

Gotland's Picture Stones

Bearers of an Enigmatic Legacy

GOTLAND'S PICTURE STONES have long evoked people's fascination, whether this has been prompted by an interest in life in Scandinavia in the first millennium or an appreciation of the beauty of the stones. The Gotlandic picture stones offer glimpses into an enigmatic world, plentifully endowed with imagery, but they also arouse our curiosity. What was the purpose and significance of the picture stones in the world of their creators, and what underlying messages nestle beneath their imagery and broader context? As a step towards elucidating some of the points at issue and gaining an insight into current research, the Runic Research Group at the Swedish National Heritage Board, in cooperation with Gotland Museum, arranged an international interdisciplinary symposium in 2011, the first symposium ever to focus exclusively on Gotland's picture stones. The articles presented in this publication are based on the lectures delivered at that symposium.

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Picture Stone Workshops and Handicraft Traditions

AN OLD QUESTION within picture stone research is whether the production of picture stones was carried out within different associations of carvers, linked to different schools and workshops.¹ I imagine a workshop as being a style-wise closely connected, social and economic unity with a master surrounded by apprentices. The workshop may have some kind of fixed home base, but would also be itinerant, occasionally even changing the location of its home base. When I say 'school', I mean a fraternity or circle of merely loosely associated carvers, who share the same stylistic features and/or motifs. The master of the workshop may adopt styles which will generate a model, which will eventually lead to a new school, where his apprentices in their turn will establish workshops and pass on the craftsmanship and wealth of treasure, etc. Thus, a school may comprise several workshops.² As regards other forms of artistic expression, apart from picture stones, there is within archaeology an extensive discussion concerning Viking Period handicraft and workshops: were the artisans itinerant or settled, what was their status, did trading and craft guilds exist, etc.³ Would it be feasible to draw parallels between the production of picture stones and other contemporaneous craftwork?

In a research project conducted between 2006-2008, the carved image surfaces of 68 Gotlandic picture stones, as well as picture stone fragments, with an even distribution from Lindqvist's Groups A-E, were scanned with a portable optical 3D scanner.⁴ The result of the 3D-scanning was a three-dimensional digital model of an image surface with high resolution, in this case 0.27 mm, which reproduced the structure of the surface with its dressing and cutting lines (fig. 1). Documentation using



Detail of the ARDRE CIST (G 114). Optical 3D-scanning with an 0.27 mm resolution between the measuring points. 3D-model by the author.

3D-scanning is gradually becoming widespread within archaeology. It takes analysis one step further, making use of the technique to analyse cutting techniques and use of templates as a means of distinguishing between handicraft groups and handicraft traditions. In this article, I will give examples of how 3D-scanning can help us to identify carver groups and picture stone workshops.

Documentation Using Optical 3D-Scanning

The attributes, i.e. objects and accessories in the motif, play a vital role in the interpretation of the picture stones. They provide the key to the pictures on the stones, and show how these can be linked to myths and legends in the



Optical 3D-scanning of the picture stone BROSTENEN in Gotland museum's storeroom.
3D-model by the author.

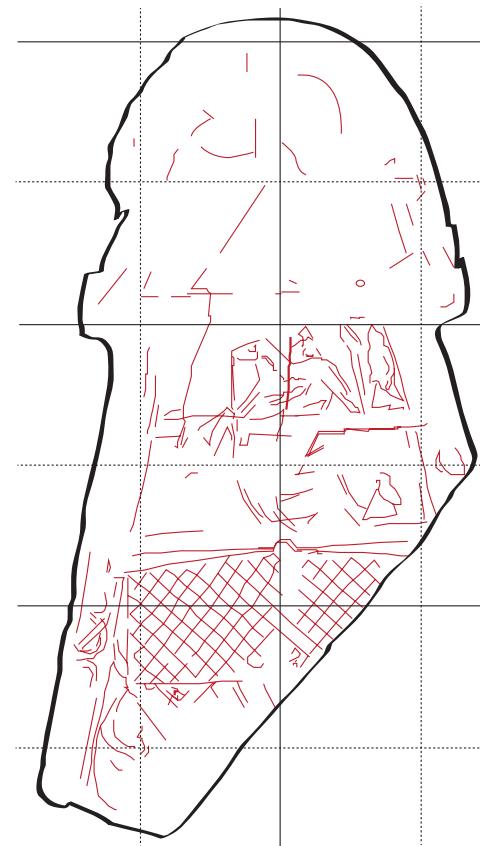
Norse pictorial world, as we know it, mainly from the Icelandic sagas and from motifs on metal objects, textiles, etc. Unfortunately, these picture stones are often in poor condition, the carved relief and incised lines are ill-defined and the motif may be scuffed or damaged. New analyses generally lead to new or reinterpretations of motifs which are of significance for iconographic studies.⁵ It can be seen from literary sources on picture stones that interpretations vary considerably, depending on which details the interpreter has seen and attached importance to.⁶

Traditional methods used by picture stone scholars to highlight the motifs on the often decomposed or damaged image surfaces have included side lighting and two dimensional photographic methods. Making casts using latex⁷ and frottage (rubbing)⁸ have also been used as aids. In enigmatic cases, new details tend to emerge following virtually every new thorough examination, depending on method and lighting.

In Sune Lindqvist's classical *Gotlands Bildsteine* from 1941-42, the motifs on many of the picture stones have been highlighted with paint. Lindqvist explained that he had tried to avoid chalk or paint, but found it difficult to achieve distinct photographs, so he used the same method as had been used on runestones, namely

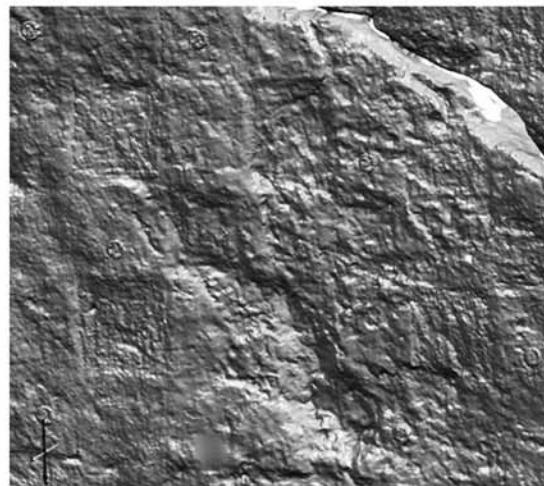
to paint contours and surfaces with water-soluble coloured pigment.⁹ It should be emphasized that Lindqvist was also very much aware of the fact that highlighting motifs on enigmatic stones with paint meant that he had actually produced a form of reconstruction.¹⁰ Therefore, he often also took photographs of the stones with a side light, prior to painting, whereby many details in the carving were projected. This technique may have been inspired by Erik Moltke, who had developed methods for recording runestones, using photography, in the 1930s. Lindqvist might also have used the same coloured pigment – carbon black (which is based on soot). Moltke meant that there were advantages to be gained from photographing the runestones both before and after painting – the former to highlight details, the latter to gain an overall view.¹¹ The photographs of the painted stones can thus be seen as useful for assessment and orientation.

Awareness of the significance of details, and of the fact that painting might conceal details that could block interpretations, has altered the modern view of how to treat picture stones. Whenever a limestone monument is painted, the coloured pigment actually soaks into the material. This is an irreversible action, which eliminates the possibility of analysis of any possible prehistoric traces of colour, as well as obstructing alternative deciphering and pictorial interpretations. Painting limestone monuments is definitely not recommended these days, it can actually be considered presumptuous that one single scholar's interpretation could influence a later observer's perceptions of a picture stone. A far superior alternative is for newly-discovered carved surfaces to be recorded using an optical 3D scanner, the interpretations being presented for example in a picture or copy or by a light show projecting images on the picture-stone photocomposition.¹² Only a few laboratory analyses have been made on Gotlandic picture stones, meaning that the greatest care should be taken in the event of new discoveries, where chances are greatest of finding and analyzing traces of original colour.



Interpretation of the picture stone BROSTENEN (Gotland Museum Inv.no. C21905 discovered in connection with cable trench digging) after 3D-scanning.

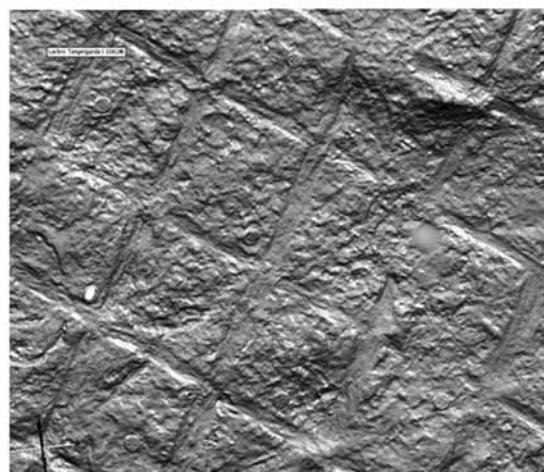
One example of 3D-scanning, which has produced good results, is the picture stone BROSTENEN, discovered in connection with cable trench digging in 2001. The first record was based on side light examination.¹³ In 2007, the stone was subjected to 3D-scanning which resulted in the discovery of several other motifs on the carved image surface, including a formerly overlooked horserider. We can now draw the conclusion that the BROSTENEN stone is of the same type as the picture stone LÄRBRO STORA HAMMARS I (see bild s. 19).



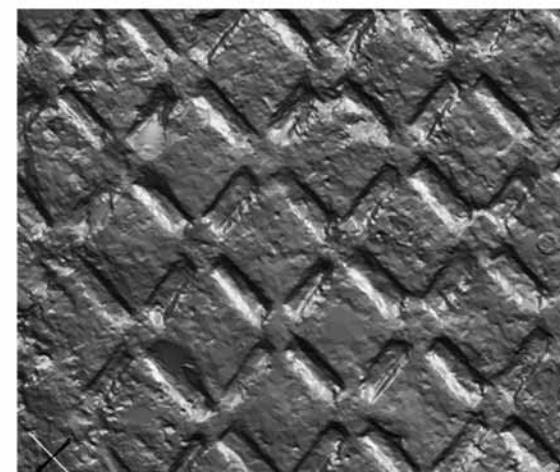
GARDE BOTÄ



NÄR SMISS I



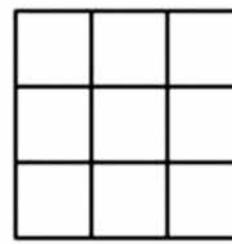
LÄRBRO TÄNGELGÅRDA I



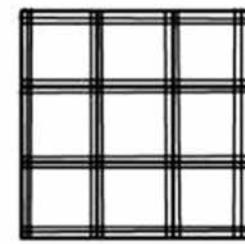
ALSKOG TJÄNGVIDE I



1



2



3



4

Cutting Techniques in Picture Stone Ships

One subject of extensive discussion has been whether the picture stones illustrate real-life motifs, which can be used to understand facts about the material culture, or if the motifs are to be largely understood as mythological. The ship is widely known as the most common and most dominating motif on the Gotlandic picture stones, and has above all been the all-important subject of research within maritime culture. Some mean that they are mythological ships, while others claim that they are real-life depictions.¹⁴ The sail of the picture stone ship, for example, bears a regular checked pattern, which has led to a tentative suggestion that the sail has been made of plaited lengths of woven fabric.¹⁵ Some depictions seem to be more schematic than others, such as the uniform lozenges of the ARDRE KYRKA VIII and ALSKOG TJÄNGVIDE I stones, compared to the more billowing and slightly rounded carvings on the KLINTE HUNNINGE I stone. The debate of whether the ships are mythological or realistic will be left here, with the comment that even a realistic depiction can be of a mythological ship, and that the motif has been produced in a number of different ways.

I have studied the cutting technique in the sail on 13 picture stones.¹⁶ At first glance there would seem to be as many variations as number of picture stone ships, but if we disregard the size and shape of the sail, we can see that the carver has chosen between different methods for highlighting the lozenges. The lozenges may be outlined with shallow cutting lines or with emphatic carvings; the sense of reality varies, depending on the different techniques employed.

Cutting techniques in picture stone sails. Example (above) and schematic pictures of different variants in craftsmanship (below). Photo and illustrations by the author.

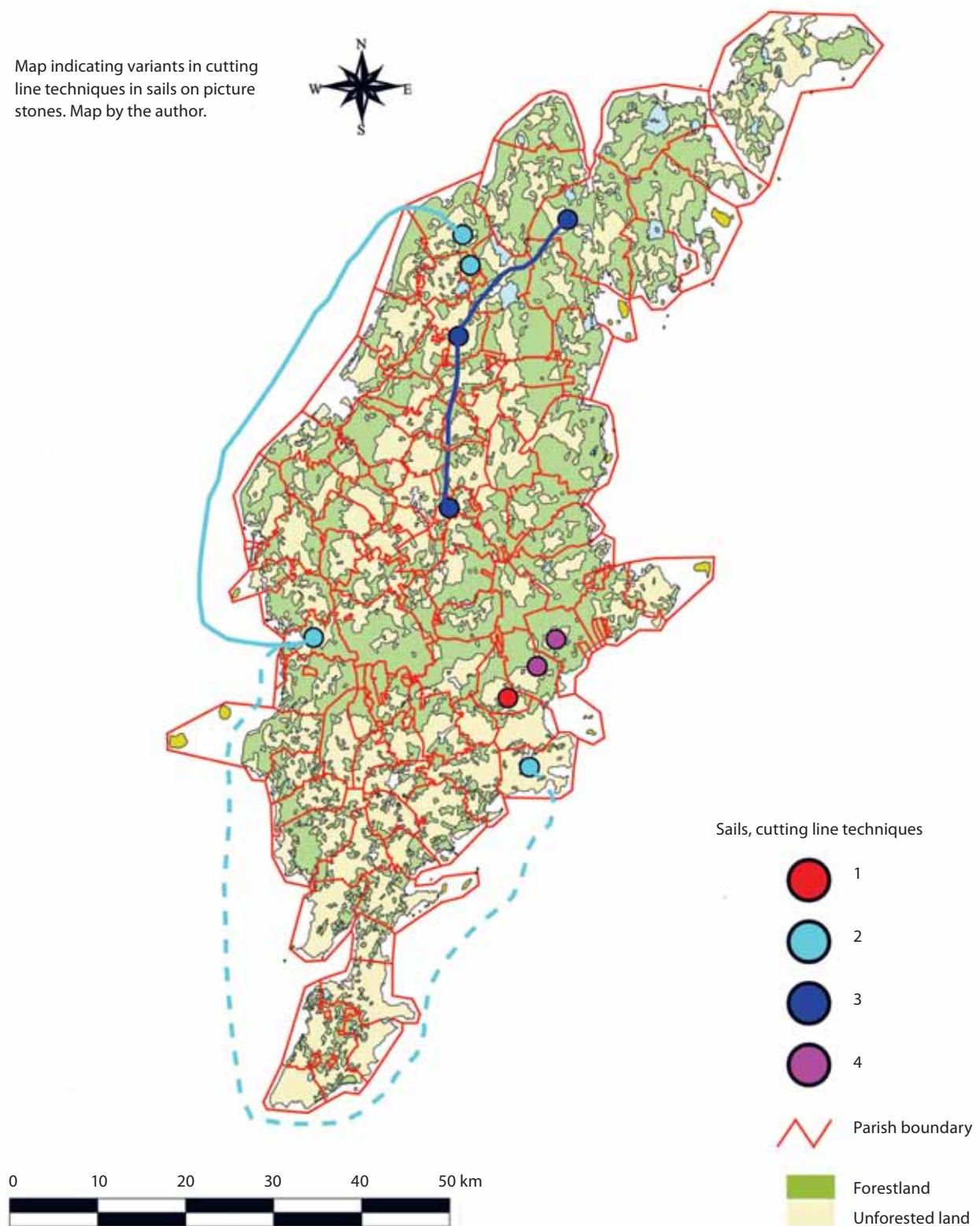
The methods for highlighting the lozenges fall into four main variants (see facing page):

1. Shading, i.e. striation in every alternate lozenge.
No lines. E.g. GARDE BOTA.
2. Shallow incisions, no more than a marked groove base. E.g. KLINTE HUNNINGE I, STENKYRKA LILLBJÄRS III. Poss. STENKYRKA LILLBJÄRS XVII, STENKYRKA SMISS I, NÄR SMISS I, SHM Inv.no. 45110:I (location unknown).
3. Broad carvings, parallel cutting lines appear in the groove base. E.g. HALLA BROA IV, LÄRBRO TÄNGELGÅRDA I, LÄRBRO TÄNGELGÅRDA III, LOKRUME II.
4. Deeply-cut lines accentuate rectangular panels.
E.g. ALSKOG TJÄNGVIDE I, ARDRE KYRKA VIII.

Strictly speaking, this classification is not an analysis which directly singles out individuals or cutting techniques tied to any one workshop, but the discussion should rather focus on to what extent different carver groups have expressed different preferences and to what degree they have adhered to them. More evidence is needed, to be in a position to determine which cutting techniques belong to which individual workshop or carver.

When plotted on a map (fig. 5) we note that the examples of the relatively advanced techniques (1) and (4) are situated in close proximity on the east coast of Gotland. The simpler workmanship (2) can be found in two parishes on the west coast. Method (3) occurs in two parishes lacking direct contact with the sea, as well as one parish by a sea bay. One possible interpretation would be that this indicates interrelationships between the stone carvers along each coast respectively, while method (3) indicates connections between inland parishes. During the Viking Period, however, even the innermost parts of Gotland were accessible and navigable by boat via a series of waterways that were drained off later on in history. As indicated on the map, analysis of material in the parishes in between is lacking. Interpretations must thus be highly hypothetical and can

Map indicating variants in cutting line techniques in sails on picture stones. Map by the author.



only be regarded as submitted suggestions, with a high risk of over-interpretation. The selection made for analysis was based on the hypothesis that differences would emerge between the north and south of Gotland, but in a comparison of cutting techniques it might have been more fruitful to compare the west coast with the inland. If we compare this result with Lindqvist's hypothesis regarding a northern and southern school¹⁷, we can conclude that the evidence of craftsmanship tends to point towards a distinction between coastland and inland, or rather eastern and western Gotland. I must once again emphasize that this hypothesis needs to be supported by additional material. Meanwhile, this may be regarded as a possible means of systematizing our observations, enabling us to discern more extensive networks on an artisanal level. If we study the cutting techniques we can look beyond the mere fact that a carver can create picture stone ships of different types and sizes, according to the customer's liking and tastes.

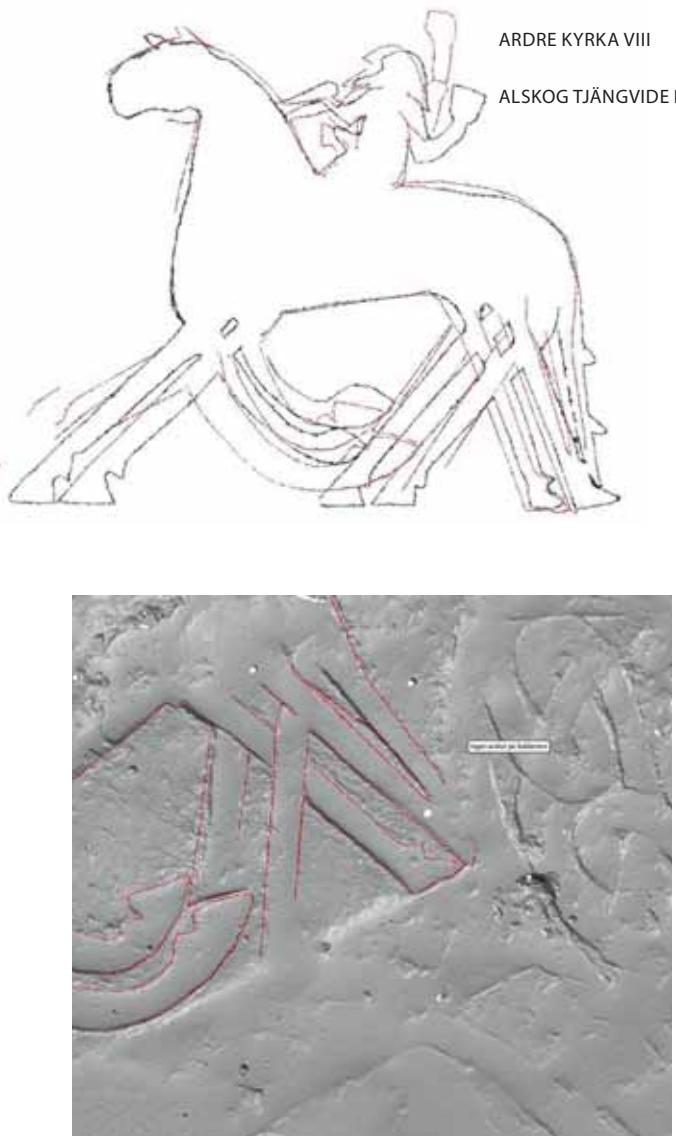
The Use of Templates on Picture Stones

Another approach to studying the occurrence of picture stone workshops is to analyze if and in what way the stone carver has used templates or patterns. If the same template has been used on several picture stones, it is quite likely that it is either the same stone carver who has used them, or that a group of carvers have shared a common set of tools. Template studies have already been carried out on stone sculptures in Great Britain, e.g. on Anglo Saxon stone crosses, with interesting results.¹⁸ Templates have been used for figures and parts of figures, in order to produce mirror images or adapt their size. They have also been divisible into sections. When the same template has been used in different locations, this has been interpreted as a sign of a central workshop, or an itinerant stone carver; in each case the stone sculptures may be contemporaneous within the time span of one generation.¹⁹

18 picture stones from Lindqvist's Groups C and D, dating from appr. 750 to 1 000 A.D.²⁰ and distributed across the entire island, have been examined. Templates seem to have been used on all of them. Whether the occurrence of the same template on different picture stones should be interpreted as an indicator of a group of stone carvers or of a workshop would depend on how the templates would seem to have been used.

The motifs have been filled in and isolated in the digital 3D models, after which concordance has been checked by superimposition. The question remains, how can we determine if these figures have been filled in according to templates and not just happened to be similar despite the fact that they were free-hand sketches? The criteria for template use in this study was that when the figures were superimposed, the outer contours would coincide, as would the fixed points for the extremities. I did, however, make certain allowances for differences in details within the outer contours. We must bear in mind that the templates were transferred to bulging stone surfaces, and that a template may have slipped when the contours were being filled in. Moreover, weathering and abrasion have added to the difficulties that even present day 3D models may encounter when filling in and isolating the motifs. Despite all this, they often display a surprisingly close match when superimposed. The templates have sometimes been transferred to the picture stone, despite lack of sufficient space, and figures seem to have been squeezed into cramped spaces, instead of being redrawn on a smaller scale.²¹

We shall now take a closer look at a Gotlandic example of template use. The ALSKOG TJÄNGVIDE I and ARDRE KYRKA VIII stones are so similar in composition that they have already been presumed to have been produced by the same stone carver, or emanate from the same workshop.²² If we begin by scrutinizing the horse on both picture stones, we note that the outer contours are congruent. Note especially the neck, the placing of the head, the hind-quarters, abdomen and breast. At first glance,



Superimposition of the horses on the ALSKOG TJÄNGVIDE I and ARDRE KYRKA VIII picture stones.

The horse on the ARDRE KYRKA VIII stone has been squeezed into too small a space. The hind legs and tail are at odds with the border panel. 3D-model and illustration by the author.

the rider would seem to fall outside the template pattern. The template, however, may have slipped while the stone carver was filling in the outer contours, so that the body of one of the riders ended up at a different angle to the horse. The riders' arms are of differing lengths and are differently angled. A partial explanation might be that they had become too thin and limp on the template, and thus needed to be sketched by free hand. On the ARDRE KYRKA VIII stone, the template for the horse has been squeezed into a space that is too small, and the hind legs are at odds with the interlaced border panel and the hooves seem to merge into the border pattern. It would seem that the horses on the two monuments were both transferred from the same template, although the placing seems to be perfunctory and the craftsmanship less skilled on the ARDRE KYRKA VIII stone. The transference of the template to ARDRE KYRKA VIII seems to indicate a slightly more indifferent attitude towards the motif. Had the horse been drawn by free hand, it would have been better adapted to the inadequate space.

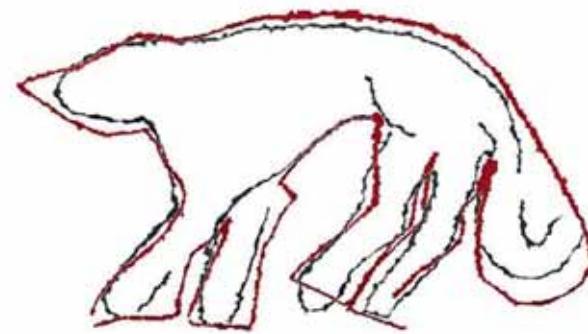
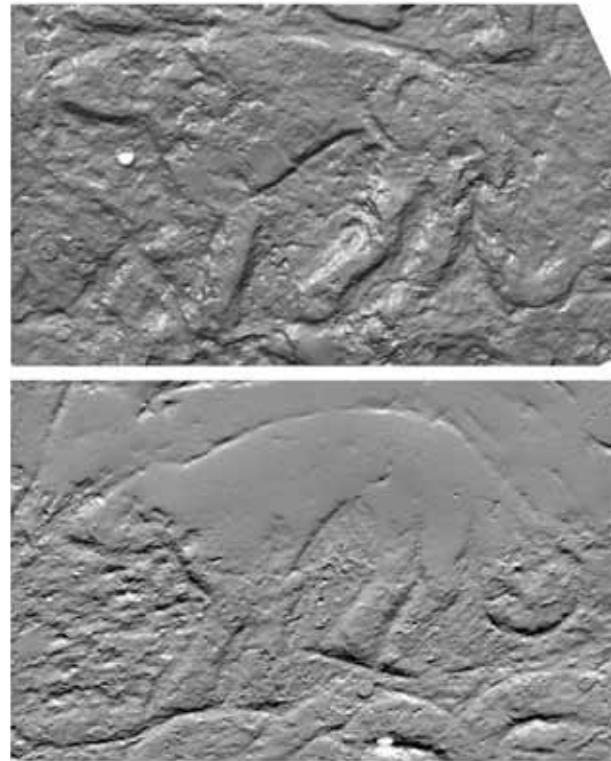
The canine-like animal should not be overlooked in this connection, since there are some interesting anomalies in the details, while the proportions of the body are concordant (fig. 8). The motif would seem to have been somewhat misunderstood on the ARDRE KYRKA VIII stone, in that the contours of the template have been followed, while the figure has not been corrected to tally with the carving of the details necessary to define the tail. It thus differs from the canine-like animal on the ALSKOG TJÄNGVIDE I stone, despite the fact that the same template was used for their outer contours. This is an example of use of the same template, coupled with a distinctive design.

Regarding the interlaced border panels, there are several different variations, and even here the same templates have been used on the ALSKOG TJÄNGVIDE I and the ARDRE KYRKA VIII stones. The overall picture is that the ALSKOG TJÄNGVIDE I and ARDRE KYRKA VIII picture stones have had a complete set of templates at their dispo-

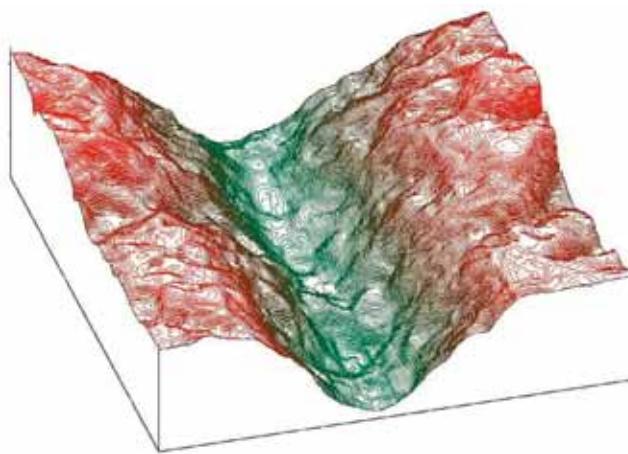
sition, five of which have been identified: horse, canine and three border panel decorations. As regards houses, the rolled-up prows of ships and the ship's crew, I cannot discern such distinct conformity.

There are numerous other examples, but these have been dealt with elsewhere.²³ The stone carvers would seem to have used the templates mainly to position the outer contours of the motifs, later filling in the details by free hand. A modern comparison would be our use of gingerbread cutters to create a uniform gingerbread man, which we then decorate with icing by free hand. The lack of details in the template may be due to its soft material. If the template is pliable, the details cannot be cut out, since the template would then fall apart. A harder template of several layers of leather glued together would be strong enough to enable the cutting out of smaller details and extremities. Templates could also be made of thin sheets of lead. Complete templates of leather, metal or fabric have been suggested, in the case of English stone sculptures.²⁴

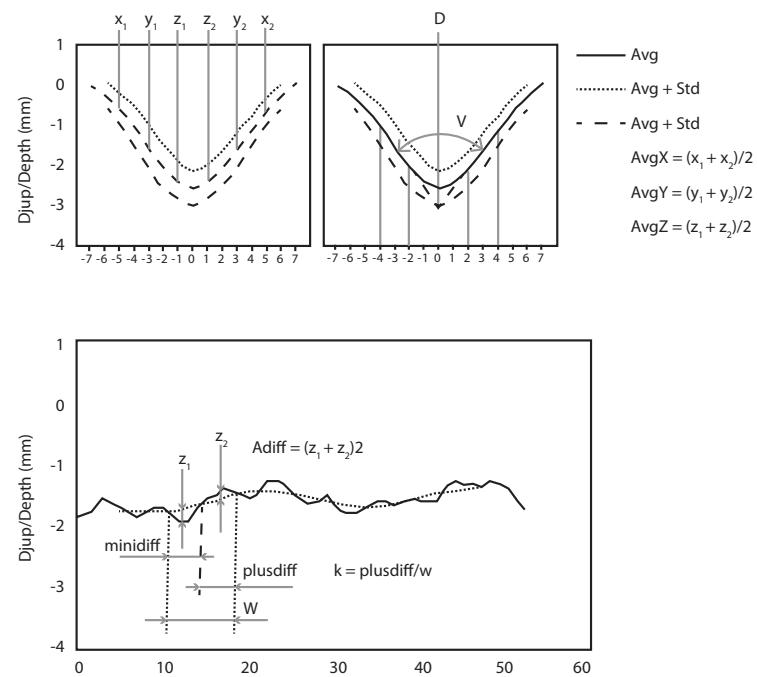
Can the use of templates tell us anything over and above the working methods of the individual stone carver? The creation of a design and the transference of a motif onto an object were actually two separate activities in some other craft connections, and it would thus seem to be a feasible argument for an increase in specialisation and professionalism within a certain craft.²⁵ One partially contemporaneous example is the tortoiseshell brooch, which could be cast in moulds which had been produced from existing jewellery. The bronze caster needed no more than a master model. Although craftsmanship was a prerequisite, he did not need to have artistic talents. As a result, some older designs may have had a long life, which complicates dating and provenance.²⁶ In the same way, somebody might have copied a motif on a picture stone and transferred it to another. One hypothetical possibility is that figures have been traced over to stone with the aid of fabric. If the figure is transferred to a fabric, the stone carver, by tapping on



The canines on the ALSKOG TJÄNGVIDE I and ARDRE KYRKA VIII stones have the same basic shape, but different designs in the details. On the ALSKOG TJÄNGVIDE I stone, the dog has a soft rounding of the nose and paws, while these are abruptly chopped off on the ARDRE KYRKA VIII stone. 3D-model and illustration by the author.



Variables for cut mark analysis of runestones.
The table top right shows variables in cross section with distance from the groove base in mm.
The table bottom right shows the characteristics in the longitudinal direction with distance along the groove bottom in mm. Graphic by the author.



the picture on the fabric, can create both the outer contours and inner details.

The use of templates leads us to the next question of whether the stone carvers have had some type of pattern book or set of patterns. The idea behind a pattern book is that motifs can be supplied to those who do not have access to the original. It would thus be more likely for an itinerant rather than a settled artisan to possess a pattern book.²⁷ Whoever created the pattern would have simplified the composition, focusing on certain details and almost certainly combining components of different originals. The people and animals in the pattern books were primarily intended to be portrayals of posture and actions.

Of greatest importance was to emphasize the outer contours, so that the units became distinct and comprehensible.²⁸ The templates could be combined in different ways, and the figures assume different characters, depending on which attribute they had been awarded.²⁹

Earlier research claimed that the interlace decoration on the Gotlandic picture stones may indicate influences from the British Isles.³⁰ In another article, I have discussed whether the use of templates for border panels might indicate an attempt to imitate insular Celtic ornamentation without mastering the geometrical principles behind it. My conclusion is that interlace decoration as a motif may have been influenced by Western Insular art style, but the carvers of the Gotlandic picture stones might have been more at home in a Continental craftwork tradition.³¹

The use of templates on picture stones is possibly more in tune with a society which was increasingly adopting these tools. Regarding fine metalwork, the Viking Period saw increased specialisation and organizational development, and the question of whether templates were a sign of mass production has been discussed.³² The question is whether this bears any relevance to stone

monuments, such as picture stones, which differ considerably from utility goods and jewellery. They are almost exclusively restricted to Gotland, which limits possibilities of a wider market. Even if finer metalwork and picture stone carving can appear to be completely different, the picture stones could still be part of the same development process, where tools such as templates began to be used to a greater degree than previously.

The abundant use of templates on Viking Period picture stones is in strong contrast to the earliest picture stone phase. A number of earlier picture stones from Lindqvist's Group A were examined in a student task on optical 3D-scanning, and the results were recorded in an M.A. dissertation by Anders Larsen. The 3D-scanning revealed that instruments such as compasses and rulers were used on the majority of the stones examined, whilst clear-cut evidence of templates is lacking.³³ This may reflect a progression in craftwork techniques from the earlier phase of picture stones during the Roman Period-Migration Period, to the later Viking Period phase.

Cut Mark Analysis

A third way to approach to the carver and workshops is analyzing the cutting techniques, using optical 3D-scanning and statistic data analysis. It is a method used within the research of runestones, which has been described in detail in another connection.³⁴ In short the method is based on mathematically selecting runes and sections of decoration from a number of variables from the digital 3D model. These variables describe the shape of the groove in cross-section and the sequence of impacts along the direction of carving at the base of the groove. This method is suitable for runic inscriptions and for decoration on the picture stones in Lindqvist's Group E, which are actually runestones with a traditional picture stone shape, dating from the 11th and early 12th centuries.³⁵ The picture stone from HOGRÄN KYRKA 1 is one example (see picture p. 21). A prerequisite for this method of working is that there are distinctly cut lines, known as incised grooves, it

does not work on relief carvings. On the other hand, it can be used for runic inscriptions on monuments which bear relief carvings. The method can pinpoint individual rune carvers, as well as regional differences and differences between carver groups. On the mainland, previous examinations have revealed that known names of carvers actually often comprise a group of several carvers with varying standards of craftsmanship.³⁶ The comparison of runestones on Gotland can be delimited to the island, so as to clarify the interrelationships between carver and carver groups. It is also possible to conduct a broader regional study, whereby the Gotlandic runestones can be compared with those on the central Swedish mainland, for example. If we presume that rune carvers were somehow connected to individual households, in the long run their constellations might turn out to mirror spheres of interest, administrative regions, common venues or some kind of social solidarity.

Summary

In this article, I have attempted to demonstrate how analysis using optical 3D-scanning can contribute to the discussion of Viking Period picture stone workshops on Gotland. 3D-scanning is a highly valuable method for the recording and analysis of the carved motifs, cutting techniques, the use of templates and cut mark analysis. The carved image surfaces of 67 Gotlandic picture stones and stone fragments, evenly distributed among Sune Lindqvist's Groups A-E, were 3D-scanned within a research project carried out between 2006 and 2008.

On 13 picture stones, the cutting technique in the picture stone sails was examined and classified. The cutting technique in the sail can be divided into four main groups, depending on how the lozenges in the sail were technically achieved. The different cutting techniques might well reflect contacts between carvers in the coast or inland parishes, alternatively between carvers in the east or west of Gotland. However, more evidence must be produced before any definite conclusions can be drawn.

The use of templates on 18 Viking Period picture stones has been examined. The templates have been used on all selected stones and the use of templates to transfer common motifs, such as horses, people and interlaced decoration, is geographically spread across the entire island. When the same equipment is used on several stones, this would seem to indicate a carver group or a workshop. The abundant use of templates on the Viking Period picture stones provides a distinct contrast with the earliest picture stone phase, where we contrarily find evidence of the use of compasses and rulers.

The third method presented is cut mark analysis, using optical 3D-scanning and statistic data analysis, a method which was earlier used on central Swedish runestones. It can be implemented on runic inscriptions and incised decoration. Cut mark analysis may be an indication of carver groups and carver networks.

Notes

1. Lindqvist 1941, p. 46, 49; Westphal 2004, p. 422; Eshleman 1983, pp. 300, 303, 306.
2. Kitzler Åhfeldt 2002, pp. 63–65 and quoted literature.
3. O'Meadhra 1987, pp. 166–169 and quoted literature; Thunmark-Nylén 2006, p. 422; Neif 2009, pp. 94–95, 2010, pp. 137–138; Gustafsson & Söderberg 2007, p. 100, 108.
4. The project *3D-scanning av Gotlands bildstenar*: Verkstäder, ikonografi och datering was carried out 2006–2008 at the Archaeological Research Laboratory (AFL) at the University of Stockholm with funding from the Anna Ahlström and Ellen Terserus foundation. An optical 3D-scanner ATOS II from GOM was used, financed by the Swedish Research Council. The results are available to the public via the Swedish National Heritage Board homepage 3D-data Gotlands bildstenar (<http://3ddata.raa.se/index.html>) by way of downloadable files in the STL-format (Kitzler Åhfeldt, Manuscript a).
5. Oehrl, S. 2009, pp. 544–546, 550 and his article in this volume.
6. A compilation of different interpretations of C och D stones has been made by Böttger-Niedenzu 1982.
7. Hauck 1977, pp. 13–14.
8. See drawing by Alexander och Helena Andreeff in Norderäng & Widerström 2004, p. 86 Picture 3 and Andreeff in this volume.
9. Lindqvist 1941, p. 13.
10. Lindqvist 1941, p. 15.
11. Moltke 1932, p. 338.
12. Cf Bjelland & Helberg 2006, p. 73; Hygen 2006, pp. 20–22, 27; also see Simonsson in this volume.
13. Norderäng & Widerström 2004, p. 87, Fig. 6.
14. Nylén 1982; 1987, pp. 75–84; Edberg 1993; Crumlin-Pedersen 1997, pp. 174–175; for a critical survey see Varenius 1992, pp. 51–54.
15. Nylén 1982, pp. 34–35, 40–41 Picture 3.
16. HALLA BROA IV, KLINTE HUNNINGE I, LÄRBRO TÄNGELGÅRDA I, LÄRBRO TÄNGELGÅRDA III, LOKRUME Kyrka, STENKyrka LILLBJÄRS III, STENKyrka LILLBJÄRS XVII, STENKyrka SMISS I, ALSKOG TJÄNGVIDE I, ARDRE Kyrka VIII, GARDA BOTE, NÄR SMISS I, SHM Inv.no. 45110:1. A more detailed account of the examination has been presented in Kitzler Åhfeldt, Manuscript b.
17. Lindqvist 1941, pp. 46, 49.
18. Adcock 1978, p. 33; Bailey 1978:180–185, 1980:246–253; Lang 1991:48, 2001:28, 45–47.
19. Bailey 1978, pp. 180–185; 1980, pp. 246–253.
20. Snædal 2002, p. 52; Imer 2004, p. 106.
21. Ex. the horse on ARDRE Kyrka VIII, interlacing on NÄR SMISS I.
22. Lindqvist 1941, p. 49; Christiansson 1952–67, p. 459; Lamm 2006, p. 8; Wilson 1995:64.
23. Kitzler Åhfeldt 2009.
24. O'Meadhra 1987, p. 126 and quoted literature; Bailey 1978:183, 1980:253.
25. O'Meadhra 1987, pp. 117–118; Blidmo 1976, p. 11.
26. Jansson 1981, pp. 6–7.
27. Scheller 1963, p. 7, 1995, p. 41.
28. Scheller 1995, pp. 41–42.
29. Scheller 1963, p. 14.
30. Lindqvist 1941, p. 135.
31. Kitzler Åhfeldt 2009, p. 149.
32. Thunmark-Nylén 1995a, pp. 118–119; Callmer 1995, pp. 65–66.
33. Larsen 2009, pp. 28–29.
34. The statistic analyses are described in Kitzler Åhfeldt 2002, but the equipment has been upgraded. Since 2005, an optical 3D-scanner ATOS II (GOM) has been used, with which the entire monument can be 3D-scanned, as well as new, specially designed software; the Groove Measure-function included in the software package DeskArtes Design Expert.
35. Snædal 2002, p. 100.
36. Kitzler Åhfeldt 2002, p. 73.

References

- Adcock, G., 1978. The theory of interlace and interlace types in Anglian sculpture. In Lang, J. T. (ed.), *Anglo-Saxon and Viking Age Sculpture and its Context. Papers from the Collingwood Symposium*. Oxford.
- Ahlberg, B., 1978. *Mälardalens bildstenar*. Graduate thesis in archaeology. Stockholm University.
- Allen, R A. & Anderson, J., 1903. *The Early Christian Monuments of Scotland*. Edinburgh.
- Almqvist, B., 1978–81. Scandinavian and Celtic Folklore Contacts in the Earldom of Orkney. *Saga-Book* 20.
- Althaus, S., 1993. *Die gotländischen Bildsteine. Ein Programm*. Göppinger Arbeiten zur Germanistik 588. Göppingen.
- Althin, A., 1967. Mörner i Väte – en preliminär redogörelse. *Gotlands Arkiv*.
- Anderson, J., 1881. *Scotland in Early Christian Times (Second Series)*. Edinburgh.
- Andersson, H., 1960. Rapport, arkeologisk undersökning. Uppland, Vallentuna sn, Bällsta, Fornlämningsområde 223. Not in print (ATA, ref.no. 7839/60).
- Andersson, L. & Evanni, L., 2012. *Folkvandrings tida gravar i Arninge*. Arkeologisk undersökning av RAÄ 63:1 och 63:2, Täby. Report 2012:12. RAÄ UV & Stockholms läns museum.
- Andreeff, A., 2001. *Bildstenen från Fröjel – Port till en glömd värld*. Graduate thesis in archaeology, Högskolan på Gotland, Visby.
- Andreeff, A., 2007. Gotlandic picture stones, hybridity and material culture. In Cornell, P. & Fahlander, F. (eds.), *Encounters, Materialities, Confrontations: Archaeologies of social space and interaction*. Cambridge.
- Andreeff, A., publication forthcoming. *Stones and People: Merovingian and Viking Age Picture Stones from the Island of Gotland*. University of Gothenburg.
- Andreeff, A. & Bakunic, I., a. publication forthcoming. *Arkeologisk undersökning vid bildstensplatserna Fröjel Stenstugu 1:18, Fröjel Raä 12:1, Fröjel socken, Gotland*, 2007. Gotarc Serie D, Arkeologiska rapporter 96. University of Gothenburg.
- Andreeff, A. & Bakunic, I., b. publication forthcoming. *Arkeologisk undersökning vid bildstensplatsen Buttle Ånge 1:28, Buttle Raä 42:1, 42:2, 145:1, Buttle socken, Gotland*, 2009. Gotarc Serie D, Arkeologiska rapporter 97. University of Gothenburg.
- Andrén, A., 1989. Dörrar till förgångna myter – en tolkning av de gotländska bildstenarna. In Andrén, A. (ed.), *Medeltidens födelse. Symposier på Kräpperups Borg*, 1. Lund.
- Andrén, A., 1991. Förhållandet mellan texter, bilder och ting. In Steinsland, G. et al. (eds.), *Nordisk hedendom. Et symposium*. Odense.
- Andrén, A., 1993. Doors to other worlds: Scandinavian death rituals in Gotlandic perspectives. *Journal of European Archaeology* 1.
- Andrén, A., Jennbert, K. & Raudvere, C. (eds.), 2006. *Old Norse religion in long-term perspectives. Origins, changes, and interactions*. An international conference in Lund, Sweden, June 3–7, 2004. Vägar till Midgård 8. Lund.
- Appelbaum, B., 1987. Criteria for treatment: Reversibility. *Journal of the American Institute for Conservation* 26.
- Arnberg, A., 2007. *Där människor, handling och tid möts. En studie av det förromerska landskapet på Gotland*. Stockholm Studies in Archaeology 42. Stockholm.
- Arrhenius, B. & Holmqvist, W., 1960. En bildsten revideras. *Fornvännen* 55.
- Arrhenius, B., 1970. Tür der Toten. *Frühmittelalterliche Studien* 4. Göttingen.
- Arwill-Nordbladh, E., 1998. *Genuskonstruktioner i nordisk vikingatid: förr och nu*. Gotarc Serie B, Gothenburg Archaeological Theses, No 9.
- ATA = Antikvarisk-Topografiska arkivet, Swedish National Heritage Board, Stockholm.
- Australia ICOMOS. 1999. *The Burra charter*. <http://australia.icomos.org/publications/charters/> [Accessed 2012-02-29].
- Bailey, R.N., 1978. The Chronology of Viking Age Sculpture in Northumbria. In Lang, J.T. (ed.), *Anglo-Saxon and Viking Age Sculpture and its Context: Papers from the Collingwood Symposium*. Oxford.
- Bailey, R.N., 1980. *Viking age sculpture in Northern England*. London.
- Bailey, R.N., 2003. Scandinavian Myth on Viking-period Stone Sculpture in England. In Ross, M.C. (ed.), *Old Norse myths, literature and society*. Proceedings of the 11th International Saga Conference 2–7 July 2000, University of Sidney. Odense.
- Bailey, R.N. & Cramp, R., 1988. *Corpus of Anglo-Saxon Stone Sculpture II: Cumberland, Westmorland and Lancashire North-of-the-Sands*. Oxford.
- Bengtsson, L., 2004. *Bilder vid vatten: kring hällristningar i Askum socken, Bohuslän*. Gotarc Serie C, Arkeologiska skrifter 51.
- Beowulf and the Finnsburg Fragment. 1914. A metrical translation into modern English by Hall, J.R.C. London.
- Beowulf, 1955. A metrical translation into Swedish by Collinder, B., 2nd ed. Stockholm.
- Beowulf, 1978. Introduction, notes and translation by Swanton, M. New York.
- Bergendahl Hohler, E., 1973. Sigurd og valkyrien på Hindarfjell, *Den iconographiske Post. Et nordisk blad om billede*.

- Bertelsen, H., 1905–1911. *Piðriks saga af Bern*, 1–5. Hæfte. Udgivet for Samfund til Udgivelse af Gammel Nordisk Literatur ved Henrik Bertelsen. STUAGNL XXXIV:1–5. Copenhagen.
- Bianchi, M., 2010. *Runor som resurs. Vikingatida skriftkultur i Uppland och Södermanland*. Runrön 20. Uppsala.
- Biezaïs, H., 1975. Baltische Religion. In Ström, Å.V. & Biezaïs, H. (eds.), *Germanische und Baltische Religion*. Stuttgart.
- Birkhan, H., 2006. Furor Heroicus. In Ebenbauer A. & Keller, J. (eds.), *8. Pöchlerner Heldenliedgespräch. Das Nibelungenlied und die Europäische Heldenichtung*. Philologica Germanica 26. Wien.
- Birkmann, Th., 1995. *Von Ågedal bis Malt. Die skandinavischen Runeninschriften vom Ende des 5. bis Ende des 9. Jahrhunderts*. Ergänzungsbände zum Reallexikon der Germanischen Altertumskunde 12. Berlin.
- Biuw, A., 1982. Spånga, Ärvinge, Gravfält 157A. Arkeologisk rapport, Stockholms stadsmuseum. Unprinted (ATA ref.no.508/1988).
- Biuw, A., 1992. *Norra Spånga. Bebyggelse och samhälle under järnåldern*. Stockholmsmonografier utgivna av Stockholms stad 76. Stockholm.
- Bjelland, T. & Helberg, B.H., 2006. *Rock Art. A Guide to the Documentation, Management, Presentation and Monitoring of Norwegian Rock Art*. Oslo.
- Blidmo, R., 1976. *Smyckeproduktion inom yngre järnålderns metallkonst: en studie i produktionsbetingelser och ritteknik*. Graduate thesis in archaeology, Stockholm University.
- Boström, R., 1959. Petrus Törnewall och Ölands kyrkor. *Fornvännen* 54.
- Bradley, R., 1993. *Altering the Earth. The origins of monuments in Britain and Continental Europe*. Edinburgh.
- Bradley, R. & Williams, H. (eds.), 1998. *The Past in the Past: the Reuse of Ancient Monuments*. World Archaeology 30:1. Abingdon.
- Bradley, J., 2010. Visual Vocabulary, Visual Strategy. *The Retrospective Methods Network Newsletter*. December.
- Brate, E., 1911–1918. *Östergötlands runinskrifter*. Sveriges runinskrifter 2. Stockholm.
- Brate, E. & Wessén, E., 1924–1936. *Södermanlands runinskrifter*. Sveriges runinskrifter 3. Stockholm.
- Broby-Johansen, R., 1945. *Danmarks ældste maleri. Et tusindaarsminde*. Copenhagen.
- Brown, C. (ed.), 1932. *English Lyrics of the XIIith Century*. Oxford.
- Brynhilds färd till Hel – see *Den poetiska eddan*
- Buisson, L., 1976. *Der Bildstein Ardre VIII auf Gotland. Göttermythen, Helden sagen und Jenseitsglaube der Germanen im 8. Jahrhundert n. Chr.* Akademie der Wissenschaften in Göttingen. Philologisch-Historische Klasse, 3. Folge 102. Göttingen.
- Burström, M., 1996a. Other Generations' Interpretation and Use of the Past: the Case of the Picture Stones on Gotland. *Current Swedish Archaeology* 4.
- Burström, M., 1996b. Bildstenarna på Gotland. Ett exempel på återanvändning. *Populär Arkeologi* 1996:3.
- Böhner, K., 1968. Beziehungen zwischen dem Norden und dem Kontinent zur Merowingerzeit. In Römisch-Germanisches Zentralmuseum Mainz (ed.), *Sveagold und Wikingerschmuck*. Ausstellungskataloge 3. Mainz.
- Böttger-Niedenzu, B., 1982. *Darstellungen auf gotländischen Bildsteinen, vor allem des Typs C und D, und die Frage ihres Zusammenhangs mit Stoffen der altnordischen Literatur*. Magister-Hausarbeit Ludwig-Maximilians-Universität München. München.
- Böttger Niedenzu, B. & Niedenzu, A., 1988. Neufunde gotländischer Bildsteine 1981–1985. *Skandinavistik* 18.
- Callmer, J., 1995. Hantverksproduktion, samhällsförändringar och bebyggelse. Iakttagelser från östra Sydkandinavien ca. 600–1100 e.Kr. In Resi, H.G. (ed.), *Produksjon og samfunn. Om erverv, specialisering og bosetning i Norden i 1. årtusen e.Kr.* Oslo.
- Callmer, J., 1997. Beads and bead production in Scandinavia and the Baltic Region c. AD 600–1100: a general outline. In Wieczorek, A. & Freedon, U.v., (eds.), *Perlen: Archäologie, Techniken, Analysen: Akten des Internationalen Perlensymposiums in Mannheim vom 11. bis 14. November 1994*. Bonn.
- Carlsson, A., 1983. *Djurhuvudformiga spännen och gotländsk vikingatid*. Text och katalog. Stockholm studies in archaeology 5. Stockholm.
- Carlsson, A., 1988. *Vikingatida ringspännen från Gotland*. Stockholm studies in archaeology 8. Stockholm.
- Carlsson, D., 1979. *Kulturlandskapets utveckling på Gotland*. Visby.
- Carlsson, D., 1998. Fröjel Discovery Programme – arkeologisk forskning och historieförmedling. *Gotländska Arkiv*.
- Carlsson, D., 1999a. "Ridanäs". *Vikingahamnen i Fröjel*. Visby.
- Carlsson, D., 1999b. *Gård, hamn och kyrka. En vikingatida kyrkogård i Fröjel*. Visby.
- Carver, M., 1999. *Surviving in Symbols. A Visit to the Pictish Nation*. Edinburgh.
- Carver, M., 2008. *Portmahomack. Monastery of the Picts*. Edinburgh.
- Carver, M., 2011. Lost, found, repossessed or argued away – the case of the Picts. *Antiquity* 85.
- Cassel, K., 1998. *Från grav till gård. Romersk järnålder på Gotland*. Stockholm Studies in Archaeology 16. Stockholm.
- Cassiodorus – see Mommsen 1894.
- Christiansson, H., 1952–67. Tjängvidestenens mästare. *Svenskt konstnärslexikon* 5. Malmö.
- Clarke, D.V., 2007. Reading the multiple lives of Pictish symbol stones. *Medieval Archaeology* 51.
- Clover, C. J., 1993. Regardless of Sex: Men, Women, and Power in Early Northern Europe. *Representations* 44.
- Collingwood, R.G., 1907. Some Illustrations of the Archaeology of the Viking Age in England. *Saga-Book* 5.
- Collingwood, R.G., 1927. *Northumbrian Crosses of the Pre-Norman Age*. London.
- Cramp, R., 1984. *Corpus of Anglo-Saxon Stone Sculpture 1: County Durham and Northumberland*. Oxford.
- Crumlin-Pedersen, O., 1997. *Viking-age ships and shipbuilding in Hedeby/Haithabu and Schleswig*. Schleswig.
- Damico, H., 1984. *Beowulf's Wealhtheow and the valkyrie tradition*. Madison, Wisc.
- Den poetiska Eddan*, 1972. Translated into Swedish by Collinder. B, 3rd ed. Stockholm.

- Dobat, A.S., 2006. Bridging mythology and belief. Viking Age functional culture as a reflection of the belief in divine intervention. In Andrén, A. et al. (eds.).
- Dockrill, S.J., Bond, J.M., Turner, V.E., Brown, L.D., Bashford, D.J., Cussans, J.E. & Nicholson, R.A., 2010. *Excavations at Old Scatness, Shetland I. The Pictish Village and Viking Settlement*. Lerwick.
- Doehne, E.F. & Price, C., 2010. *Stone conservation: an overview of current research*. Los Angeles.
- DR + No. = Inscription number in *Danmarks runeindskrifter*, see Jacobsen & Moltke 1941–1942.
- Driscoll, S.T., 2001. The Migration Period and Saxons and Celts. In Cunliffe, B., Bartlett, R., Morrill, J.; Briggs, A. & Bourke, J. (eds.), *The Penguin Atlas of British & Irish History*. London.
- Driscoll, S.T., 2002. *Alba. The Gaelic Kingdom of Scotland AD 800–1124*. Edinburgh.
- Driscoll, S.T., Geddes, J. & Hall, M., 2011. *Pictish Progress. New Studies on Northern Britain in the Early Middle Ages*. Leiden.
- Düwel, K., 1986. Zur Ikongraphie und Ikonologie der Sigurðdarstellungen. In Roth, H. (ed.), *Zum Problem der Deutung frühmittelalterlichen Bildinhalte*. Sigmaringen.
- Düwel, K., 2008. *Runenkunde*. 4th. ed. Sammlung Metzler 72. Stuttgart.
- Edberg, R., 1993. *Vikingabåtar i Sverige i original och kopia. Något om de experimentella båtprojekten Krampmacken och Aifur, deras bakgrund och förutsättningar*. Graduate thesis in archaeology. Stockholms universitet. Eddadigte 1971 = Jón Helgason (ed.), 1971, *Eddadigte 3. Heltedigte 1*. Ed. Copenhagen.
- Edda Snorra Sturlusonar* = Finnur Jónsson (ed.), 1907. *Edda Snorra Sturlusonar*. Reykjavík.
- Eddukvæði* = Gísli Sigurðsson (ed.), 1998. *Eddukvæði*. Reykjavík.
- Ellis Davidson, H., 1988. *Myths and symbols in pagan Europe*. Manchester.
- Ellmers, D., 1986. Schiffsdarstellungen auf skandinavischen Grabsteinen. In Roth, H. (ed.), *Zum Problem der Deutung frühmittelalterlicher Bildinhalte: Akten des 1. Internationalen Kolloquiums in Marburg a.d. Lahn, 15.–19. Februar 1983*. Sigmaringen.
- Engström, J., 1984. *Torsburgen. Tolkning av en gotländsk fornborg*. Aun 6. Uppsala.
- Enright, M.J., 1996. *Lady with a Mead Cup. Ritual, Prophecy and Lordship in the European Warband from La Tène to the Viking Age*. Dublin.
- Eshleman, L.E., 1983. *The Monumental Stones of Gotland. A Study in Style and Motif*. A Thesis submitted to the Faculty of the Graduate School of the University of Minnesota. Ann Arbor, Michigan.
- Eshleman, L.E., 2000. *Weavers of Peace, Weavers of War*. In Wolflthal, D. (ed.), *Peace and Negotiation. Strategies for Coexistence in the Middle Ages and the Renaissance*. Arizona Studies in the Middle Ages and the Renaissance 4. Turnhout.
- Evanni, L. & Hamilton, J., 2011. Ännu en kammargrav funnen i Uppland. *Populär Arkeologi* 2011:3.
- Fagerlie, J., 1967. *Late Roman and Byzantine Solidi Found in Sweden and Denmark*. Numismatic Notes and Monographs 157. New York.
- Faulkes, A. (ed.), 1998. *Snorri Sturluson – Edda. Skáldskaparmál*. London.
- Forsyth, K., 1997. Some thoughts on Pictish symbols as formal writing system. In Henry, D. (ed.), *The Worm, the Germ and the Thorn. Pictish and Related Studies Presented to Isabel Henderson*. Balgavies.
- Foster, S.M., 2004. *Picts, Gaels and Scots*. London.
- Foster, S.M. & Cross, M. (eds.), 2005. *Able Minds and Practised Hands. Scotland's Early Medieval Sculpture in the 21st Century*. Leeds.
- Fraser, I. (ed.), 2008. *The Pictish Symbol Stones of Scotland*. Edinburgh.
- Fraser, I. & Halliday, S., 2011. The early medieval landscape of Donside, Aberdeenshire. In Driscoll, S.T. et al (eds.).
- Fridell, S., 2011. Graphic variation and change in the younger Futhark. *NOWELE* 60/61.
- Friesen, O. von., 1918–1919. Runenschrift. In Hoops, J. (ed.), *Reallexikon der germanistischen Altertumskunde*. 4. Strassburg.
- Friesen, O. von. (ed.), 1933. *Runorna*. Nordisk Kultur 6. Stockholm.
- Friesen, O. von., 1949. Möjbro-stenen. *Fornvännen* 44.
- Fuglesang, S. Horn, 2005. Runesteines ikonografi. *Hikuin* 32.
- Fuglesang, S. Horn, 2007. Ekphrasis and Surviving Imagery in Viking Scandinavia. *Viking and Medieval Scandinavia* 3.
- G + No = Inscription number in *Gotlands runinskrifter*, see Jansson & Wessén 1962 (G 1–137), Svärdström 1978 (G 138–221) and Gustavson & Snædal ms. (G 222–393).
- Gauert, A., 1958a. *Colloquium des Max-Planck-Instituts für Geschichte in Göttingen über die von Karl Hauck, Erlangen, im Rahmen seiner Forschungen zur unschriftlichen Laienkultur des frühen Mittelalters durchgeführten Untersuchungen archäologischer Fein- und Restbefunde*. Mitteilungen aus der Max-Planck-Gesellschaft zur Förderung der Wissenschaften 1–6.
- Gauert, A., 1958b. Colloquium in Göttingen den 12. Mai 1957. *Fornvännen* 53.
- Geddes, J., 2011. The problem of Pictish art. In Driscoll, S.T. et al (eds.).
- Gelling, P. & Ellis Davidson, H., 1969. *The chariot of the sun and other rites and symbols of the northern Bronze Age*. London.
- Gillespie, G.T., 1973. *A Catalogue of Persons named in German Heroic Literature (700–1600) including named Animals and Objects and Ethnic Names*. Oxford.
- GM = Gotland Museum, Visby.
- Goldberg, M. in prep. Pictish *adventus*.
- Goldhahn, J., 2006. *Hällbildsstudier i norra Europa. Trender och tradition under det nya millenniet*. Gotarc Serie C, Arkeologiska skrifter 64.
- Gondek, M. & Noble, G., 2011. Together as one: the landscape of the symbol stones at Rhynie, Aberdeenshire. In Driscoll, S.T. et al. (eds.).
- Gotlands Bildsteine* – see Lindqvist 1941–42.
- Gotlands runinskrifter* – see Jansson & Wessén 1962, Svärdström 1978, Gustavson & Snædal ms.
- Gregorii Episcopi Turenensis Historiarum Libri decem* I. WBG 1989 (1955). Darmstadt.
- Grimm, W., 1999. *Die Deutsche Heldenage*. Mit der Vorrede zur 2. Auflage von Karl Müllenhoff, Zeugnissen und Exkursen von Karl Müllenhoff und Oskar Jänicke, dem Briefwechsel über das Nibelungenlied zwischen Karl Lachmann und Wilhelm Grimm und einem Brief K. Lachmanns an Jacob Grimm. 1–2. Jacob Grimm und Wilhelm Grimm, Werke, Abteilung II: Die Werke Wilhelm

- Grimms 36, 1–2. Forschungsausgabe herausgegeben von Ludwig Erich Schmitt. Nach der Ausgabe von Reinhold Steig, Karl Müllenhoff und Oskar Jänicke neu herausgegeben von Otfried Ehrismann. Nachdruck der 3. Auflage Göttingen 1889. Hildesheim.
- Grimnismál – see *Eddukvæði*.
- Gräslund, A.-S., 2006. Dating the Swedish Viking-Age rune stones on stylistic grounds. In Stoklund, M. et al. (eds.), *Runes and their Secrets Studies in runology*. Copenhagen.
- Gräslund, B., 2008. Fimbulvintern, Ragnarök och klimatkrisen år 536–537 e. Kr. *Saga och Sed* 2007.
- Guðni Jónsson 1950. *Fornaldar Sögur Norðurlanda* 2. Reykjavík.
- Gunnell, T., 2003. Höf, höll, goð(ar) and dvergar. Ritual Space in the Pagan Icelandic Skál. In Simek, R. & Meurer, J. (eds.), *Scandinavia and Christian Europe in the Middle Ages, papers of The International Saga Conference Bonn/Germany, 28th—2nd August 2003*. Bonn.
- Gustafsson, N.B. & Söderberg, A., 2007. En senvikingatida silerverkstad i Fröjel. *Gotländskt Arkiv*.
- Gustavson, H., 2001. Pilgårdstenen och dess inskrift. *Gotländskt Arkiv*.
- Gustavson, H., 2009. Georg Wallin, Carl von Linné och de gotländska runmonumenten. In Svensson, T. et al. (eds.). *Spaden och pennan. Ny humanistisk forskning i andan av Erik B. Lundberg och Bengt G. Söderberg*. Stockholm.
- Gustavson, H., Hamilton, J. & Kitzler Åhfeldt, L., 2006. Fragmenten från Tomteboda. Runsten med bildframställning eller bildstenar med runinskrift. *Fornvännen* 101.
- Gustavson, H. & Snædal, Th., ms. *Gotlands runinskrifter* 3. (Electronic resource) <http://www.raa.se/kulturarvet/arkeologi-fornlamningar-och-fynd/runstenar/digitala-sveriges-runinskrifter/>
- Göransson, E.-M.Y., 1999. *Bilder av kvinnor och kvinnlighet: genus och kroppsspråk under övergången till kristendomen*. Stockholm Studies in Archaeology 18. Stockholm.
- Göransson, J., 1750. *Bautil, det är: Alle Svea ok Götha Rikens Runstenar...* Stockholm.
- Görman, M., 1998. Folkvandringstida stenkonst på Gotland. Uttryck för nordisk forntidstro? *Svensk religionshistorisk årsbok* 7.
- Hadley, D.M., 2006. *The Vikings in England. Settlement, Society and Culture*. Manchester.
- Hadorph J., 1666. *Kongl: Maysts Placat och Påbudh Om Gamble Monumenter och Antiquiteter*. Stockholm.
- Hall, M., 2011. Tales from beyond the Pict: sculpture and its uses in and around Forteviot, Perthshire from the ninth century onwards. In Driscoll, S.T. et al. (eds.)
- Hallgård Christensen, P., 1997. Den Gotlandske billedverden fra sten til myte. En ikonografisk kritik af de Gotlandske billedsten som kilde til vikingetiden trosforestillinger. *ICO Iconographisk post. Nordic review of iconography* 1997:4.
- Hallström, G., 1931. Böra runstenar och hällristningar uppmålas? *Fornvännen* 26.
- Hamilton, J., 2003. *Tomtebodagravfältet*. Uppland, Solna socken, Polisen 2, RAÄ 39. Arkeologisk förundersökning och undersökning. Dokumentation av fältarbetsfasen 2003:8. Riksantikvarieämbetet, UV Mitt. Stockholm.
- Hamilton, J., 2007. Gårdsbebyggelse under folkvandringstid. In Anund, J. (ed.), *Gården, tingen, graven. Arkeologiska perspektiv på Mälardalen*. Riksantikvarieämbetet, arkeologiska undersökningar, Skrifter 71.
- Hansson, H., 1917. Bildstenar. In Kempe, A., Apelqvist, E. & Sjögren, O. (eds.), *Sverige. Geografisk, topografisk, statistisk beskrifning*. 2. Kronobergs, Jönköpings, Kalmar, Gotlands och Östergötlands län. Stockholm.
- Harden, J., 2010. *The Picts*. Edinburgh.
- Harris, J., 1985. Eddic Poetry. In Clover, C. & Lindow, J. (eds.), *Old-Norse Literature. A Critical Guide*. London.
- Hauck, K., 1957. Germanische Bilddenkmäler des frühen Mittelalters. *Vierteljahrsschrift für Literaturwissenschaft und Geistesgeschichte* 31.
- Hauck, K., 1969. Vom Kaiser- zum Götter-Amulett. *Frühmittelalterliche Studien* 3.
- Hauck, K., 1970. *Goldbrakteaten aus Sievern. Spätantike Amulett-Bilder der "Dania Saxonica" und die Sachsen- "origo" bei Widukind von Corvey*. Münstersche Mittelalter-Schriften 1. München.
- Hauck, K., 1977. *Wielands Hort. Die sozialgeschichtliche Stellung des Schmiedes in frühen Bildprogrammen nach und vor dem Religionswechsel*. Antikvariskt Arkiv 64. Stockholm.
- Hauck, K., 1980. Die Veränderung der Missionsgeschichte durch die Entdeckung der Ikonologie der germanischen Bilddenkmäler, erhellt am Beispiel der Propagierung der Kampfshilfen des Mars-Wodan in Altuppsala im 7. Jahrhundert. Zur Ikonologie der Goldbrakteaten xx. *Westfalen: Hefte für Geschichte, Kunst und Volkskunde* 57.
- Hauck, K. (with Hans Drescher), 1982. Götterthrone des heidnischen Nordens. *Frühmittelalterliche Studien* 16.
- Hauck, K., 1998. Die runenkundigen Erfinder von den Bildchiffren der Goldbrakteaten. Zur Ikonologie der Goldbrakteaten LVII. *Frühmittelalterliche Studien* 32.
- Hauck, K., 2011a. Machtatten Odins. Die Chiffrenwelt der Brakteaten und die Methoden ihrer Auswertung. In Heizmann, W. & Axboe, M. (eds.), *Die Goldbrakteaten der Völkerwanderungszeit – Auswertung und Neufunde*. Ergänzungsbände zum Reallexikon der Germanischen Altertumskunde 40. Berlin.
- Hauck, K., 2011b. Die Bildformeln der Goldbrakteaten in ihren Leitvarianten. Zur Ikonologie der Goldbrakteaten, LV. In Heizmann, W. & Axboe, M. (eds.), *Die Goldbrakteaten der Völkerwanderungszeit – Auswertung und Neufunde*. Ergänzungsbände zum Reallexikon der Germanischen Altertumskunde 40. Berlin.
- Hauck, K., & Axboe, M., 1985. Hohenmemmingen-B, ein Schlüsselstück der Brakteatenikonographie. Zur Ikonologie der Goldbrakteaten XXXI. *Frühmittelalterliche Studien* 19.
- Hauck, K. et al., 1985–1989. *Die Goldbrakteaten der Völkerwanderungszeit. 1:3, Ikonographischer Katalog (IK 1, Tafeln)*. München. See also: Katalog der Neufunde in Heizmann, W. & Axboe, M., 2011.

- Hauck, K. et al., 1997. Ein neues Problemstück der Brakteatenikonographie. Issendorf-B, Landkreis Stade, Niedersachsen.
- Zur Ikonologie der Goldbrakteaten LIV. *Studien zur Sachsenforschung* 10.
- Hedeager, L., 1997. *Skygger af en anden virkelighed. Oldnordiske myter*. Copenhagen.
- Hedeager, L., 2011. *Iron Age myth and materiality. An archaeology of Scandinavia Ad 400–1000*. London.
- Heinzel, R., 1889. Über die ostgothische Heldensage. *Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften zu Wien* 119:3.
- Heizmann, W., 1997. Zur Bedeutung von altnordisch *fen*. In Hauck, K. et al. (eds.), Ein neues Problemstück der Brakteatenikonographie: Issendorf-B, Landkreis Stade, Niedersachsen. Zur Ikonologie der Goldbrakteaten LIV. *Studien zur Sachsenforschung* 10.
- Heizmann, W., 1999. Fenriswolf. In Müller, U. & Wunderlich, W. (eds.) *Mittelalter Mythen 2: Dämonen, Monster, Fabelwesen*. St. Gallen.
- Heizmann, W., 2001. Bildchiffren und Runen von Kommunikationsformen und Heilverfahren auf goldenen C-Brakteaten. In Stausberg, M. (ed.), *Kontinuitäten und Brüche in der Religionsgeschichte*, Ergänzungsbände zum Reallexikon der Germanischen Altertumskunde 31.
- Heizmann, W., 2007a. Die Fauna der völkerwanderungszeitlichen Goldbrakteaten. Tiere im Kontext der Regenerationsthematik. In Heizmann, W. et al. (eds.), *Tiere in skandinavischer Literatur und Kulturgeschichte. Repräsentationsformen und Zeichenfunktionen*. Freiburg im Breisgau.
- Heizmann, W., 2007b. Gold, Macht, Kult. Karl Haucks Studien zur Ikonologie der Goldbrakteaten. *Frühmittelalterliche Studien* 41.
- Heizmann W. & Axboe, M. (eds.), 2011. *Die Goldbrakteaten der Völkerwanderungszeit – Auswertung und Neufunde*. Ergänzungsbände zum Reallexikon der Germanischen Altertumskunde 40.
- Heizmann, W. & Düwel, K., 2009. Einige neuere Publikationen zu den Merseburger Zaubersprüchen: Wolfgang Beck und andere. *Indogermanische Forschungen* 114.
- Helreid Brynhildar – see *Eddukvæði*.
- Helmbrecht, M., 2011. *Wirkmächtige Kommunikationsmedien – Menschenbilder der Vendel- und Wikingerzeit und ihre Kontexte*. Acta archaeologica Lundensis 30. Lund.
- Henderson, G. & Henderson, I., 2004. *The Art of the Picts. Sculpture and Metalwork in Early Medieval Scotland*. London.
- Henderson, I., 1987. Early Christian monuments of Scotland displaying crosses but no other ornament. In Small, A. (ed.), *The Picts. A New Look at Old Problems*. Dundee.
- Heusler, A., 1941. *Die Altgermanische Dichtung*. 2nd edition. Potsdam.
- Higgitt, J., 2005. Towards a 'new ECMS': the proposal for a new corpus of early medieval sculpture in Scotland. In Foster, S. & Cross, M. (eds.).
- Hilfeling, C.G.G., 1797–1801. *C.G.G. Hilfeling's gotländska resor*. 1–2. Ed. Gislestad, T. 1994–95. Visby.
- Holmström, M., 2010. *Bildstenar i Mälardalen och folkvandringstidens kollaps*. M.A. diss. in archaeology, Stockholm University.
- Holmqvist, W., 1952. De äldsta gotländska bildstenarna och deras motivkrets. *Fornvännen* 47.
- Holmqvist, W., 1976. Bildsteine der Völkerwanderungs- bis Wikingerzeit. *Reallexikon der germanischen Altertumskunde* 2.
- Holz, G., 1893. *Die Gedichte vom Rosengarten zu Worms*. Halle.
- Hygen, A-S., 2006. *Protection of Rock Art. The Rock Art Project 1996–2005. Final Report from the Directorate for Cultural Heritage*. Oslo.
- Höfler, O., 1963. Der Rökstein und die Sage. *Arkiv för Nordisk Filologi* 78.
- ICOMOS. 1964. *The Venice Charter for the Conservation and Restoration of Monuments and Sites*. http://www.international.icomos.org/charters/venice_e.pdf [Accessed 2012-02-29].
- ICOMOS. 1990. *Charter for the protection and management of the archaeological heritage. International Committee for the Management of Archaeological Heritage (ICAHM) an approved by the 9th General Assembly in Lausanne in 1990*. http://www.international.icomos.org/charters/arch_e.pdf [Accessed 2012-02-29].
- ICOMOS. 1990. *Venedig-chartret. Internationellt charter för bevarande och restaurering av minnesmärken och områden av historiskt intresse*. http://www.icomos.se/pdf/Venice_Charter_%20Sv.pdf [Accessed 2012-02-29].
- ICOM-CC. 2008. *Terminology to characterize the conservation of tangible cultural heritage*. <http://www.icom-cc.org/242/about-icom-cc/what-is-conservation/> [Accessed 2012-02-29].
- IK = *Ikonographischer Katalog*, see Hauck, K. et al. 1985–1989.
- Imer, L. M., 2004. Gotlandske billedsten – dateringen af Lindqvists gruppe C og D. *Aarbøger for nordisk oldkyndighed og historie* 2001.
- Imer, L. M., 2007. *Runer og runeindskrifter – kronologi, kontekst og funktion i Skandinaviens jernalder og vikingetid*. 1–2. Copenhagen.
- Jacobsen, L. & Moltke, E., 1941–1942. *Danmarks Runeindskrifter*. Copenhagen.
- James, H.F., Henderson, I., Foster, S. M. & Jones, S., 2008. *A Fragmented Masterpiece. Recovering the Biography of the Hilton of Cadboll Cross-Slab*. Edinburgh.
- Jansson, I., 1981. Economic aspects of fine metalworking in Viking Age Scandinavia. In Wilson, D. & Caygill, M.J. (eds.), *Economic aspects of the Viking Age*. London.
- Jansson, S.B.F., 1977. *Runinskrifter i Sverige*. 2nd ed. Uppsala.
- Jansson, S. B. F. & Wessén, E., 1962. *Gotlands runinskrifter*. 1. Sveriges runinskrifter 11. Stockholm
- Jensen, J., 1999. *Bronzealderens slutning – et nordeuropæisk perspektiv*. Copenhagen.
- Jiriczek, O.L., 1898. *Deutsche Heldenage*. 1. Strassburg.
- Johansen, B., 1997. *Ormalur. Aspekter på tillvaro och landskap*. Stockholm studies in Archaeology 14. Stockholm.
- Johnsen, I. Sanness, 1968. *Stuttruner i vikingtidens innskrifter*. Oslo.
- Jónas Kristjánsson, 1988. *Eddas and Sagas. Iceland's Medieval Literature*. Reykjavík.
- Jordanes, see Mommsen 1882.
- Jungner, H., 1930. Den gotländska runbildstenen från Sanda. Om Valhallstro och hednisk begravningsritual. *Fornvännen* 25.

- Jungner, H. & Svärdström, E., 1940–1970. *Västergötlands runinskrifter*. Sveriges runinskrifter 5. Stockholm.
- Jørgensen, L., Storgaard, B. & Gebauer Thomsen, L. (eds.) 2003. *Sejrens triumf. Norden i skyggen af det romerske imperium*. Copenhagen.
- Karlsson, J., 1998. *Röda och vita bildstenar i mälarområdet. Stenens innebörd och användning i grävsmannanhang. Material och motiv i samspelet*. Graduate thesis in archaeology, Stockholm University/Gotland University.
- Kaul, F., 1998. *Ships on Bronzes: A Study in Bronze Age Religion and Iconography*. 1–2. Copenhagen.
- Kaul, F., 2004. *Bronzealderens religion. Studier af den nordiske bronzealders ikonografi*. Copenhagen.
- Kaul, F., 2006. Udgavningar ved helleristninger på Bornholm. *Adoranter* 2006.
- KB = The National Library of Sweden, Stockholm.
- Kitzler Åhfeldt, L., 2002. *Work and Worship. Laser Scanner Analysis of Viking Age Rune Stones*. Stockholm.
- Kitzler Åhfeldt, L., 2009a. Keltiskt eller kontinentalt? Om mallanvändning på Gotlands bildstenar. In Svensson, T. et al. (eds.), *Spaden och pennan. Ny humanistisk forskning i andan av Erik B Lundberg och Bengt G Söderberg*. Stockholm.
- Kitzler Åhfeldt, L., 2009b. The rune stone fragments at Köpingsvik, Öland. In Regner, E. et al. (eds.), *From Ephesus to Dalecarlia. Reflections on Body, Space and Time in Medieval and Early Modern Europe*. Stockholm.
- Kitzler Åhfeldt, L., 2010. 3D-scanning at the Archaeological Research Laboratory 2006–2009. *Rapporter från Arkeologiska Forskningslaboratoriet*. Stockholm University.
- Kitzler Åhfeldt, L., Manuscript a. 3D-scanner analyses of the Gotland Picture Stones; Workshops, Iconography and Dating. With supplementary material: Digital catalogue of 3D-data of picture stones, *JONAS: Journal of Nordic Archaeological Science* 18. In press.
- Kitzler Åhfeldt, L., Manuscript b. Picture-stone workshops on Viking Age Gotland – a study of craftworkers' traces. In Heizmann, W. & Oehrl, S. (eds.). Papers presented at the congress "Denkmäler zur germanischen Mythologie und Heldenage: Autopsie – Dokumentation – Deutung" in Munich, 3.–5. March 2010 (preliminary title). Ergänzungsbände zum Reallexikon der germanischen Altertumskunde. Berlin. In press.
- KJ + No. = Inscription number in Krause & Jankuhn 1966.
- Klos, L., 2009. *Runenstein in Schweden. Studien zu Aufstellungsort und Funktion*. Ergänzungsband zum Reallexikon der Germanischen Altertumskunde 64. Berlin.
- Kopár, L., Forthcoming (12/2012) *Gods and Settlers: The Iconography of Norse Mythology in Anglo-Scandinavian Sculpture*. Studies in the Early Middle Ages 25. Turnhout.
- Kragl, F., 2007. Mythisierung – Heroisierung – Literarisierung. Vier Kapitel zu Theoderich dem Großen und Dietrich von Bern. *Beiträge zur Geschichte der deutschen Sprache und Literatur* 129.
- Krause, W., 1937. *Runeninschriften im älteren Futhark*. 1. ed. Schriften der Königsberger Gelehrten Gesellschaft, Geisteswissenschaftliche Klasse. 13:4. Halle.
- Krause, W. & Jankuhn, H., 1966. *Die Runeninschriften im älteren Futhark*. Abhandlungen der Akademie der Wissenschaften in Göttingen, Philologisch-Historische Klasse, 3. Folge, 65. Göttingen.
- Kristiansen, K. & Larsson T.B., 2005. *The Rise of Bronze Age Society. Travels, Transmissions and Transformations*. Cambridge.
- Kuder, U., 1977. *Die Initialen des Amienspalters (Amiens, Bibliothèque Municipale Ms. 18)*. München.
- Kuhn, H. & Neckel, G. (eds.), 1983. *Edda. Die Lieder des Codex Regius nebst verwandten Denkmälern*. 1. Text. 5th edition. Germanische Bibliothek. 4 Heidelberg.
- Källström, M., 2005. Gamla och nya vägar till Sveriges runinskrifter. En kritisk översikt av kållpublicerationerna för svenska runtexter. *Historisk tidskrift* 125:2.
- Källström, M., 2007. *Mästare och minnesmärken. Studier kring vikingatida runristare och skriftmiljöer i Norden*. Acta Universitatis Stockholmiensis. Stockholm studies in Scandinavian philology. New series 43. Stockholm.
- Lamm, J.P., 1991. Ship or ducks? Comments on the picture stone found at Grobin, Latvia. *Fornvännen* 86.
- Lamm, J.P., 2003. En ärrad veteran. In Nylén & Lamm 2003.
- Lamm, J.P., 2006. Tjängvide. *Reallexikon der Germanischen Altertumskunde* 31. Berlin.
- Lang, J.T. 1972. Illustrative Carving of the Viking Period at Sockburn-on-Tees. *Archaeologica Aeliana* 4, 50.
- Lang, J.T., 1984. *The Hogback. A Viking Colonial Monument*. Anglo-Saxon Studies 3, Oxford.
- Lang, J., 1991. *Corpus of Anglo-Saxon Stone Sculpture. Volume III. York and Eastern Yorkshire*. Oxford.
- Lang, J., 2001. *Corpus of Anglo-Saxon Stone Sculpture. Volume VI. Northern Yorkshire*. Oxford.
- Larsen, A., 2009. *De första gotländska bildstenarna. En analys av bildstenar från Lindqvists grupp A & B med optisk 3D-scanning*. M.A. diss. in laborative archaeology. Stockholms University.
- Lee, R., Jonathan, P. & Ziman, P., 2010. Pictish symbols revealed as a written language through application of Shannon entropy. *Proceedings of the Royal Society A*, (electronic resource) <http://rspa.royalsocietypublishing.org/content/early/2010/02/26/rspa.2010.0041.full> [Accessed 2012-03-01]
- Lienert, E. (ed.), 2008. Dietrich-Testimonien des 6. bis 16. Jahrhunderts. *Texte und Studien zur mittelhochdeutschen Heldenepik* 4.
- Liestol, K., 1931. *Folkevisor*. Nordisk Kultur 9A. Stockholm.
- Lillegren, J.G., 1834. *Monumenta runica. Run-urkunder*. Tillägg till Svenskt Diplomatarium 1. Stockholm.
- Lind, L., 1981. *Roman denarii found in Sweden*. 2, Catalogue text. Stockholm Studies in Classical Archaeology 11. Stockholm.
- Lind, L., 1988. *Romerska denarer funna i Sverige*. Stockholm.
- Lindqvist, M., 1983. *Tre vikingatida gravfält på Gotland*. Mölner, Tjängdarve, Uppgårde. Visby.
- Lindqvist, S., 1941–1942. *Gotlands Bildsteine*. 1–2. Stockholm.
- Lindqvist, S., 1956. Bildstensfynd vid kyrkorestaureringar. *Gotländskt Arkiv*.
- Lindqvist, S., 1962. Jättestenen från Sanda och andra nyfunna bildstenar. *Gotländskt Arkiv*.

- Lindqvist, S., 1964. Forngutniska altaren och därtill knutna studier. *Kungl. Humanistiska Vetenskaps-Samfundet i Uppsala, Årsbok*. 1962–63.
- Lindqvist, S., 1968. Sagnet om Hild. *Skalk* 3.
- Ling, J., 2008. *Elevated Rock Art. Towards a maritime understanding of Rock Art in northern Bohuslän, Sweden*. Gotarc Serie B, Gothenburg Archaeological Theses 49.
- Ling, J., Kegel, K., Sörman, A., & Wessman, A. (eds.), publication forthcoming. *Arkeologisk undersökning vid hällristningarna RAÄ 446:2–3 och 63:1–2, Tossene socken, Bohuslän*, 2010. Gotarc Serie D, Arkeologiska rapporter 99.
- Ljung, C. & Thedéen, S., 2009. *Ritualer vid runstenar. En arkeologisk undersökning invid Ångbystenen i Bromma*. Stockholm.
- Ljung, C. & Thedéen, S., publication forthcoming. *Without a trace? Rituals and remembrance at rune stones*. Konferensvolym från Nordic TAG, Trondheim, 2009.
- Loman, B., 1965. Rökrunorna som grafematiskt system. *Arkiv för nordisk filologi* 24.
- Lorenz, G., 1984. *Snorri Sturluson. Gylfaginning*. Texte, Übersetzung, Kommentar von Gottfried Lorenz. Darmstadt.
- Lund Hansen, U., 1987. *Römischer Import im Norden. Warenaustausch zwischen dem Römischen Reich und dem freien Germanien unter besonderer Berücksichtigung Nordeuropas*. Nordiske Fortidsminder 10. Copenhagen.
- Lund Hansen, U. et al. (eds.), 1995. *Himlingøje – Seeland – Europa. Ein Gräberfeld der jüngeren römischen Kaiserzeit auf Seeland, seine Bedeutung unter internationalen Beziehungen*. Nordiske Fortidsminder 13. Copenhagen.
- Lundin, A., 2006. The advent of the esteemed horseman-sovereign. A study of the rider-motifs on Gotlandic picture-stones. In Andrén, A. et al. (eds.).
- Lönnroth, L., 2008. *Den dubbla scenen. Muntlig diktning från Eddan till Abba*. New edition. Stockholm.
- Lönnroth, L., 2009. Old Norse text as performance. *Scripta Islandica*.
- Malone, K., 1964. An Anglo-Latin Version of Hjaðningavíg. *Speculum* 39:1.
- Manneke, P., 1984. En tidig bildsten i Grötlingbo? *Gotländskt Arkiv*.
- Marold, E., 1988. Wandel und Konstanz in der Darstellung der Figur des Dietrich von Bern. In Beck, H. (ed.), *Heldensage und Helden-dichtung im Germanischen*. Ergänzungsbände zum Reallexikon der Germanischen Altertumskunde 2. Berlin.
- McKinnell, J., 1987. Norse Mythology and Northumbria: A Response. *Scandinavian Studies* 59.
- Melnikova, E. A., 2001. *Skandinavskie runiceskie nadpisi. Novye nachodki i interpretaci. Teksty, perevod, kommentarij*. Moskva.
- Meyer, K., 2011. Saints, scrolls and serpents: theorising a Pictish liturgy on the Tarbat peninsula. In Driscoll, et al (eds.).
- MGH = Monumenta Germaniae Historica*.
- Mills, N., 2001. *Saxon & Viking Artefacts*. Witham.
- Mitchell, B. & Robinson, F.C. (eds.) 1998. *Beowulf. An edition with relevant shorter texts*. Oxford.
- Moltke, E., 1932. Tekniska hjälpedmedler og metoder i epigrafiens tjeneste. Med särligt henblik på runeindskrifter. *Fornvännen* 27.
- Mommsen, Th., 1882. *Iordanis Romana et Getica*. MGH, Scriptores, Auctores antiquissimi 5:1. Berlin.
- Mommsen, Th., 1894. *Cassiodori Senatoris Variae*. MGH, Scriptores, Auctores antiquissimi 12. Berlin.
- Mommsen, Th., 1898. *Chronica Minora Saec. IV.V.VI.VII, Vol. III*. MGH, Auctores antiquissimi 13. Berlin.
- Müller-Wille, M., 1977. Der frühmittelalterliche Schmied im Spiegel skandinavischer Grabfunde. *Frühmittelalterliche Studien* 11.
- Mähl, K. G., 1989. En bildsten i ursprungligt läge vid Vatlings i Fole. *Gotländskt Arkiv*.
- Mähl, K.G., 1990a. Bildstenar och stavgardar – till frågan om de gotländska bildstenarnas placering. *Gotländskt Arkiv*.
- Mähl, K.G., 1990b. *Rapport angående arkeologisk undersökning vid fornlämning RAÄ nr 3, Vatlings i Fole socken* (unprinted).
- Mähl, K.G., 2002. *Vägval: vägar och samhälle på Gotland under 1500 år*. Oskarshamn.
- Nancke-Krogh, S., 1995. *Stenbilleder i danske kirker*. Copenhagen.
- N + No. = Inscription number in *Norges innskrifter med de yngre runer*. Eds. M. Olson & A. Liestol. 1941–. Oslo.
- Nedoma, R. 1988. *Die bildlichen und schriftlichen Denkmäler der Wieslandsage*. Göppinger Arbeiten zur Germanistik 490. Göppingen.
- Neiß, M., 2009. Fixeringsbilder inom en vikingatida praktspänneserie. *Aarbøger for nordisk oldkyndighed og historie* 2006.
- Neiß, M., 2010. A Matter of Standards: Iconography as a Quality Indicator for Viking Age Brooches. *Lund Archaeological Review* 15/16.
- Nerman, B., 1935. *Die Völkerwanderungszeit Gotlands*. Stockholm.
- Nerman, B., 1947. Arkeologisk datering av vendeltidens nordiska runinskrifter. *Fornvännen* 42.
- Nerman, B., 1969–75. *Die Vendelzeit Gotlands*. Stockholm.
- Ney, A., 2004. *Drottningar och sköldmör. Gränsöverskridande kvinnor i medeltida myt och verklighet ca 400–1400*. Hedemora.
- Ney, A., 2006. The edges of the Old Norse world-view. A bestiary concept? In: Andrén, A. et al.
- Ney, A., 2009. Sigurdstraditionens välvälmotiv i text och bild. In Ney, A., Jakobsson, Å. & Lassen, A. (eds.), *Fornaldarsagaerne. Myter og virkelighed. Studier i de oldislandske fornaldarsögur Norðurlanda*. Copenhagen.
- Nihlén, J. & Boëthius, G., 1933. *Gotländska gårdar och byar under äldre järnåldern*. Studier till belysning av Gotlands äldre odlingshistoria. Stockholm.
- Nilsson, L., 2007. Spännande fynd i Fröjel. *Gotlands Allehanda*, 28.7.2007. <http://www.helagotland.se/nyheter/artikel.aspx?articleid=1015268> [Accessed 2012-02-02]
- Nilsson, P., publication forthcoming. The beauty is in the act of the beholder. In Fahlander, F., Back Danielsson, I-M. & Sjöstrand, Y. (red.), *Encountering Imagery. Materialities, Perceptions, Relations*. Stockholm Studies in Archaeology 56. Stockholm.
- Noble, G. & Gondek, M., 2011. Symbol stones in context: excavation at Rhynie, an undocumented Pictish power centre of the 6th–7th centuries AD, *Medieval Archaeology* 55.
- Nordberg, A., 2006. *Jul, disting och förkyrlig tideräkning. Kalendrar och kalenderiska riter i det förkristna Norden*. Acta Academiae Regiae Gustavi Adolphi 91. Uppsala.

- Norderäng, J. & Widerström, P., 2004. Vikingatida bildstenar – några exempel på nya fynd. *Gotländskt Arkiv*.
- Nordgren, I., 2009. En nytolkning av Sparlösastenens bildmotiv. *Historieforum: tidskrift för historisk debatt* 2.
- Nordin, F., 1903. Till frågan om de gottländska bildstenarnas utvecklingsformer. In *Studier tillägnade Oscar Montelius 1903 af Lärjungar*. Stockholm.
- Nordin, F., 1906. Graffället vid Bjers i Hejnum socken, Gotland. *Antiquarisk tidskrift för Sverige* 15:3.
- Nordlund, O., 1973. Hild-segna i germansk och norrön tradisjon. *Tradisjon* 3.
- Nylén, E., 1982. Med Krampmacken över Gotland och Östersjön: seglet provas. *Gotländskt arkiv*.
- Nylén, E., 1987. De vikingatida seglen. In Björklund, A., Haaseum, S. & Kvarning, L.-Å. (eds.). *Skepp och smide*. Stockholm.
- Nylén, E. & Lamm, J.P., 1978, 1987, 2003. *Bildstenar*. 1st ed. 1978, Visby; 2nd ed. 1987, Stockholm; 3rd ed. 2003. Stockholm.
- Nylén, E. & Lamm, J.P., 1981, 1991. *Bildsteine auf Gotland*. 1st ed. 1981, 2nd ed. 1991. Both Neumünster.
- Nylén, E. & Lamm, J.P., 1986. *Gotorando no kaiga-sekihi*. Tokyo.
- Nylén, E. & Lamm, J.P., 1988. *Stones, Ships and Symbols. The Picture Stones of Gotland from the Viking Age and Before*. Stockholm.
- Nylén, E. & Lamm, J.P., 2007. *Les pierres gravées de Gotland. Aux sources de la sacréité*. Paris.
- Näsman, U. & Lund, J., (eds.) 1988. *Folkvandringstiden i Norden. En krisetid mellem ældre og yngre jernalder*. Århus.
- Nørgård Jørgensen, A., 1999. *Waffen und Gräber. Typologische und chronologische Studien zu skandinavischen Waffengräbern 520/30 bis 900 n.Chr.* Copenhagen.
- Oddrúnargrátr – see *Eddukvæði*
- Oehrl, S., 2006. *Zur Deutung anthropomorpher und theriomorpher Bilddarstellungen auf den spätwikingerveitlichen Runensteinen Schwedens*. Vienna.
- Oehrl, S., 2009. Wieland der Schmied auf dem Kistenstein von Alskog kyrka und dem Runenstein Ardre kyrka III – Zur partiellen Neuleseung und Interpretation zweier gottländischer Bildsteine. In Heizmann W. et al. (red.), *Analecta Septentrionalia. Beiträge zur nordgermanischen Kultur- und Literaturgeschichte*. Ergänzungsbände zum Reallexikon der Germanischen Altertumskunde 65. Berlin.
- Oehrl, S., 2010a. Ornithomorphe Psychopompoi im Bildprogramm der gottländischen Bildsteine. Ikonographische Auswertung des Neufundes vom Hafenplatz in Fröjel. *Frühmittelalterliche Studien* 44.
- Oehrl, S., 2010b. Der Runenfels von Aspö, die Goldbrakteaten der Völkerwanderungszeit und die Chiffren der Gott-Tier-Kommunikation. *Zeitschrift für Deutsches Altertum und Deutsche Literatur* 139.
- Oehrl, S., 2011. *Vierbeinerdarstellungen auf schwedischen Runensteinen. Studien zur nordgermanischen Tier- und Fesselungsskulptur*. Ergänzungsbände zum Reallexikon der Germanischen Altertumskunde 72. Berlin.
- Olrik, A., 1894. *Sakses oldhistorie. Norrøne sagaer og danske sagn*. Kilderne til Sakes oldhistorie 2. Copenhagen.
- O'Meadhra, U., 1987. *Early Christian, Viking and Romanesque art. Motif-pieces from Ireland*. 2. A discussion on aspects of find-context and function. *Theses and papers in North-European archaeology* 17. Stockholm.
- Padberg, L. von., 2011. Reaktionsformen des Polytheismus im Norden auf die Expansion des Christentums im Spiegel der Goldbrakteaten. In Heizmann, W. & Axboe, M. 2011.
- Panzer, F.W., 1901. *Hilde-Gudrun. Eine Sagen- und Litterargesichtliche Untersuchung*. Halle.
- Peringskiöld, J., no date. *Monumenta Sveo-Gothorum*. MS Fh 8 in the National Library of Sweden. Stockholm.
- Petré, B., 1984. *Arkeologiska undersökningar på Lovö 4. Bebyggelse-arkeologisk analys*. Studies in North-European Archaeology 10.
- Petrenko, V.P., 1991. A Picture Stone from Grobin (Latvia). *Fornvännen* 86.
- Plinius, 1997. *Om bildkonsten. Naturalis historia XXXIII–XXXVII*. Translated by Ellenberger, B. Jonsered.
- Poetic Edda, 1996. Translated by C. Larrington. Oxford.
- Rannsakningar = Stahre, N.-G. , Stähle, C.I. & Olsson, I. (eds.), 1960–98. *Rannsakningar efter antikviteter. 1–4*. Stockholm
- Raudvere, C., 2003. *Kunskap och insikt i norrön tradition – mytologi, ritualer och trolldomsanklagelser*. Vägar till Midgård 3. Lund.
- Raudvere, K., 2004. Delen eller helheten. Kosmologi som empiriskt och analytiskt begrepp. In Andrén, A., Jennbert, K. & Raudvere, C. (eds.), *Ordning mot kaos – studier av nordisk förkristen kosmologi*. Vägar till Midgård 4. Lund.
- RAÄ = Swedish National Heritage Board
- RCAHMS = Royal Commission on the Ancient and Historical Monuments of Scotland.
- Rosvall, S., 1983. *Meddelande från Klinte hembygdsförening 1983*. Klintehamn.
- Rundkvist, M., 2003a. *Barshalder 1. A cemetery in Grötlingbo and Fide parishes, Gotland, Sweden, c. AD 1–1100. Excavations and finds 1826–1971*. Stockholm.
- Rundkvist, M., 2003b. *Barshalder 2. Studies of late Iron Age Gotland*. Stockholm.
- Rydh, S., 1973. Bildstenen från Träkvista på Ekerö. *Tidskrift för nordisk fornkunskap* 15.
- Salin, B., 1904. *Die altgermanische Thierornamentik. Typologische Studie über germanische Metallgegenstände aus dem IV bis IX Jahrhundert, nebst einer Studie über irische Ornamentik*. Stockholm.
- Scandinavian Runic Text Database (electronic resource), Department of Scandinavian languages, Uppsala University. <http://www.nordiska.uu.se/forsknings/samnord.htm>
- Sandhammar, L., 2007. Unika föremål vid Herrstenen. *Gotlands Tidningar*, 28.7.2007. <http://www.helagotland.se/nyheter/artikel.aspx?articleid=1015313> [Accessed 2012-02-02]
- Sawyer, B., 1991. Viking-Age rune-stones as a crisis symptom. *Norwegian Archaeological Review* 24:2.
- Saxo Grammaticus 1931–1957. *Saxonis Gesta Danorum*. Knabe, C. & Olrik, J. (eds.). Hauniæ.
- Saxo Grammaticus 2005. *Gesta Danorum*. Danmarkshistorien. 1–2. Ed. Karsten Friis-Jensen. Translated into Danish by Peter Zeeberg. Copenhagen.
- Scheller, R.W., 1963. *A Survey of Model Books*. Haarlem.

- Scheller, R.W., 1995. *Exemplum. Model-Book Drawings and the Practice of Artistic Transmission in the Middle Ages (ca. 900 – ca. 1450)*. Amsterdam.
- Schoener, A.C. (ed.), 1928. *Der jüngere Sigenot*. Heidelberg.
- Schück, H., 1932. Två Sigurdsristningar. *Fornvännen* 1932.
- See, K. von, 1971. *Germanische Heldensage. Stoffe, Probleme, Methoden*. Frankfurt.
- See, K. von et al. 2000, *Kommentar zu den Liedern der Edda*. 3. *Götterlieder: Vqlundarkviða, Alvíssmál, Baldrs draumar, Rígsþula, Hyndlolið, Grottasqngi*. Heidelberg.
- See, K. von et al. 2004, *Kommentar zu den Liedern der Edda*. 4. *Heldenlieder: Helgakviða Hundingsbana I, Helgakviða Híorvarðssonar, Helgakviða Hundingsbana II*. Heidelberg.
- SHM = The National Historical Museum, Stockholm.
- Sichtermann, H., 1983. Der Jonaszyklus. In Beck, H. & Bol, P. C. (eds.), *Spätantike und frühes Christentum*. Frankfurt.
- Sigurdrífumál – see *Eddukvæði*.
- Simek, R., 1993. *Dictionary of Northern Mythology*. Cambridge.
- Skjaldedigtning = Finnur Jónsson (ed.), 1912–15. *Den Norsk-Islandske Skjaldedigtning*. A 1–2. B 1–2. Copenhagen.
- Snorres Edda, 1997 = Johansson, K.G. & Malm, M. (ed.), 1997. *Snorres Edda*. Translated into Swedish. Stockholm.
- Snorri Sturluson 1931 = Finnur Jónsson (eds.), 1931. *Edda Snorra Sturlusonar. Udgivet efter håndskrifterne*. Copenhagen.
- Snorri Sturluson 1987 = Faulkes, A. 1987. *Snorri Sturluson – Edda*. Translated and introduced. London.
- Snorri Sturluson, 2005 = *The Prose Edda*. Translated by J.L. Byock. London.
- Snædal, Th., 2002. *Medan världen vakar. Studier i de gotländska runinskrifternas språk och kronologi*. Runrön 16. Uppsala.
- Snædal Brink, Th. & Jansson, I., 1983. Gotländska runinskrifter. 900-talets slut – ca 1100. In Jansson, I. (ed.) *Gutar och vikingar. Historia i fackformat*. Stockholm.
- Spector, J.D., 1993. *What this awl means. Feminist Archaeology at a Wahpeton Dakota Village*. St. Paul, MN.
- Srigley, M., 1989. The Dream of Troy. An Interpretation of the Gotland Picture-Stones of the Late Vendel and Viking Periods. *Tor. Tidskrift för nordisk fornkunskap* 22.
- Staecker, J., 2002. The woman on the wagon. Pagan Scandinavian burials in a Christian perspective. *Viking Heritage magazine* 2002:1.
- Staecker, J., 2004. Hjältar, kungar och gudar. Receptionen av bibliska element och av hjältdiktning i en hednisk värld. In Berggren, Å. et al. (eds.), *Minne och myt. Konsten att skapa det förflutna*. Vägar till Midgård 5. Lund.
- Staecker, J., 2006. Heroes, kings and gods. Discovering sagas on Gotlandic picture-stones. In Andren, A. et al. (eds.).
- Stefán Einarsson 1936. Wíðsið = Viðförull. *Skírnir* 110.
- Stenberger, M., 1964. *Det forntida Sverige*. Stockholm.
- Stenberger, M. & Klindt Jensen, O., (eds.) 1955. *Vallhagar*. 1–2. Copenhagen.
- Stefán Einarsson 1936. Wíðsið = Viðförull. *Skírnir* 110.
- Stiegemann, Ch. & Wemhoff, M., 1999. 799. *Kunst und Kultur der Karolingerzeit. Karl der Große und Papst Leo III. in Paderborn*. Ausstellungskatalog 1–2. Mainz.
- Stoklund, M., 1996. The Ribe cranium inscription and the Scandinavian transition to the younger reduced futhark. In Looijenga, T. & Quak, A. (eds.), *Frison Runes and neighbouring Traditions. Proceedings of the First International Symposium on Frisian Runes at the Fries Museum, Leeuwarden 26–29 January 1994, Amsterdamer Beiträge zur älteren Germanistik* 45.
- Stoklund, M., 2004. The Runic Inscription on the Ribe Skull Fragment. In Bencard, M., Kann Rasmussen A. & Brinch Madsen, H. (eds.), *Ribe Excavations 1970–76*. 5. Højbjerg.
- Stuttgarter Bilderpsalter, 1965. *Der Stuttgarter Bilderpsalter*, Württembergische Landesbibliothek Stuttgart Bibl. Fol. 23. 1. Facsimile-Band. Stuttgart.
- Sveriges runinskrifter Utg. av Kungl. Vitterhets Historie och Antikvitets Akademien 1–. Stockholm. (Also available on the internet: <http://www.raa.se/kulturarvet/arkeologi-fornlämningar-och-fynd/runsterner/digitala-sveriges-runinskrifter/>)
- Svärdström, E., 1967. Runfynd 1966. *Fornvännen* 61.
- Svärdström, E. 1978. *Gotlands runinskrifter*. 2. Sveriges runinskrifter 12. Stockholm.
- Swanström, E., 2009. Erik B Lundberg, S:t Hans och S:t Pers ruiner i Visby eller ett arkeologiskt äventyr med osannolika resultat. In Svensson, T. et al. (eds.), *Spaden och pennan. Ny humanistisk forskning i andan av Erik B Lundberg och Bengt G Söderberg*. Stockholm.
- Swanström, L., 1995. Slipskårer och järnhantering på Gotland. *Gotländskt Arkiv*.
- Sången om Sigdriva – see *Den poetiska Eddan*
- Sävborg, D., 2004. Om eddadikternas ursprung och ålder. Gamla och nya tankar. *Arkiv för nordisk filologi* 119.
- Säve, C., 1845. Tjängvide-stenen. På Gotland. *Runa. Antiquarisk tidskrift utgiven af Richard Dybeck*. Stockholm.
- Säve, C., 1852. Alskogs-stenarne på Gotland. *Annaler for nordisk oldkynighed og Historie*.
- Säve, P.A., Reports of the Superintendent of Antiquities 1863 and 1864 and various communications to Kungl. Vitterhets Historie och Antikvitets Akademien 1850–1856. ATA, Gotländska Samlingar (6 volumes) and manuscript in the University Library, Uppsala.
- Sö = Inscription number in *Södermanlands runinskrifter*, see Brate & Wessén 1924–1936.
- Sörla þattr 1829 = Rafn, C.C. (ed.), 1829. *Fornaldar sögr Nordrlanda eptir gömlum handritum*. 1. Copenhagen.
- Tacitus, 1999. *Agricola and Germany*. Translated with an introduction and notes by Anthony R. Birley. Oxford.
- The Mabinogion, 2000. Translated by Gwyn Jones and Thomas Jones. London.
- Thunmark-Nylén, L., 1995a. Spännekonstruktion och spänneproduktion. In Resi, H.G. (ed.), *Produksjon og samfunn. Om iververv, specialisering og bosetning i Norden i 1. årtusen e.Kr.* Oslo.
- Thunmark-Nylén, L., 1995b. *Die Wikingerzeit Gotlands I. Abbildungen der Grabfunde*. Stockholm.

- Thunmark-Nylén, L., 2000. *Die Wikingerzeit Gotlands IV*. Katalog. Stockholm.
- Thunmark-Nylén, L., 2006. *Die Wikingerzeit Gotlands III*, 1–2. Text. Stockholm.
- Trotzig, G., 1970. En arkeologisk undersökning i Garda kyrka på Gotland. *Fornvännen* 65.
- U + No. = Inscription number in *Upplands runinskrifter*, see Wessén & Jansson 1940–1958.
- Vaitkevicius, V., 2004. *Studies into the Balts' sacred places*. BAR International series 1228. Oxford.
- Varenius, B., 1992. *Det nordiska skeppet. Teknologi och samhällsstrategi i vikingatid och medeltid*. Stockholm Studies in Archaeology 10. Stockholm.
- Varenius, B., 2004. Bildstenar och deras uttolkare. *Fornvännen* 99.
- Vg + No. = Inscription number in *Västergötlands runinskrifter*, see Jungner, H. & Svärdström, E. 1940–1970.
- Vries, J. de, 1956–57. *Altgermanische Religionsgeschichte*. 1–2. Grundriss der germanischen Philologie 12:1–2. Berlin.
- VZG = Nerman 1935.
- Völsunga saga* – see Guðni Jónsson.
- Völsungasagan*. 1991. Transl. into Swedish by Knutsson, I., introduction by Bergsten, S. Lund.
- Wallin, G., 1736–46. *Analecta Gothlandensia*. MS in The National Library of Sweden, Stockholm.
- Wallin, G., 1749/1751. Runographia Gotlandica. *Acta Societatis Regiae Scientiarum Upsalensis* 1743 (published in 1749), 1744–50 (published in 1751).
- Wamers, E., 2009. Von Bären und Männern. Berserker, Bärenkämpfer und Bärenführer im frühen Mittelalter. *Zeitschrift für Archäologie des Mittelalters* 37.
- Werner, J., 1941. *Die beiden Zierscheiben des Thorsberger Moorfundes*. Berlin.
- Wennersten, M., 1973. Bildstensundersökning vid Visnar Ängar i Alskog. *Gotländskt Arkiv*.
- Wessén, E. 1957. *Om vikingatidens runor*. Filologiskt arkiv 6. Stockholm.
- Wessén, E. & Jansson, S.B.F. 1940–1958. *Upplands runinskrifter*. 1–4. Sveriges runinskrifter 6–9. Stockholm.
- Westphal, F., 2004. Untersuchungen zur späten Bildsteingruppe Gotlands. In Müller-Wille, M. (ed.). *Zwischen Tier und Kreuz. Untersuchungen zur Wikingerzeitlichen Ornamentik im Ostseeraum*. Neumünster.
- W & G = Nørgård Jørgensen, A. 1999.
- Wickham, C., 2005. *Framing the early Middle Ages. Europe and the Mediterranean 400–800*. Oxford.
- Wilson, D.M. (ed.), 1995. *Vikingatidens konst. Signums svenska konsthistoria* 2. Lund.
- Wilson, D., 1998. The Gotland Picture-Stones. A Chronological Re-Assessment. *Studien zur Archäologie des Ostseeraums. Von der Eisenzeit zum Mittelalter*. Neumünster.
- Wisniewski, R., 1969. *Kudrun*. 2nd edition. Stuttgart.
- WKG = Thunmark Nylén 1995–2006.
- Wolfram, H., 1979. *Geschichte der Goten. Von den Anfängen bis zur Mitte des sechsten Jahrhunderts. Entwurf einer historischen Ethnographie*. München.
- Zeumer, K., 1886. *Formulae Merowingici et Karolini Aevi*. MGH, Legum Sectio V. Formulae. Hannover.
- Zola, E., 1866. *Mes Haines*. Paris.
- Äijä, K., 1980a. Gravfältet vid Uddvide i Grötlingbo. *Gotländskt Arkiv*.
- Äijä, K., 1980b. *Bearbetade sandstenar i förhistoriska gravar på Gotland*. Graduate thesis in archaeology, Stockholm University.
- Ög + No. = Inscription number in *Östergötlands runinskrifter*, see Brate 1911–18.
- Ög N + No. = Inscription number in unpublished supplement to *Östergötlands runinskrifter* by A. Nordén (Manuscript in ATA.)
- Örn Sævar Thorleifsson, 2000. *Brage. Dikt og tidsånd*. Oslo.