Recent developments in the study of Early Bronze Age Crete (Early Minoan Period)

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Abstract: The production and publication of new research on the Cretan Early Bronze has accelerated tremendously in the last decades. This article aims to present the highlights and main trends in the last 15 years: the sites, the excavations, the research projects and the main publications. Moreover, it explores how the new data interlinks with the extremely large body of information available from more than 100 years of archaeological studies on Crete. The aim of such a review is to eventually identify the larger patterns of research, the popular themes, the strengths and weaknesses of the data recovered, and to consider the place of Early Bronze Crete in current trends in Mediterranean Prehistory and archaeology as a whole.

Introduction

This article presents an extensive, but not exhaustive, review of new data and research on the Cretan Early Bronze Age (EBA) published until summer 2019 including reports from the *Archaiologikon Deltion*, the *Praktika tes en Athenais Archaiologikes Hetaireias*, *Archaeology in Greece Online*, *Ergo Kretes* and the ongoing publication of the 12th International Congress of Cretan Studies as well as other publications.

There are three particularities that the reader should be aware of first. The first is the continuing preponderance of mortuary sites in the study of EBA Crete, largely explained by biases in archaeological preservation as most cemeteries are not buried underneath later remains as is the case for EBA settlements. Excavation procedures have become more demanding and time consuming, leading to less time to dig deeper into the Prepalatial levels. The funerary context of most of the data presents a strong and particular bias in the study of EBA Crete. Second, the article avoids the term 'Early Minoan' to refer to the period and uses instead the term 'EBA Crete', although ceramic dating conventions are kept for clarity (e.g. Early Minoan [EM] I, IIA, IIB and III) (Fig. 1). There are several reasons for this decision: the term is laden with meanings acquired over 100 years of research that create the illusion of a distinct and homogeneous culture across the island which may mask our understanding of important variations in the archaeological record (Legarra Herrero 2009). Moreover, it implies a chronological distinction from neighbouring regions, one that we have not clearly established, while at the same time isolating the archaeology of this island academically, creating the impression that it is a world very different to other regions, set apart by a distinct and independent history.

Finally, there is a third particularity that has to do with chronology. Recent research has questioned whether the traditional separation between the Final Neolithic and Early Bronze makes any sense (Tomkins 2004). Many major changes that had already started at the end of the Neolithic continued into the EBA which renders the traditional terminology and the attached academic fault lines misleading. The chronological divisions are also problematic to understand the end of the EBA and the start of the Protopalatial period (Schoep 2012). The

awkward distinction between EM III, MM IA (Prepalatial) and MM IB (Protopalatial) of what otherwise seems like a common period of change is the best example of this problematic approach. On the other hand, it is impossible, given the wealth of data, that this review can do any justice to the Neolithic and Middle Bronze Age. It will, therefore, mainly focus on the EBA, establishing the connections with earlier and later periods when pertinent.

New excavations and new information from old excavations (Map 1)

Funerary

Two major cemeteries have dominated the studies along the north coast of Crete in the last ten years or so, namely **Sissi** (Crevecoeur *et al.* 2015; Schoep 2009; Schoep *et al.* 2011; Schoep *et al.* 2013) (**Fig. 2**) and **Petras** (Tsipopoulou 2010; 2012c; 2017b) (**Fig. 3**). They are remarkable not just because of their size and preservation but also because of the high standards of excavation, informative project websites and the quick publication of preliminary reports.¹

At Sissi, evidence of Prepalatial habitation has been found at the site (EM II and EM III/MMIA; Devolder 2012) (ID 260, ID775, ID1800, ID1912, ID5574, ID6048). At Petras, a small FN/EM I hamlet has been excavated and reported from nearby the cemetery (Papadatos 2012a; 2012b) (ID 1793, ID5521) and there is evidence for EM II habitation underneath the nearby Proto- and Neopalatial settlement (Tsipopoulou 1999). The two cemeteries are composed by several square tombs. Those at Sissi seem to have first been built in EM I/IIA and at Petras in EM IIA (Tsipopoulou 2017b: 72–3), although the main use of the two cemeteries dates from the late Prepalatial to the Protopalatial (Schoep et al. 2013; Tsipopoulou 2017b). Tombs in both sites included a rich assemblage of items (e.g. Ferrence et al. 2012; Giumlia-Mair et al. 2017; Krzyszkowska 2012) and architectural features (Betancourt 2012a) and were surrounded by open spaces in which rituals may have taken place (Tsipopoulou 2017a). The most valuable information comes from the detailed excavation and study of the burial deposits at the two sites which are already providing much needed information about number and sequence of interments, and the manipulation of human remains (Crevecoeur et al. 2015; Schoep et al. 2017; Triantaphyllou 2017; Triantaphyllou et al. 2017).

The recent publication of the cemeteries of **Pseira** and **Hagia Photia** in the north coast has provided more limited information due to their poor preservation. At **Pseira** (Betancourt and Davaras 2002; 2003) (**ID 1796**), 19 small tombs were reported ranging from cists to square built ones. They generally contained little material (Betancourt 2011). The **Hagia Photia** cemetery is more remarkable: it includes hundreds of chamber and cist tombs typical of the Cyclades and contains mainly Cycladic-style pottery (Davaras and Betancourt 2004; 2012) made locally on Crete (Day *et al.* 1998). The cemetery is at the centre of discussions about the relationship between the Cyclades and Crete during the EM I and early EM II period (see below). The, as yet unpublished, cemetery at **Gournes** (Galanaki 2006; Galanaki

¹ <u>https://sarpedon.be/</u> (Sissi) and <u>https://www.petras-excavations.gr/</u> (Petras).

et al. 2011) (**ID 194**, **ID 2830**)shares many traits with **Hagia Photia** and will provide new data about the phenomenon of Cycladic-style cemeteries on Crete. Finally, new excavations have been conducted at **Mochlos** (**ID 1909**), with several new tombs discovered (Soles 2012: 197) in the previously excavated cemetery. There are also reports of FN-EM I burials underneath Late Bronze Age remains in **Kephali Sphendyli** (Bennet 2012) (**ID 2786**) (**FIG. 4**)near Chersonissos.

The study of tholos tombs has not slowed down either, spearheaded by publication of the cemeteries at **Moni Odigitria** (Vasilakis and Branigan 2010), Tholos Gamma at **Archanes Phourni** (Papadatos 2005), **Livari** (Papadatos and Sofianou 2015) (**ID 762, ID 763, ID 1785, ID 2809, ID 3576**) and the ongoing study of the **Koumasa** cemetery (Boness and Goren 2017; Panagiotopoulos 2012; 2013; 2014; 2015; 2016) (**ID 3409, ID 4436, ID 5438, ID 5439, ID 6538, ID 6539, ID 6808**) (**Figs. 5 and 6**). The Livari tholos together with that excavated at **Messorachi (ID 2802)** near Sitia is challenging our association of tholos tombs with south central Crete (Papadatos and Sofianou 2012), particularly as their construction in EM I is roughly contemporaneous with that of many of the Mesara tombs (Legarra Herrero 2014a). The research in tholos tombs is also being advanced through the re-study of previous excavations. This is the case of the aforementioned Koumasa cemetery, Apesokari A (Flouda 2013), Apesokari B (Vavouranakis 2012; Vavouranakis and Bourbou 2015), Hagia Triada A (Cultraro 2004; Todaro 2004), Kamilari (Girella 2012; 2013; 2018) and Krasi (Galli 2014). Researchers have shown that fresh information can be extracted from the re-study of the material from the old excavations kept in the Cretan museums.

One of the main contributions of the new publications is the fresh information on human remains. The publication of Tholos Gamma at Archanes Phourni was one of the first to include a study of human remains (Triantaphyllou 2005) and opened the way for what it has now become standard practice in the publication of tholos tombs (Triantaphyllou 2009; 2010; Vavouranakis and Bourbou 2015). Micro-stratigraphic data from the new excavations at the Koumasa tholos tombs presents complementary information to understand the history of use and episodes of clearing in the communal tombs (Boness and Goren 2017). One can only hope that more of such type of analysis will be conducted in the future. It is also worth mentioning recent work in the analysis of tholos tomb location, particularly in how they structure movement and facilitate interaction across communities in south central Crete (Déderix 2016; Déderix and Sarris 2019; Paliou and Bevan 2016).

Beyond the data from the north coast and tholos tombs, little new information is coming from other regions which is mainly explained by the regional bias of our research history. Recent publication of the two rectangular tombs in the outskirts of **Zakros** (Platon 2017; Platon and Tsiboukaki 2017) (**ID 171, ID 252, ID 756, ID 1806, ID 1874, ID 209**) serves as a strong reminder of the remarkable EBA funerary record in other parts of the island.

Non-Funerary

New non-burial EBA sites are rare and most of the evidence comes from settlements best known in later periods. There are exceptions such as the small EM I sites at **Kephali Afroditi** (Betancourt 2013) (**ID 764**), a peculiar small walled site that does not seem to have a domestic use (**Fig. 7**), and the FN-EM I settlement at **Petras Kephala** (Papadatos 2008; 2012a; 2012b) near the Prepalatial cemetery. The rock shelter at **Alatzomouri** is one of the few closed EM III deposits known on Crete and it is proving crucial for the better understanding of the period's ceramic sequence, although the nature of the site is difficult to define (Apostolakou *et al.* 2017). More material has come from multiperiod excavations such as those at **Pryniatikos Pyrgos** (Molloy *et al.* 2014; Pavlacky 2019) (**ID 773, ID 2003**), **Gournia** (Watrous *et al.* 2015) (**ID 1910, ID 2860, ID 4551**), **Chania** (Evely 2010: 195) (**ID 1851, ID 2834, ID 2838, ID 3585, ID 4520**) (**Fig. 8**) and **Sissi** (Devolder 2012).

Work in EBA **Knossos** has continued with the publication of several EBA deposits underneath and around the palace (Wilson 2010; Hood and Cadogan 2011) and the revision of the ceramic sequence (Momigliano 2007; Wilson 2007). The new data is informing the debate about the EM development of the site (more below). The evidence for EM I-II use of the nearby harbour of **Poros** has been reported only preliminarily. These reports contain useful information about production and off-island exchange (Dimopoulou-Rethemiotaki *et al.* 2007; Doonan *et al.* 2007; Wilson *et al.* 2008) (**ID 3651**).

At **Phaistos** and **Hagia Triada**, new and old data are being combined in a comprehensive restudy of these sites, including their EBA use (Todaro 2005; 2009; 2010; 2012). Shaw's revision of the early architectural features of certain Cretan sites, particularly **Vasiliki**, is also providing precious new information from old excavations (Shaw 2016; 2017).

The popularity of intensive survey on Crete has not decreased in the last few years (Fig. 9). Surveys in the areas of Vrokastro (Hayden 2003; 2004; 2005), Gournia (Watrous 2012) (ID 766, ID 1783) and Kavousi (Haggis 2005) in the Mirabello area have provided us with a comprehensive understanding of the region to complement the excavations conducted in the area (e.g. Pryniatikos Pyrgos, Alotzomouri, Pseira, Gournia). The *Knossos Urban Landscape Project* is also providing new information about the size and development of the EBA settlement at this key site (Legarra Herrero 2019) (Fig. 10) (ID 199, ID 263, ID 783, ID 1811, ID 1920, ID 2815, ID 2900) . In central Crete, the survey of the region of Galatas has been recently published (Watrous *et al.* 2017). In south central Crete, the west Mesara survey (Watrous *et al.* 2004) has been complemented by smaller, but more focused, surveys on the EBA period at Moni Odigitria (Vasilakis and Branigan 2010) (Fig. 11) and the Trypiti area (Vasilakis and Sbonias 2018) (Fig. 12). These surveys are providing a much-needed update on the relationship between tholos tombs and human settlement to add to the existing information about burial groups as we now know them thanks to the recent studies on human remains.

Publications

The number of publications regarding EBA Crete in the last 15 years means that there are too many to include in this review. Some works, however, are worth mentioning for their impact on the field and also for opening new trends in the study of the period.

Monographs focused on the study of EBA Crete are rare. Since the work of Branigan (Branigan 1988) and Watrous (Watrous 1994; 2001) no overall overview of the period has been provided although a couple of good introductions have appeared in the form of book chapters (Manning 2008; Wilson 2008). The recent publication of a comprehensive monograph on the study of Early and Middle Bronze Age tombs reviews much of the data for the Prepalatial and presents a detailed catalogue of known burial sites (Legarra Herrero 2014a). Otherwise, monographs on the period are scarce and normally more limited in scope, such as Anderson's (2016) study of the MM I 'Parading Lion' seals.

The most influential publications have come in the shape of edited volumes. In 2004, a book to commemorate Renfrew's (1972) *Emergence of Civilisation* included several articles that have since become extremely influential (Bevan 2004; Cherry 2004; Renfrew 2004; Schoep and Knappett 2004; Tomkins 2004; Whitelaw 2004a). Eight years later, a book edited by Schoep, Driessen and Tomkins had a similar impact and included a whole new range of approaches to conceptualise the period (Driessen 2012b; Legarra Herrero 2012; Relaki 2012; Schoep 2012; Schoep and Tomkins 2012; Todaro 2012; Tomkins 2012; Whitelaw 2012b).

Last year, the publication of a festschrift in honour of Professor Keith Branigan included several papers that present theoretical approaches to the EBA (Driessen 2018; Schoep 2018; Tomkins 2018; Whitelaw 2018). Some of this work is part of the continued theoretical interest in urbanism and political economy (Bevan 2010; Whitelaw 2012b; 2017), but there are also indications of new research trends (e.g. Hamilakis 2018). The recent volume publishing the research of several young academics on the Aegean also provides a good insight into new themes and approaches (Karacic 2015; Déderix 2016; Mina 2016; Soar 2016). In particular ideas of embodiment, performance and ritual practice are becoming increasingly popular (Todaro 2012; Hamilakis 2014; Soar 2014; Legarra Herrero 2016a; Tomkins 2018).

Academia and the nature of research

We have already mentioned the ongoing trend of revisiting old excavations in order to learn new information. As research excavations become more expensive with added logistical complexities, surveys and smaller projects revisiting the wealth of material in museums are becoming more common. Recent exceptions are the excavations at **Prinitatikos Pyrgos** (Hayden *et al.* 2007; Molloy *et al.* 2014), **Petras** (Tsipopoulou 2012a; 2017b) and **Sissi** (Driessen 2009; 2012a; Driessen *et al.* 2009) which all had explicit EBA interests in their design. Unfortunately, there seems to be few new projects of this kind on the horizon and most new material is coming from rescue excavations such as **Kephali Sphendyli** (Bennet 2012) or **Livari** (Papadatos and Sofianou 2015) that have limitations in terms of resources and design. Such changes in data acquisition could have a deep impact on the way EBA studies will shape in the next decades. In terms of analytical approaches, the last few years of the Cretan EBA have been a mixed bag. There have been major developments, particularly in the excavation and study of human remains (see above and reviews in Girella and Todaro 2016; Legarra Herrero 2018a; Triantaphyllou 2018). Work on ceramic assemblages at Knossos (Momigliano 2007; Wilson 2007; 2008; 2010) and Phaistos (Todaro 2009; 2010; 2012), but also other areas in the east (Apostolakou *et al.* 2017; Betancourt 2010; 2012b; Betancourt 2013; Davaras and Betancourt 2012; Day 2014; Tsipopoulou 2012b) has also been quite dynamic, moving away from typological approaches towards more technological studies that explicitly investigate the relationship between production, consumption choices and social practices.

To a lesser extent, such interest in technology has been also applied to other materials such as obsidian (Carter 2003; D'Annibale 2008; Dierckx 2012), stone vessels (Bevan 2007; Morero and Prévalet 2015; Relaki and Tsoraki 2017) and goldwork (Colburn 2011; Hickman 2011; 2012; Legarra Herrero 2014b; 2018b). Progress is, however, patchy and there are many areas that have seen limited development. A promising set of studies in bronze and silver metallurgy during the 2000s (Betancourt and Muhly 2007; Catapotis *et al.* 2011; Clinton *et al.* 2009; Dimopoulou 2012; Galanaki *et al.* 2011; Muhly 2008; Papadatos 2007; Tselios 2008) led by the publication of the metallurgical workshop at Chrysokamino (Betancourt 2006; 2007; 2008; Catapotis and Bassiakos 2007; Catapotis *et al.* 2008) seems to have slowed down. There have been few new scientific studies recently. Studies of stone tools, archaeobotany, and archaeozoology (Livarda and Kotzamani 2014) are rare even in excavation reports (Isaakidou 2017a; 2017b; Isaakidou *et al.* 2011; Margaritis 2017; Molloy *et al.* 2014; Tsoraki 2012; Veropoulidou 2012; Watrous *et al.* 2015) and virtually unknown from funerary contexts.

Isotopic analysis and DNA are rapidly becoming central in the discipline of archaeology but they have a very limited development in EBA Crete. Isotopic analysis of EBA tombs have only started to appear in the literature (Triantaphyllou *et al.* 2015) despite their potential to answer many questions about the make-up of the tombs, origin of those interred and differences in diet – all major questions in the study of the Cretan burial record. DNA has been sampled from a couple of EBA contexts but these have been published as part of a kind of chronologically-vague and low-resolution analysis (Lazaridis *et al.* 2017) that has received much criticism lately (e.g. Booth 2019; see also Vander Linden 2016). The rich EBA burial record would provide a useful basis for highly innovative DNA and isotopic analysis about relations between the deceased and comparisons of the demographic composition between tombs and cemeteries. At the moment, the potential of such approaches is unfulfilled and barely on the academic radar of EBA Crete (Triantaphyllou *et al.* 2015).

A particularly crippling problem is the lack of an absolute chronology for the period under consideration (Manning 2017; 2018). Despite major developments in Bayesian approaches to chronology and their successful application to communal burials elsewhere, there is a distinct lack of radiocarbon or other types of scientific dating on the island. Manning's recent article is only able to model a few radiocarbon samples taken more than 40 years ago. This uncertainty presents major problems in understanding periods such as the EM IIB / EM III gap (Brogan 2013) and its link with the major 2200 BC climatic event; or to determine

the lengths of key periods such as the MM IA and MM IB (Manning 2017). These can fluctuate in the literature between 75 and 150 years, which has a major impact on the way in which we characterise the major cultural changes that happened on the island at this point. The recent revision of the Near Eastern chronology at the beginning of the 2nd millennium BC (Höflmayer 2017; 2018; Manning 2017) has important repercussions for the study of the first links between the east Mediterranean and Crete. This development makes the need for chronological analyses more evident.

The study of EBA Crete is noticeably behind in several key scientific areas which presents obstacles in the connection of the archaeology of the island with wider academia. The impact can already be felt as Crete, despite its crucial place in the understanding of European prehistory, is being excluded from innovative large-scale projects.² This not only has major consequences in terms of lost funding opportunities but more importantly it diminishes the general relevance of Cretan archaeology, making it less attractive to academics and students.

More encouraging is the recent work on the study of early script on Crete, which although it only touches the end of the EBA, is providing much needed new insights in how script might have developed on the island early in the 2nd millennium BC (Decorte 2018a; 2018b; see also Ferrara and Jasink 2017; Militello 2017). Such new impetus clearly has synergies with the strong research body of sphragistic and glyptic research on Pre- and Protopalatial Crete (Anastasiadou 2016; Anderson 2016; Krzyszkowska 2012; 2017; Panagiotopoulos 2014; 2015; 2016; Relaki 2010; Sbonias 2010; 2012). One of the main strengths of this new research is that it is explicitly comparative with the invention of script in other parts of the world.

Major themes and discussions

The varied and rich record of the EBA provides much food for thought in a variety of fields, but there are two fields in particular that tend to dominate the literature: processes of socio-political complexity and cultural interaction.

Since the publication of *The Emergence of Civilisation* (Renfrew 1972), the appearance of complex societies on Crete has been central to understanding the EBA period. The 3rd millennium BC was understood as a gradual climb towards state organisation (Branigan 1988). The 2004 edited volume is a reminder of how influential the 1972 publication has been and the ongoing struggle with the neo-evolutionary paradigm that it established (Barrett and Damilati 2004; Cherry 2004; Schoep and Knappett 2004; Whitelaw 2004a).

The debate about whether state formation was a process that already started early in the EBA or whether it is better understood as a rapid revolution that occurred at the end of the 2nd millennium BC has itself evolved but not disappeared. Recent work proposes early beginnings for socio-political processes leading to state formation, long before the

² E.g. see the conspicuous absence of Crete from Weiberg *et al.* 2019.

Protopalatial period. A number of authors have identified Knossos and Phaistos as special ceremonial sites from an early date, with a central role already in the Neolithic that would only keep developing over the EBA (Day and Wilson 2002; Driessen 2007; Schoep 2012; Todaro 2009; 2012; Tomkins 2012). Another group of authors find the evidence for the early stages on Knossos and Phaistos comparable with what we know from other EBA settlements on the island (Cherry 2010; Legarra Herrero 2014a; Whitelaw 2012b; 2017). These authors emphasise the major and rapid changes in settlement size at these sites at the end of the 2nd Millennium BC coinciding with a new wave of connections between Crete and the east Mediterranean.

To add further complexity to these debates, almost every component of the discussion has been under recent scrutiny. First, regional differences are starting to be acknowledged and the possibility of several histories for the island opens new areas of research in regionalism and the links between different scales of human experience (Legarra Herrero 2009; Pavlacky 2019; Relaki 2004; 2012). The EBA is no longer seen in terms of steady development, but as a non-linear and slightly chaotic period that includes crises, collapses and even relatively static periods (Legarra Herrero 2012; Whitelaw 2004a; 2012b). The role of elites, traditionally evoked as crucial for change, is being re-examined and new ideas of change based on collective action (Hamilakis 2002; Legarra Herrero 2016b; Schoep 2006; Schoep and Tomkins 2012; Vavouranakis 2017) and group identities (Driessen 2012b; 2016; 2018) are being put forward.

The study of inter-cultural contact between Crete and the rest of the Mediterranean is undergoing similar critical inspection. Much of the debate for the FN to EM IIA periods revolves around the relationship between Crete and the Aegean, based on an increasingly sophisticated understanding of cultural contacts, population movement and exchange of material culture (Betancourt 2009; Betancourt *et al.* 2016; Brogan 2013; Catapoti 2011; Doumas 2010; Karantzali 2008; Papadatos 2008; 2012a; Papadatos and Tomkins 2013; Stampolidis and Sotirakopoulou 2017). Ideas of Cycladic migrants are being substituted with more nuanced scenarios that include a range of cultural interactions, such as acculturation, immigration, adoption, resistance. It is increasingly clear that Crete did not just receive but also modified and adapted Aegean items to its own tastes (see e.g. Stampolidis and Sotirakopoulou 2017).

After the EM IIB period something changes and by the end of the EM III period the off-island connections moved to the east Mediterranean as Near Eastern and Egyptian items start appearing on Crete. Some authors see this shift as the proof of direct influence from the powerful states in the east Mediterranean (Warren 2005; Watrous 2005; Wiener 2013), but analysis of the material, production and consumption contexts provides a different picture (Bevan 2007; Cherry 2010; Galaty *et al.* 2010; Legarra Herrero 2011; Morero and Prévalet 2015; Phillips 2006; 2008). Crete seems to make decisions about how to engage with the wider world and deploys a range of strategies in what seems to be a multi-layered and flexible approach to adapting off-island influences to local social and cultural structures. In this respect, Cretan state formation may be better understood through the internal decisions made by Cretan communities (Legarra Herrero 2016c).

EBA Crete and the modern archaeological context

The themes described above connect with major debates in archaeology and with big questions about the human past. In the last few years, authors have tried to link Cretan state formation (Legarra Herrero 2016c; Parkinson and Galaty 2007) and early urbanism (Whitelaw 2012a; 2017) with wider debates in these topics through publications in international forums. As more importance is given to the large-scale in order to explain the past, more comparisons between Crete, the Aegean and the Mediterranean are starting to appear (Broodbank 2013; Legarra Herrero 2016b; Manning 2018; Weiberg 2017; Whitelaw 2017). These efforts are crucial for the future of the discipline. Archaeological research focussing on smaller regional questions and debates is becoming more difficult to fund and more support is given to larger projects that tackle big questions. EBA Crete needs to come out of its shell and establish its key importance in any such analysis.

Conclusions

The wealth of high-quality data gathered over the last 15 years, along with the comprehensive datasets that have been built for more than a century, bodes well for an exciting future. The challenge will be to convert this critical mass of information into methodologically and theoretically innovative studies that explicitly explore high-impact questions about mobility, cultural interaction and socio-economic organisation. The next 15 years will see not only new approaches being developed on Crete but also more Cretan data and analyses featuring prominently in wider archaeological discussions.

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Map 1: Early Bronze Age sites mentioned in the article. Add sites that you want to see on the map – sites should appear in geographical order; as per Andrew's comment above – we need an excel table with the sites and their coordinates (referenced in Google Earth) to prepare the map.

Figures
Figure 1: Add captions + Source
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