Festschrift K.W. Alt*. Halle.
- K. SCHREINER 2000, *Grundherrschaft - ein neuzeitlicher Begriff für eine mittelalterliche Sache*, in G. DILCHER, C. VIOLANTE (eds), *Strukturen und Wandlungen der ländlichen Herrschaftsformen vom 10. zum 13. Jahrhundert. Deutschland und Italien im Vergleich*, Schr. Italien.-dtsh.Hist. Inst. Trient 14, Berlin, pp. 69-93.
- H.J. SEITZ 1937, *Vorgeschichtliche Eisengewinnung im Donaumoos*, "Germanen-Erbe", 2, pp. 110-118.
- J.E. SHEROW 1992, *Workings of the Geodialectic: High Plains Indians and Their Horses in the Region of the Arkansas River Valley, 1800-1870*, "Environmental History Review", 16, pp. 61-84, Online in: www.jstor.org/stable/3984929.
- R.P. SIEFERLE 1990, *Bevölkerungswachstum und Naturhaushalt. Studien zur Naturtheorie der klassischen Ökonomie*, Frankfurt am Main.
- H.W. SMETTAN 1995, *Archäoökologische Untersuchungen auf dem Albuch*, in *Beiträge zur Eisenverhüttung auf der Schwäbischen Alb*, Stuttgart, pp. 37-146.
- H.W. SMETTAN 2000, *Vegetationsgeschichtliche Untersuchungen am oberen Neckar im Zusammenhang mit der vor- und frühgeschichtlichen Besiedlung*, Stuttgart.
- J. STADELBAUER 1992, *Ressourcenbewertung und Siedlungsentwicklung in höheren Mittelgebirgen am Beispiel der Vogesen*, "Siedlungsforschung", 10, pp. 79-104.
- H.-G. STEPHAN 1979, *Archäologische Studien zur Wüstungsforschung im südlichen Weserbergland*, Hildesheim.

- H.-G. STEPHAN, H.D. TÖNSMEYER 2010, *Der Söling im Mittelalter. Archäologie - Landschaft - Geschichte im Weser- und Leinebergland*, Dormagen.
- I. STORK 2010, *Friedhof und Dorf - der exemplarische Fall Lauchheim*, in A. GUT (ed), *Die Alamannen auf der Ostalb. Frühe Siedler im Raum zwischen Lauchheim und Niederstotzingen*, Esslingen, pp. 92-105.
- L. SZÜCS 2010, *Auenbewirtschaftungsformen an der Theiß*, in B. HERRMANN, U. KRUSE (eds.), *Schauplätze und Themen der Umweltgeschichte. Umwelthistorische Miscellen aus dem Graduiertenkolleg; Werkstattbericht*, Göttingen, pp. 237-249.
- F.J. TURNER 1920, *The Frontier in American History*, New York.
- H. VOLK 2006, *Landschaftsgeschichte und Natürlichkeit der Baumarten in der Rheinaue*, "Waldschutzgebiete Baden-Württemberg", 10, pp. 159-167.
- H. WAGNER 2011, *Römische Besiedlung im Schwarzwald - von der Auffindung des Undenkbaren*, "Archäologische Nachrichten aus Baden", 82, pp. 10-26.
- E. WEID 2000, *Die Kleinfunde der mittelalterlichen Siedlung von Zuchering bei Ingolstadt*, Büchenbach.
- K. WELLER 1938, *Besiedlungsgeschichte Württembergs vom 3. bis 13. Jahrhundert n. Chr.*, Stuttgart.
- W.H. WERNSDORFER 2002, *Malaria in Mitteleuropa*, in H. ASPÖCK (ed), *Amöben, Bandwürmer, Zecken. Parasiten und parasitäre Erkrankungen des Menschen in Mitteleuropa*, Kataloge des Oberösterreichischen Landesmuseums 184, Linz, pp. 201-212.
- R. WHITE 2005, *The Middle Ground. Indians, Empires, and Republics in the Great Lakes Region, 1650-1815*, Milwaukee, Wis.
- G. WIELAND 2009, *Vorgeschichtliche Höhensiedlungen am Rand des Nordschwarzwaldes. Überlegungen zur eisenzeitlichen Besiedlung eines besonderen Naturraumes*, in J. BIEL, J. HEILIGMANN, D. KRAUSSE (eds), *Landesarchäologie*, Festschrift für Dieter Planck zum 65. Geburtstag, Stuttgart, pp. 193-206.
- D. WORSTER 1990, *Transformations of the Earth: toward an agroecological perspective in history*, "The Journal of American History", 76, pp. 1087-1106.
- A. ZEKORN 2008, *Gräber und Ortsnamen. Zeugnisse der Alamannenzeit zur Siedlungsgeschichte im Raum des Zollernalbkreises*, in D. ADE, B. RÜTH, A. ZEKORN (eds), *Alamannen zwischen Schwarzwald, Neckar und Donau*, Stuttgart, pp. 62-67.
- L. ZÖGNER 1966, *Hugenottendörfer in Nordhessen. Planung Aufbau und Entwicklung von siebzehn französischen Emigrantenkolonien*, Marburg.

VOLUME 1/2011

EDITORIAL

RESEARCH. **C. Giostra** Goths and Lombards in Italy: the potential of archaeology with respect to ethno-cultural identification. **S. Hakenbeck** Roman or barbarian? Shifting identities in early medieval cemeteries in Bavaria. **V. La Salvia** Tradizioni tecniche, strutture economiche e identità etniche e sociali fra *Barbaricum* e Mediterraneo nel periodo delle Grandi Migrazioni. **V. Fronza** Edilizia in materiali deperibili nell'alto medioevo italiano: metodologie e casi di studio per un'agenda della ricerca. **C. Negrelli** Potenzialità e limiti delle ricerche sugli indicatori ceramici nelle regioni altoadiatiche e padane tra tardo antico e alto medioevo. **F. Cantini** Dall'economia

pca
european journal of
postclassical archaeologies



complessa al complesso di economie (Tuscia V-X secolo). **F. Salvadori** Zooarcheologia e controllo delle risorse economiche locali nel medioevo. **A. Colecchia, L. Casagrande, F. Cavulli, L. Mura, M. Nebbia** Paesaggi medievali del Trentino (progetto APSAT). **V. Caracuta** Ambiente naturale e strategie agroalimentari in Puglia settentrionale tra tardo antico e alto medioevo: l'esempio di Faragola (FG). **A.M. Grasso** Analisi archeobotaniche a Supersano (LE): una comunità autosufficiente? **L. Spera** Le forme della cristianizzazione nel quadro degli assetti topografico-funzionali di Roma tra V e IX secolo. **E. Destefanis** Archeologia dei monasteri alto-medievali tra acquisizioni raggiunte e nuove prospettive di ricerca. **C. Ebanista** Le chiese tardoantiche e altomedievali della Campania: vecchi scavi, nuovi orientamenti

RETROSPECT. **G.P. Brogiolo** Alle origini dell'archeologia medievale in Italia. **S. Gelichi** Fortunate coincidenze? **G. Vannini** Elio Conti e l'archeologia medievale. **G.P. Brogiolo** Formazione di un archeologo medievista tra Veneto e Lombardia. **H. Blake** Professionalizzazione e frammentazione: ricordando l'archeologia medievale nel lungo decennio 1969-1981. **R. Hodges** Introducing medieval archaeology to Molise, 1977-1980. **D. Andrews** Remembering medieval archaeology in Italy in the 1970s. **B. Ward-Perkins** A personal (and very patchy) account of medieval archaeology in the early 1970s in northern Italy.

PROJECT. **J. Baker, S. Brookes, A. Reynolds** Landscapes of Governance. Assembly sites in England 5th-11th centuries

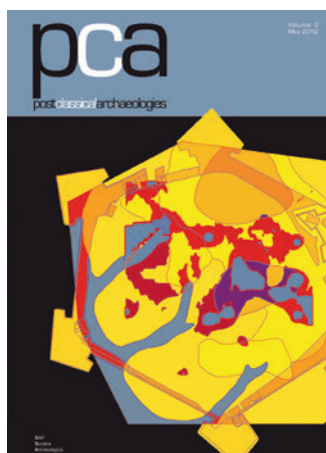
REVIEWS

VOLUME 2/2012

EDITORIAL

RESEARCH. G. Dean GIS, archaeology and neighbourhood assemblages in Medieval York. **É. Jean-Curret** SIG, morphologie et archives foncières médiévales: dynamiques spatiales d'un quartier de Bordeaux aux XIV^e et XV^e s. **B. Lefebvre** The study of urban fabric dynamics in long time spans. Modelling, analysis and representation of spatio-temporal transformations. **T. Bisschops** It is all about location: GIS, property records and the role of space in shaping late medieval urban life. The case of Antwerp around 1400. **A. Nardini** Siena: un 'prototipo' di GIS di fine millennio a dieci anni dalla creazione. **V. Valente** Space syntax and

pca
european journal of
postclassicalarchaeologies



urban form: the case of late medieval Padua. **C. Citter** Townscape-Landscape. The shaping of the medieval town of Grosseto and its territory (AD 600-1400). **K.D. Lilley** Mapping truth? Spatial technologies and the medieval city: a critical cartography.

BEYOND THE THEME. V. Caracuta, G. Fiorentino, M. Turchiano, G. Volpe Processi di formazione di due discariche altomedievali del sito di Faragola: il contributo dell'analisi archeobotanica. **P. Forlin** Airborne LiDAR Data analysis of Trentino Alpine landscapes: a methodological approach.

DOSSIER - PUBLIC ARCHAEOLOGY IN EUROPE. G.P. Brogiolo Archeologia pubblica in Italia: quale futuro? **J. Flatman** The past, present and future of rescue archaeology in England. **F. Iversen** The land of milk and honey? Rescue archaeology in Norway. **I. Catteddu, M.A. Baillieu, P. Depaepe, A. Rofignon** L'archéologie préventive en France: un service public original. **A. León** Public administration of archaeology in Spain. Notes on the current situation and future prospects.

RETROSPECT. A. Buko Early Medieval archaeology in Poland: the beginnings and development stages.

PROJECT. P. Chevalier *Le Corpus architecturae religiosae europeae, saec. IV-X*, en France et la base de données Wikibridge CARE.

REVIEWS

VOLUME 3/2013

EDITORIAL

RESEARCH. M. Vohberger Past, present and future perspectives in stable isotope analysis: capabilities and constraints. **G. Grupe** Stable isotope sourcing in physical anthropology: application of mixing models. **K. Killgrove** Biohistory of the Roman Republic: the potential of isotope analysis of human skeletal remains. **S. Inskip** Islam in Iberia or Iberian Islam: bioarchaeology and the analysis of emerging Islamic identity in Early Medieval Iberia. **S. Hakenbeck** Potentials and limitations of isotopes analysis in Early Medieval archaeology. **M. Marinato** Gli studi di bioarcheologia dei cimiteri medievali in Italia

pca
european journal of
postclassical archaeologies



BEYOND THE THEME. E. Castiglioni, M. Rottoli Broomcorn millet, fox-tail millet and sorghum in North Italian Early Medieval sites. **C. Nicosia, Y. Devos, Q. Borderie** The contribution of geosciences to the study of European Dark Earths: a review. **S. Bertoldi** Spatial calculations and archaeology. Roads and settlements in the cases of Valdorcia and Valdarbia (Siena, Italy). **G. De Venuto** Carni, lane e pellame nell'Italia del medio e basso versante adriatico, tra X e XV secolo. **A. Rotolo, J.M. Martín Civantos** Rural settlement patterns in the territory of Baida (Trapani Mountains) during the Islamic period. **M. Migliavacca, F. Carraro, A. Ferrarese** Nelle viscere della montagna. Paesaggi pre-industriali sulla dorsale Agno-Leogra

DOSSIER - EMERGENZA, TUTELA E CONCESSIONI DI SCAVO IN ITALIA. G.P. Brogiolo Università e gestione del patrimonio archeologico in un Paese a 'tutela regolamentata'. **L. Malnati** Libertà di ricerca e tutela del patrimonio archeologico: una breve nota. **A.M. Ardivino** Qualche considerazione sulle concessioni di scavo. **G. Volpe** A proposito delle 'concessioni di scavo' e dei rapporti tra Università e Soprintendenze. **R. Zucca** Il rapporto tra Università e Soprintendenze per i Beni Archeologici nella ricerca archeologica ex art. 88 D. Lgs. 42/2004

RETROSPECT. B. Scholkmann The discovery of the hidden Middle Ages: the research history of medieval archaeology in Germany

PROJECT. L. Ten Harkel Landscapes and Identities: the case of the English landscape c. 1500 BC - AD 1086

REVIEWS



Capitolo I. **IDEE DI CITTÀ**

I.1. Le testimonianze dei contemporanei; I.2. L'interpretazione degli studiosi; I.3. La storia della città attraverso l'archeologia

Capitolo II. **LA FINE DELLA CITTÀ CLASSICA**

II.1. La fine delle infrastrutture; II.2. Il foro e le sedi pubbliche; II.3. Le grandi terme; II.4. I templi; II.5. Declino e fine dell'intrattenimento pubblico; II.6. La fine delle *domus*

Capitolo III. **LA COSTRUZIONE DELLA CITTÀ MEDIEVALE**

III.1. I nuovi protagonisti; III.2. Il ridisegno della città antica; III.3. Edifici, spazi e idee della città cristiana; III.4. Le città di nuova fondazione (V-IX secolo); III.5. Paesaggi policentrici

Capitolo IV. **ECONOMIA E SOCIETÀ URBANE**

IV.1. Le architetture residenziali come indicatore economico e sociale; IV.2. Produzioni e mercati; IV.3. Un'economia regionalizzata; IV.4. Simboli e rappresentazioni di una nuova società urbana

Capitolo V. **ALCUNE LINEE PER UNA DIAGNOSI COMPLESSIVA**

V.1. Differenti spiegazioni per la fine della città classica; V.2. Le origini della città medievale; V.3. Declino, trasformazione o ripartenza?