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6 Site Periods and Key Contexts

The traces of human presence at Avaldsnes date back to the Mesolithic; the character and extent of human impact on the site have varied through the many intervening millennia to present. The few scattered Stone Age artefacts that have been retrieved in Iron Age contexts supply scant information on the nature of the earliest human presence. Gradually, however, towards the Bronze Age, and increasingly through the Iron, Viking, and Middle Ages, the preserved remains consist of artefacts and as well as remains of buildings, graves, and deposits, revealing far more detailed information regarding the character of activities taking place at the Avaldsnes headland. To describe an overall phasing of the site, we have identified significant changes in these activities that define the transition from one phase to another. The result of the phasing is the identification of seven site periods (SP I–VII) that span the late Neolithic to c. AD 1900. This chapter serves as an introduction to the 2011–12 Avaldsnes Royal Manor Project excavations, presenting an overview of the excavation results and underlining the main contexts and findings that define the seven site periods and the transitions between them.

Significant changes in human activities at Avaldsnes allow the identification of seven chronological phases, which we call site periods (SP). The types of changes that define the transition between site periods are manifested within one or several of the categories that the Avaldsnes Royal Manor (ARM) Project excavations were intended to investigate (Skre, Ch. 4): the types and numbers of buildings, the character of the settlement, the layout and location of the farmyard, the functions and activities in buildings and farmyard, graves and monumentality, and agricultural strategies. The site periods are of varying duration, and though they are quite clearly defined, they are not absolute in the sense that changes occur simultaneously within all the categories. Some activities, individual features, or developments transcend site period limits, but based on the categories that the excavation aimed at identifying, we do not consider such overlap significant enough to merit division into additional site periods.

Redeposited lithic artefacts were found in agricultural and cultural deposits, cooking pits, and various other types of Iron Age features scattered across most of the excavated areas. The artefacts include a microlith, flakes, microblades, and various types of cores, indicating that the artefact assemblage likely represents several separate events spanning most of the Mesolithic to the late Neolithic (Østmo, Ch. 20:526). A cultural deposit believed to be related to a Mesolithic or Neolithic settlement was recorded but not excavated in 1993. This is the only identified Stone Age cultural deposit, and since the remaining lithic material lacks contemporary contexts and offers inconclusive and sporadic evidence of early human presence at Avaldsnes, the lithic material alone cannot serve to define a separate site period. The lack of Stone Age contexts is affected by the ARM excavation's focus on areas with most potential for settlement remains from the Iron Age in general and the Viking Age in particular. Pre-

viously recorded Mesolithic or early Neolithic settlement sites in the vicinity provide a more nuanced understanding of the use of the landscape in various parts of the Stone Age. Relevant sites include the pioneer settlement from the early Mesolithic at Uvik, 0.5 kilometres from Avaldsnes (Bang-Andersen 1988:41; Gjerland 1989; Hernæs 1997:3–4, 26; Fuglestedt 2012:17), various Mesolithic and Neolithic settlement sites at Husøy, 1.5 kilometres from Avaldsnes (Hatleskog 1992), and two wetland offerings, one of them containing two flint daggers and more than 300 flint artefacts, at Uvik, 0.85 kilometres from Avaldsnes (Gjerland 1989:43; Hernæs 1997:39–42). The activities at the Avaldsnes headland become more tangible as the landscape was cleared around 2000 BC, permitting the definition of the site periods which are presented in the following. This chapter is based on more detailed discussions with relevant references elsewhere in this volume; see internal references for details.

6.1 Site Period I: c. 2000–c. 350 BC

SP I spans the longest duration of the seven and is characterised by the introduction of agriculture followed by agricultural practices comprising husbandry and relocating fields. There are no excavated dwelling remains from SP I, but the remains of what is believed to be an economic building and the first phases of the Kjellerhaug grave mound, probably also the Flaghaug mound, can be dated to this period (Fig. 6.1).

Around 2000 BC (Beta-333051), the earliest identified indication of land-clearing is represented by patches of a deposit containing charcoal likely originating from the burning of trees and brushwood; the dated sample was taken from an assumed burnt surface back-filling the void from a removed stone in Area 6, beneath the Kjellerhaug mound. A similar deposit containing charcoal believed to represent the same burnt surface formed the bottom of an animal-induced colluvial build-up captured in a section three metres further north-east, thus associating the earliest land-clearing to husbandry. Similar deposits with charcoal inclusions indicating land-clearing were found in other parts of the site, some providing slightly later dates, for instance in the central part of Area 2 and on the site of the Nordvegen History Centre. Tilled soils, combined with a dated deposit in the pollen sequence from Profile 13016 (Fig. 6.1; Macphail and Linderholm, Ch. 17), indicate well-established cereal cultivation of both wheat and barley and fertilisation in the 12th century BC at the latest (Beta-347958). Stratigraphically older deposits in the same pollen sequence show that the cultivation of barley was established even earlier. Based on stratigraphic relations, the pollen sequence seems to reflect agricultural practices from some time before the 12th century BC until around the 2nd century BC, providing indications of a system by which fields and pastures were periodically relocated. Compared to SP II, fields appear to have been fairly small.

The practice of relocating fields seems to have included periods of intensified cultivation, for example the fertilised deposit documented in layer 3 in Profile 13016. The sequence of deposits in Profile 13016 is similar to the sequence documented in Profile 15653 (Fig. 6.1; Bauer and Østmo, Fig. 8.2), which comprised deposits containing remains from burning, probably from land-clearing, pasture and possible cultivation around 1600 BC (Beta-304878). Still, the development in the areas around the two profiles differs with regard to an early deposit indicating intensified and fertilised cultivation as seen in layer 3 of Profile 13016. Such a deposit was not visible in Profile 15653. Such early traits were possibly not detected, truncated by later activity, or determined to be a later development in this part of the field.

No SP I dwellings were identified, though they are assumed to have been present in close vicinity of the fields. Several postholes in Area 5 have radiocarbon dates from the late Neolithic, but these dating results are believed to stem from redeposited charcoal from older features. Only a single posthole is believed to have a Neolithic radiocarbon date not influenced by pollution from redeposited charcoal; this posthole is visible in the bottom of the stratigraphic sequence in Profile 15653 (A10500, TRa-4226).

A simple economic building or other type of construction (A11) from the middle part of SP I was excavated in Area 2, 3.5 metres east of posthole A10500, supporting the assumption of the presence of settlement at the Avaldsnes headland in this period. A11 was sealed between two dated cultivation deposits, which provide the rough dating of the construction to a 1000-year span (Beta-304878, TRa-4231). Other building remains from SP I may also be concealed outside of excavated and surveyed areas.

Two grave monuments can be dated to SP I: the earliest phases in the Flaghaug and Kjellerhaug grave mounds (Østmo and Bauer, Ch. 12:231–42; regarding Flaghaug: Stylegar and Reisersen, Ch. 22:552–66). Only small sections of the Kjellerhaug mound were excavated; no burials were identified, nor were any artefacts or organic construction elements suitable for radiocarbon dating found. Nevertheless, the stratigraphic relations to surrounding dated features provide some information as to the possible date range for the mound's construction. A charcoal-mixed deposit beneath the central part of the mound dated to the 18th–17th centuries BC (Beta-333050) provides a *terminus post quem*, while barley grain in a charcoal concentration within the mound make-up gives a *terminus ante quem* to the 8th–6th centuries BC for the two eldest construction layers with respective stone rows, though it remains unclear whether these represent contemporary construction elements or chronological sequences within this time frame. The mound was subject to subsequent use, probably in SP II and III (below).

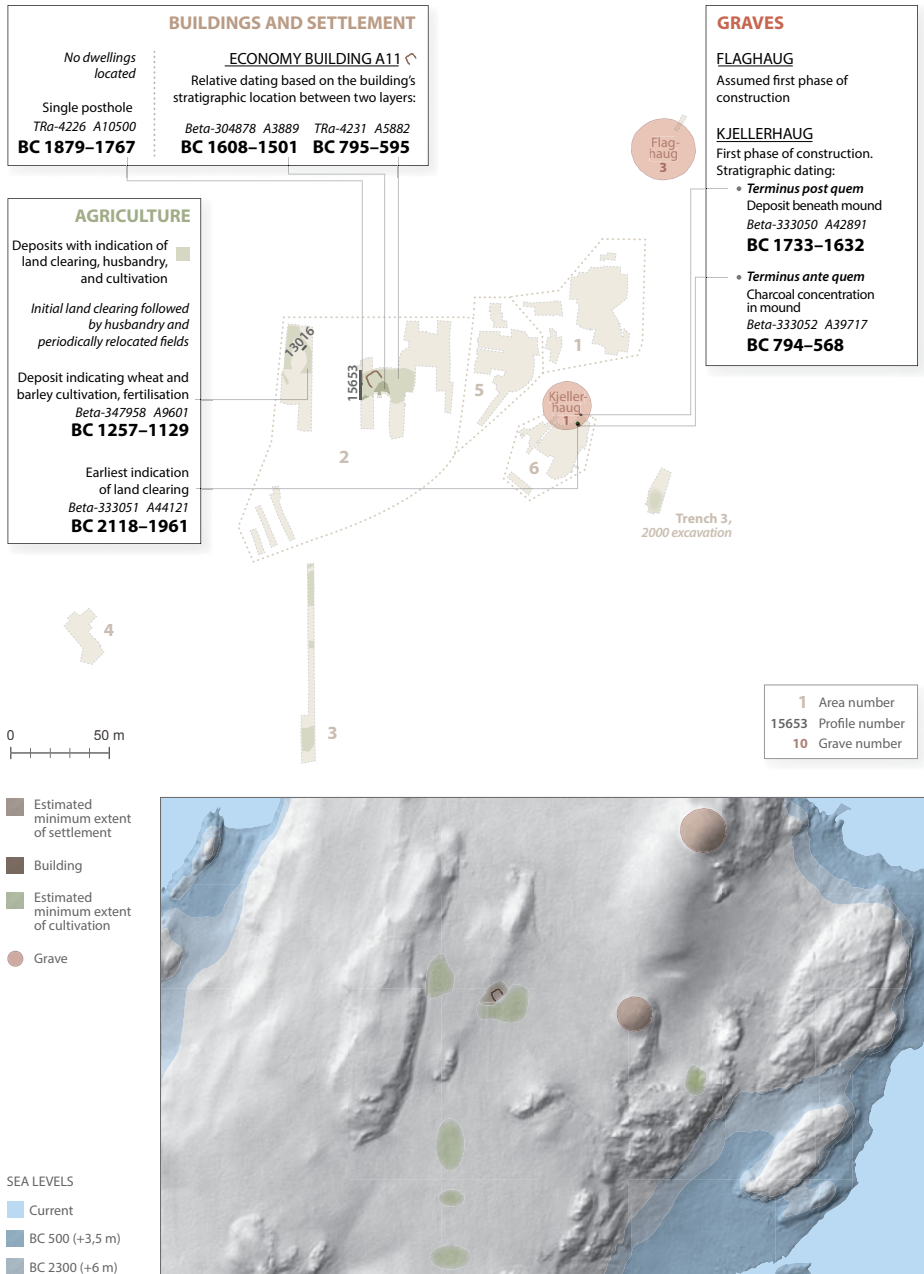


Fig. 6.1: Main features dated to Site Period I. Key contexts and radiocarbon dates mentioned in the text are labelled in the upper map; an overall interpretation of the land use and spatial organisation within SP I is presented in the lower. Numbering of graves refer to map key in Østmo and Bauer, Fig. 12.1 and Tab. 12.1. Illustration: I. T. Bøckman, MCH.

6.2 Site Period II: c. 350 BC–AD 200

In SP II, cultivated fields were expanded, buildings were possibly raised in Area 3, and the practice of preparing food in cooking pits was established. This period is also distinguished by a stone-packed cremation pit grave east of the Kjellerhaug grave mound, as well as possible secondary use of this mound (Fig. 6.2).

Previously small, temporary cultivated patches were consolidated into a large, continuous field covering Area 2 and extending into Area 5, possibly also into Areas 3 and 4. This change can be seen from the increased colluvial build-up in Area 2, visible in Profile 15653 (Bauer and Østmo, Fig. 8.3). The colluvial deposits immediately overlie two SP I deposits that represent initial land-clearing, pasturage, and possibly cultivation in the early Bronze Age (Beta-304878) and late Bronze Age (TRa-4231), indicating subsequent intensified and fertilised cultivation beginning at some point in the last two centuries BC (TRa-4230). Also, near the cluster of cooking pits immediately east of the Kongshaug ridge, a previous clearing cairn that likely marked the former southern border of a small cultivated patch was removed, leaving behind depressions in the ground that were back-filled with cultivation deposits from subsequent cultivation. The back-fill in one of these depressions was radiocarbon dated to the beginning of SP II (TRa-4213), providing a *terminus post quem* date for the consolidation of periodically relocated cultivated patches into a larger, permanently cultivated field. This does not provide a very precise dating of the cultivation and enlargement of the field, as it is unknown how long the charcoal had been circulating in the cultivation deposit before its secondary deposition. However, the stratigraphic relationship between removed cairns and the dated cooking pits in the area confirms the approximate dating to early SP II. Both the permanence and the enlargement must have resulted in a larger output from cultivation. This development forms a characteristic trait that contributes to defining the transition from SP I to SP II. The cultivated area was extended into the westernmost part of Area 5. Husbandry continued to be an important part of the farm's subsistence; in early SP III turf used as building material in the boathouse A40 indicates grazing in the area prior to its construction, that is, in SP II.

The introduction of cooking pits dug into cultivation deposits is another trait characteristic of SP II, and the practice continues through SP III. Seven cooking pits have been dated to SP II, the majority to the period's first part, such as a cooking pit in Area 5 dated to the beginning of SP II, relatively contemporaneous to the removal of the above-mentioned clearing cairn (Beta-319015). Twelve cooking pits, four of which have been dated to SP II, lay in the western part of Area 2 (Bauer, Ch. 13), near the Kongshaug ridge, where settlement remains also appear to be concentrated. Three of the SP II cooking pits have radiocarbon dates stretching into SP III, during which period most of the cooking pits were dug. In addition to the cluster of cooking pits in the western part of Area 2, three single SP II cooking pits lay in different parts of the site: in Areas 2, 5, and 6.

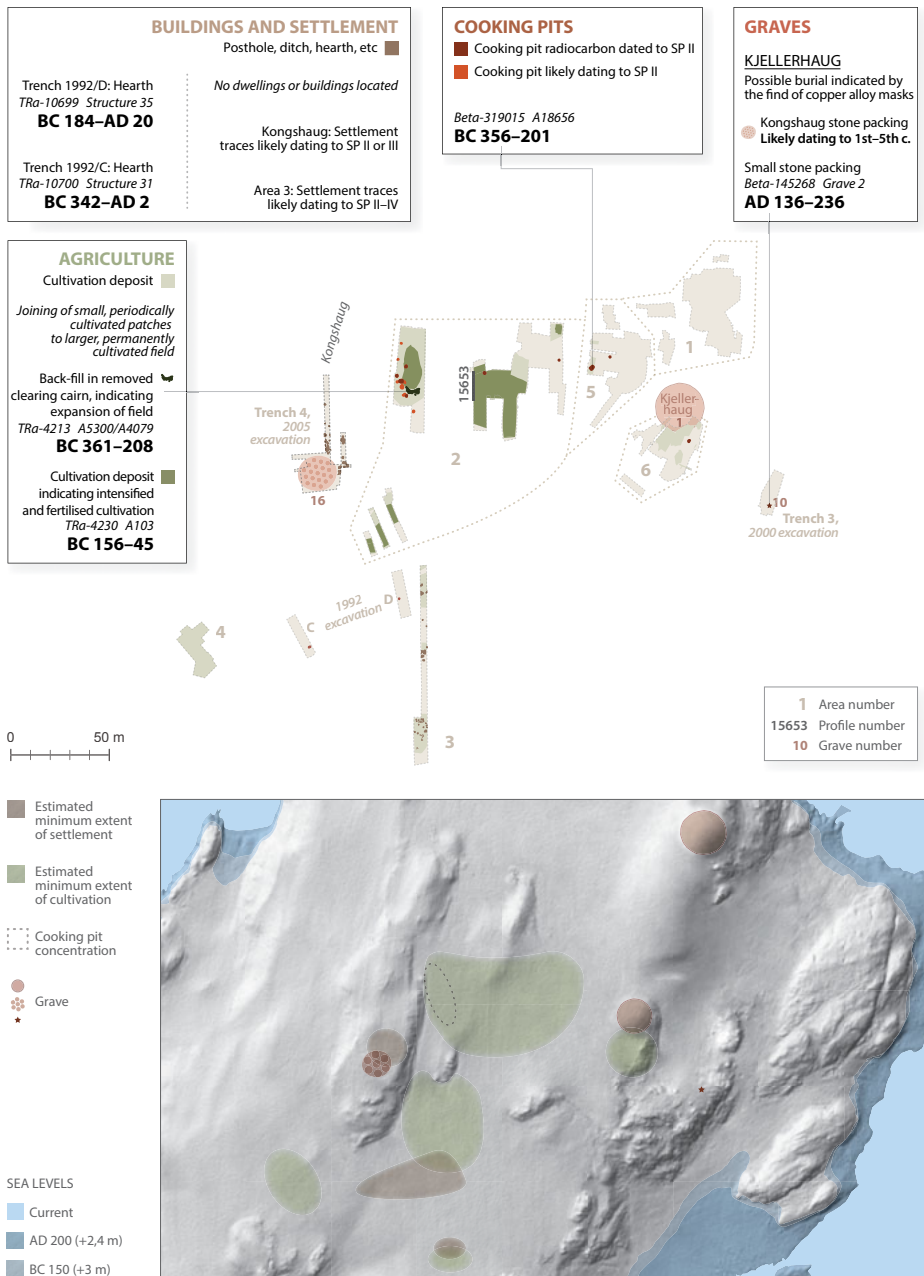


Fig. 6.2: Main features of Site Period II. Key contexts and radiocarbon dates mentioned in the text are labelled above; an overall interpretation of the land use and spatial organisation within SP II is presented in the lower. Due to intercutting/truncation in Area 5, some cooking pits may contain charcoal from neighbouring pits; while this may affect the dating of the individual pits, it still reflects the actual dating of this use of the area in SP II. Numbering of graves refer to map key in Østmo and Bauer, Fig. 12.1 and Tab. 12.1. Illustration: I. T. Bøckman, MCH.

No remains of dwellings or other types of buildings from SP II were identified during the ARM surveys or excavations, though possible building remains were found during the 2005 survey at Kongshaug and in the 1992 survey around Area 3. Based on their stratigraphic relationship to a Roman Iron Age grave, these remains at Kongshaug likely date to SP II, although they could date as far back as to SP I. The postholes and dated hearths in Area 3 make this also a possible location of a settlement in SP II. Because the ARM research focus is on the first millennium AD, excavation of these remains was not prioritised. Although the identification as building remains is tentative, settlement on the headland is indirectly indicated by remains of agricultural practices as well as observations of latrine dumping in deposits predating the SP III settlement and graves in the area (Østmo and Bauer, Ch. 7; Macphail and Linderholm, Ch. 17). As for SP I, it may be assumed that the settlement in SP II was located outside of the areas excavated by ARM, and that the settlement was not organised in a well-defined farmyard similar to the one established in the following SP III.

Two bronze masks, meant to decorate a cauldron or other object tentatively dating to the pre-Roman Iron Age or the late Iron Age, were found at Avaldsnes in the early 19th century. The artefacts' relation to the Kjellerhaug grave mound is suggested by Stylegar (et al. 2011). Although no burial dating to that period was identified in the excavated parts of the mound, they may have existed elsewhere in the mound. The mound's construction is complex with several phases, as is the Flaghaug mound roughly 100 metres further north (Stylegar and Reiersen, Ch. 22; Østmo and Bauer, Ch. 12). Three cremation burials, one of which was dated to the transition between SP II and III (Beta-145268), were found east of the Kjellerhaug grave mound (10, Fig. 6.2; Østmo and Bauer, Ch. 12:245). These were simple, shallow, circular stone-packed pits containing charcoal and burnt bones; all contained animal bones, and two also contained human or likely human bones (Sjurseike 2001:6, 8). The two remaining cremation burials were dated to SP III (Beta-145269, Beta-133887), indicating that the use of the area for burials was likely established in late SP II but maintained for centuries.

6.3 Site Period III: c. AD 200–600

In SP III, the site had a clear and structured spatial organisation and a monumental manifestation of power, represented by secondary phases and possible enhancements of the existing Kjellerhaug and Flaghaug grave mounds, new grave monuments such as the raised stones by Flaghaug, possibly also at Kongshaug, and hall building A10. All of these features were clearly visible from the strait to the east. Distinct zones may be identified, respectively, for cultivation, monumental graves, cooking pits, production and processing, dwelling and hall, and boathouses (Fig. 6.3). The activities in the three latter zones have not been securely identified before SP III, while those of the three former were initiated in SP I–II and culminate in SP III. The farmyard

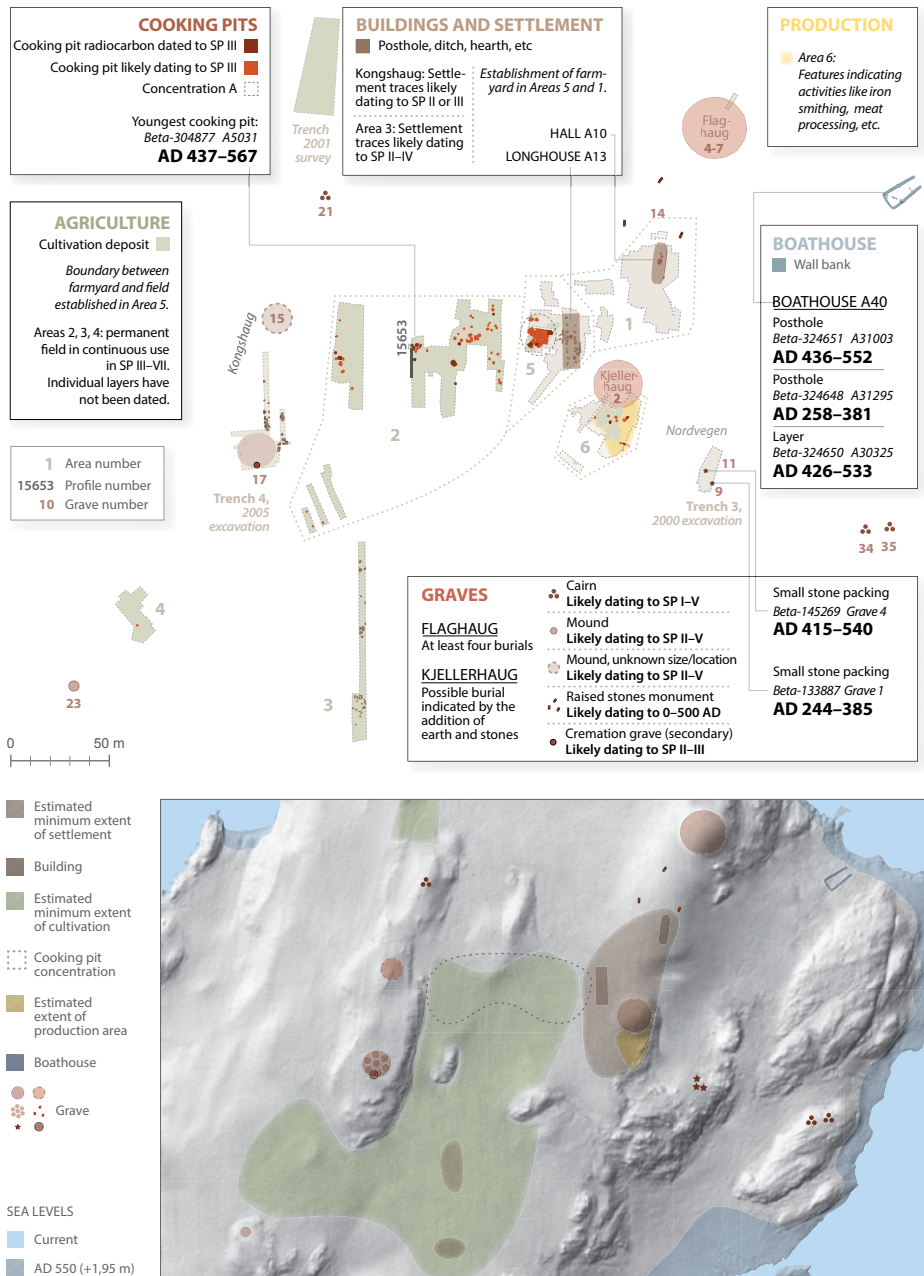


Fig. 6.3: Main features of Site Period III. Key contexts and radiocarbon dates mentioned in the text are labelled above; an overall interpretation of the land use and spatial organisation within SP III is presented in the lower. Numbering of graves refer to map key in Østmo and Bauer, Fig. 12.1 and Tab. 12.1. Illustration: I. T. Bøckman, MCH.

(longhouse, hall, and production area) established early in SP III continued to be in use through SP IV–VI.

The cultivation continued within a slightly increased area that covered the western half of Area 5. In the central part of Area 5 a boundary was established between the field to the west and a designated farmyard to the east. The border is seemingly not physically marked at this stage, but seems to be maintained throughout the entirety of SP III. In Area 2, the build-up of colluvial deposits around Profile 15653 continued. The field seems to have been permanent and in continuous use, as the micromorphology samples from the cultivation deposits show little evidence of periods of disuse or reestablishment of grass turfs.

Numerous cooking pits were dug into cultivation deposits in Areas 2 and 5. The cooking pits in Area 5 formed a concentration of such features (concentration A in Bauer, Fig. 13.1) close to the settlement and farmyard. The radiocarbon dates show that cooking pits were used throughout SP III, the youngest slightly predating AD 600 (Beta-304877).

The establishment of a defined farmyard in SP III is attainable first and foremost through the remains of two buildings: A10 and A13. Few features from A10 were preserved. This building was located to the north-east in Area 1, at the top of the slope towards the sea, and thus was clearly visible from the strait. The building remains comprised a hearth and a wall ditch; radiocarbon dates from hearth and ditch indicate use from the mid or late 3rd century until the early 5th century AD, that is, the first half of SP III. This period for A10 partially overlaps with the use of a three-aisled longhouse (A13) in Area 5. The latter building contained features radiocarbon dated to the entire SP III. However, the earliest 14C dates from the hearth are probably due to the significant input of large oak logs in the fuel selection (the “old wood” problem is discussed in detail in relation to longhouse A13 in Østmo and Bauer, Ch. 7:128). Other features in longhouse A13 date to the 4th century onwards, and the longhouse probably belongs to the latter part of SP III.

The area between the buildings was too truncated to permit any conclusions regarding the activities taking place there in SP III. However, Area 6 is another defining aspect of the SP III farmyard, situated immediately south-east of A13 and dedicated to production activities such as iron smithing resulting in slags from primary and secondary processes. Other types of activities include what was likely smoking or curing of meat in a low-temperature oven. Furthermore, there were microstratigraphic indications of crafts using ashy fluxes. Parallel to some of these processes, waste was dumped there.

Several graves date to SP III, of which those in the Flaghaug grave mound are the most prominent (Østmo and Bauer, Ch. 12:231–5; Stylegar and Reiersen, Ch. 22:564–6). In what originally appears to have been a Bronze Age grave mound, at least four burials were interred in SP III (4–7, Fig. 6.3). The well-furnished of these dates to the 3rd century, the first part of SP III. The raised stone monument just south-west of Flaghaug most likely was built in the first part of SP III (14, Fig. 6.3; Skre, Ch. 23:663);

similarly, an addition of earth and stones in the south-western part of the Kjellerhaug grave mound that lay atop a piece of plano-convex slag likely originated from the SP III iron smithing immediately south of the mound. In addition to these three monuments there are the two above-mentioned cremations east of Kjellerhaug grave mound (9, 11, Figs. 6.3 and 12.1), 14 recorded grave mounds or cairns across the Avaldsnes headland (15, 21, 23–35, Fig. 6.3), as well as the already mentioned stone packing dated to SP II or III with a secondary cremation burial at its southern end (16–17, Fig. 6.3) at Kongshaug. The mounds are believed to be of an SP III–IV origin, while it is possible that some of the cairns date to the Bronze Age.

In Area 8, boathouse A40 was built in the first half of SP III, possibly as early as the late 3rd century (Beta-324648). The boathouse was rebuilt or adjusted in late SP III, in the 6th century (Beta-324650, Beta-324651). The boathouse originally had room for a 20-metre long rowing ship.

The hearths in A10 and A13 as well as the more prominent cooking pits located closest to the farmyard were fuelled with oak logs. Compared to the mixed fuel assemblages in other contexts, the structured selection of oak fuel is possibly an example of conspicuous consumption, due to this valuable construction material likely being scarce in Kormt in this period (for other possible explanations regarding the fuel selection addressed in this volume, see Østmo and Bauer, Ch. 7:125, 132–3; Ballantyne et al., Ch. 19:480–1). As such, the fuel selection supplements the image of a magnate farm comprising a central settlement area with two buildings clearly visible from the strait surrounded by a boathouse for a vessel with military potential, at least three monumental tombs, and a production area, as well as a large cultivated field.

6.4 Site Period IV: c. AD 600–900

Some aspects of the spatial organisation of the site that became fixed in SP III continue into SP IV. However, adjustments to this organisation were made, such as a possible relocation of dwellings, the designation of Area 6 mainly for food processing and storage, and the construction of a palisade on the eastern edge of the settlement plateau (Fig. 6.4).

The archaeological record indicates substantial changes from around AD 600, including the lack of substantial dwelling remains within the excavated areas. Although building remains from the 7th–8th centuries are found in western Norway, the period is characterised by a smaller number of identified buildings compared to the preceding Roman Iron Age and Migration Period. However, it appears that the Avaldsnes farmyard continued to be used, and the border towards the infield was maintained. Indirect indications of settlement make it likely that dwellings were located close by, but outside of the excavated areas or in areas that were heavily truncated in later periods, thus removing any trace of dwellings or other buildings. Boat-

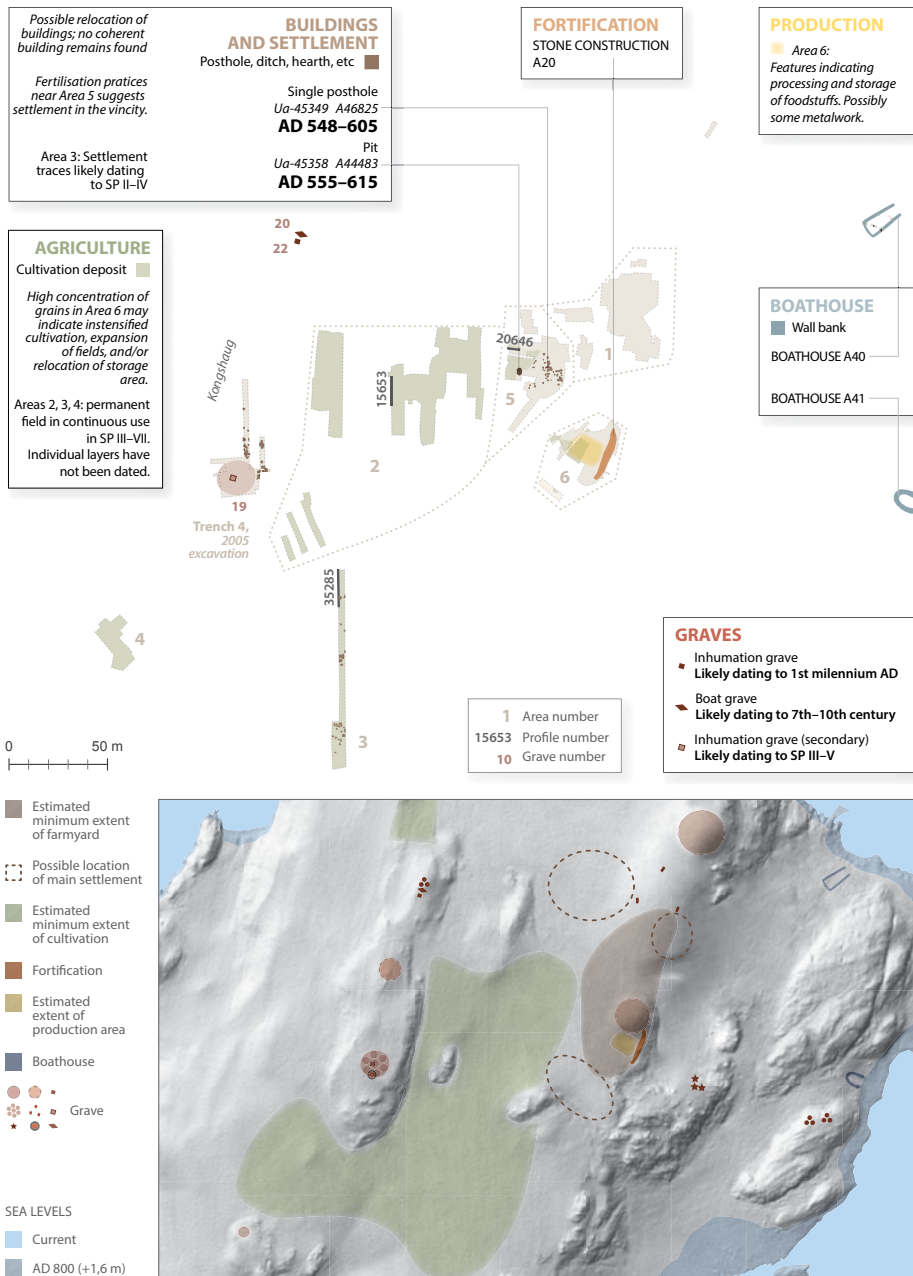


Fig. 6.4: Main features of Site Period IV. Key contexts and radiocarbon dates mentioned in the text are labelled above; an overall interpretation of the land use and spatial organisation within SP IV is presented in the lower. Numbering of graves refer to map key in Østmo and Bauer, Fig. 12.1 and Tab. 12.1. Illustration: I. T. Bøckman, *MCH*.

house A40 fell out of use by the first decades of the 7th century, simultaneous to the construction of a new, smaller boathouse (A41).

SP IV also sees production processes in Area 6, but the activities change from a varied production to more dedicated processing and storage of foodstuffs. Geochemical indications of low-scale brass work could belong to SP IV or V, though the activity cannot be stratigraphically connected to any specific phase (Cannell et al., Ch. 18:451; Østmo, Ch. 9:176–7). The character of Area 6 also changed to that of an enclosed and protected area as a result of the building of a large stone construction (A20) constituting the base of a palisade on the eastern edge of the plateau.

The continued cultivation from SP III, through SP IV, and up to modern times can be observed in Profile 15653 in Area 2, Profile 35285 in Area 3, and Profile 20646 in Area 5 (Bauer and Østmo, Figs. 8.3, 8.5–6). The cultivation deposits do not indicate any changes during SP IV regarding the cultivated area's extent, intensity, or methods of cultivation. The high concentrations of grain in Area 6 could however indicate intensified cultivation or extension of the cultivated area, or alternatively a relocation of grain processing compared to earlier Site Periods; the two are not mutually exclusive. Probably, the changes in activities in Area 6 coincided with the construction of palisade A20 during the first half of the 7th century. Features lying under A20 have radiocarbon dates ending c. AD 600. Waste deposits containing latrine dumping seem to be part of an activity parallel to and partially post-dating the SP III production, likely ending around AD 600 or shortly thereafter. The earliest grain-rich features date to the mid-7th century and are located west of A20. In addition to grain processing, there are indications in Area 6 of food preservation by means of seaweed ash. This activity may have begun a little earlier as some fragments are found in SP III features.

Food processing and storage appears to be one of the activities and resources that the palisade was intended to protect. The lack of other SP IV remains above the palisade remains may indicate that it was in use throughout SP IV. The placement of such a palisade on a geological scarp with a vista over the Karlsund strait would also have added to the monumental façade of the settlement towards seafaring travellers.

Other manifestations of ritual and power dated to this period include a boat grave, an assumed inhumation grave without visual marking that lacks secure dating, and a secondary inhumation in the stone packing at the Kongshaug ridge (20, 22, 19, Fig. 6.4; Stylegar and Reiersen, Ch. 22; Østmo and Bauer, Ch. 12). Except the older cairn and the stone packing, the graves at the Kongshaug ridge do not have visual markers above ground today, but whether this was the case originally is unknown. As mentioned under SP III, several of the graves at Kongshaug and other possible grave mounds across the Avaldsnes headland have not been dated by radiocarbon or artefacts and are of an assumed Iron Age origin.

Several building remains in Area 5 do not form any coherent buildings. A waste pit and a posthole are radiocarbon dated, with the dating spectrum stretching into the earliest part of SP IV (Ua-45358, Ua-45349). Although clear SP IV building remains have not been identified in Area 5, fertilisation practices in the western part of the

area suggest that settlement continued there or in the close vicinity. Whereas the deposits in Area 2 were fertilised primarily using dung, the deposits in the western part of Area 5 included a higher proportion of settlement waste.

The area occupied by the present cemetery north of Area 5 and west of the raised stones is a possible location for the settlement of SP IV. Other alternatives are the area south-south-west of Area 6 or along the eastern edge of Area 1, which was later occupied by a high-medieval masonry building (Bauer, Ch. 14) and the post-medieval rectory (Bauer, Ch. 15).

6.5 Site Period V: c. AD 900–1250

The activities at Avaldsnes in SP V were very much a continuation from SP IV, with one substantial difference: on the same spot where the building A10 stood in early SP III, a row of postholes that constitute a possible building (A14) was raised in the 10th or early 11th centuries. This possible re-establishment of a building with a vista of the Karmsund strait, highly visible to travellers, characterises SP V (Fig. 6.5). A14 is poorly preserved and initiates a period of rather vague or indirect settlement indications. Other parts of the site bear witness to stability and continuation with regard to cultivation (Areas 2 and 5) and the processing of grain (Area 6).

A14 consisted of a row of postholes cut into the wall ditch of SP III building A10. The row is probably the remains of a wall, though an alternative interpretation as a fence cannot be dismissed. However, three depressions in the bedrock forming a parallel row to the west suggest a possible western wall (Østmo and Bauer, Fig. 7.9). As the material available for radiocarbon dates is limited to fragments of charred birch in the back-fill of postholes without preserved post prints, it is impossible to consider whether the dates represent the time of construction or deconstruction of the building. Calculated probability for the different sub-sequences within the 1 and 2 Sigma range of each sample combined with the overlap of radiocarbon dating results from the postholes may indicate a slightly higher chance for an overall date to late 10th century and early 11th century. However, it remains possible that the building was raised earlier in the 10th century. A radiocarbon date from the hearth of SP III building A10 spanning from the mid-11th to mid-12th century (TRa-4240) is probably the result of an intrusion. Although the connection between the SP V post- and stakeholes in Area 1 is difficult to confirm, their number, alignment, and narrow dating frame indicate that at least one building was raised there in the 10th–11th century.

Two postholes in Area 5 date to the early 11th to mid-12th century (Ua-45371 and Ua-45380). A large concentration of heated and cracked stones covered the postholes. The stone layer contained loom-weights and schist griddle stones likely dating to the 9th–13th century while the near absence of ceramic sherds may push the dating towards the late Viking Age, that is, the early 11th century. Such deposits containing

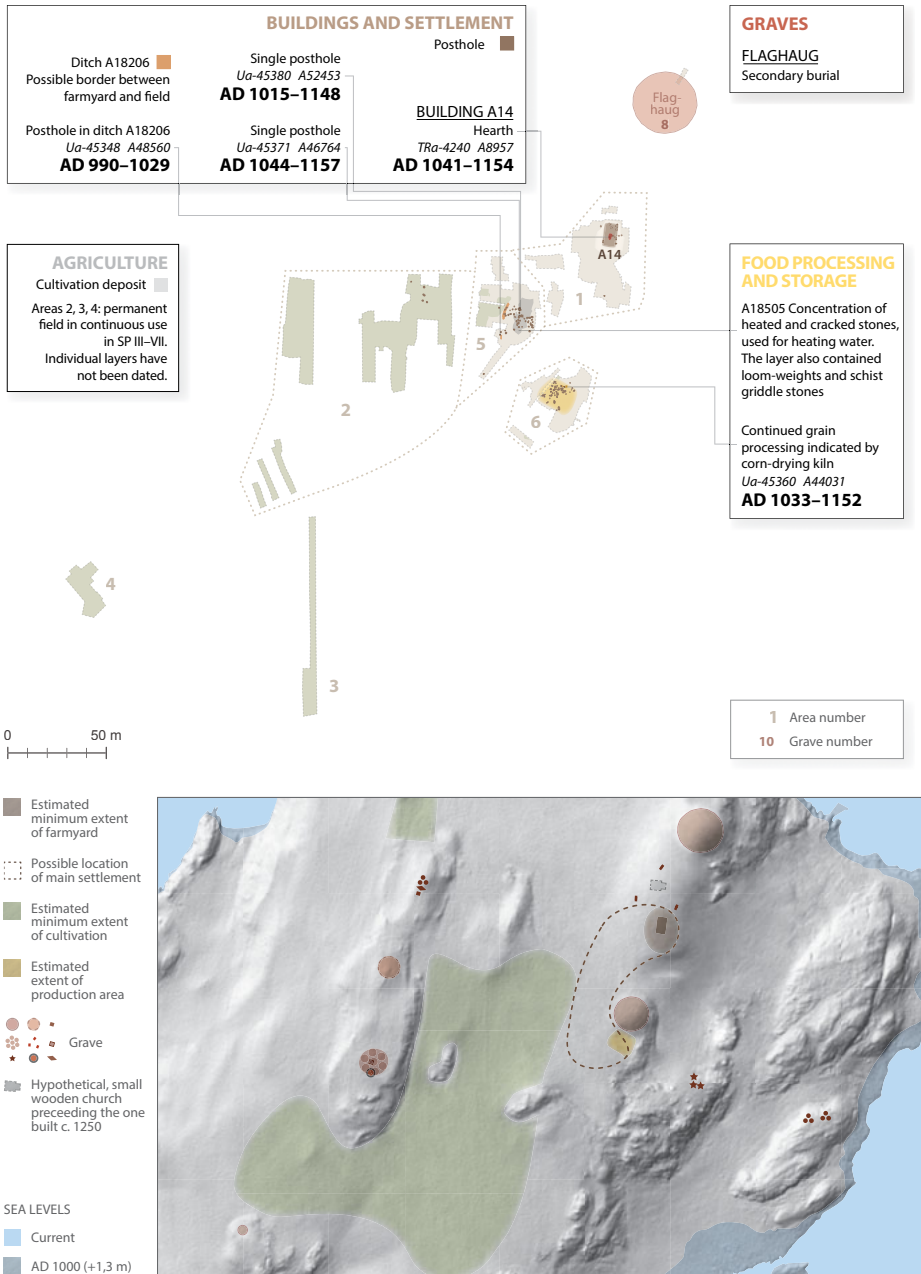


Fig. 6.5: Main features of Site Period V. Key contexts and radiocarbon dates mentioned in the text are labelled above; an overall interpretation of the land use and spatial organisation within SP V is presented in the lower. Numbering of graves refer to map key in Østmo and Bauer, Fig. 12.1 and Tab. 12.1. Illustration: I. T. Bøckman, *MCH*.

heaps of stones – discarded after having been used for heating water – are a normal occurrence in the outskirts of farmyards in this period (Østmo and Bauer, Ch. 7). Along with the objects used for weaving and bread baking, the concentration of stones indicates that the SP V farmyard was lying close by, possibly in Area 5 or in the heavily truncated western part of Area 1. This fits rather well with a ditch and a row of small posts in the central part of Area 5 that seem to reaffirm the border between the field to the west and farmyard to the east. One of the postholes dates to the turn of the first millennium AD (Ua-45348).

In Area 6, the only grain-rich feature postdating the last decades of the 10th century was a corn-drying kiln dated to AD 1033–1152 (Ua-45360). Though the grain processing in this area does seem to continue well into SP V, this use of the area may have seen its highest intensity in late SP IV and the first century of SP V.

6.6 Site Period VI: c. AD 1250–1368

The most prominent feature of SP VI is the standing St Óláfr's Church, the construction of which began around 1250. A masonry cellar from a building (A12) on the eastern edge of the settlement plateau to the south of the church, several stone pavings, a subterranean passageway, and an octagonal masonry building are other features of the SP VI complex (Fig. 6.6). Characteristic for SP VI is the masonry architecture, representing a substantial change in the monumentality, functionality, and construction technology of the known features of the royal manor at Avaldsnes.

The high-medieval complex was erected within an existing royal manor estate, although there are few archaeological sources that can illuminate the form and layout of the manor in SP VI. A preceding church is mentioned in written sources, likely in the shape of a wooden church in the same area as the SP VI stone church. A Romanesque masonry church predating the present Gothic church is also possible.

In AD 1308 the church became a royal collegiate chapel, and documentary evidence indicates that the king stayed at Avaldsnes on several occasions in the early 14th century (Bauer, Ch. 14; Mundal, Ch. 3:44). Based on the excavated features, a royal manor complex of buildings and features is suggested, situated in the same general area where the farmyard was established in SP III. Known elements in the complex comprise the church, several stone pavings, including a stone-paved walkway at least 25 metres long (A32545) in Area 5, building A12, a subterranean passageway in Area 1, and a demolished octagonal building that according to documentary evidence was standing in the cemetery south of the church (Bauer, Ch. 14). The exposed part of the subterranean passageway was more than 30 metres long; it is assumed to date to the Middle Ages based on parallels from medieval Iceland as well as the stratigraphic relationship to a stone foundation for a building, believed to date to the Middle Ages (Haavaldsen 1989a:76–7). The presence of the subterranean passageway

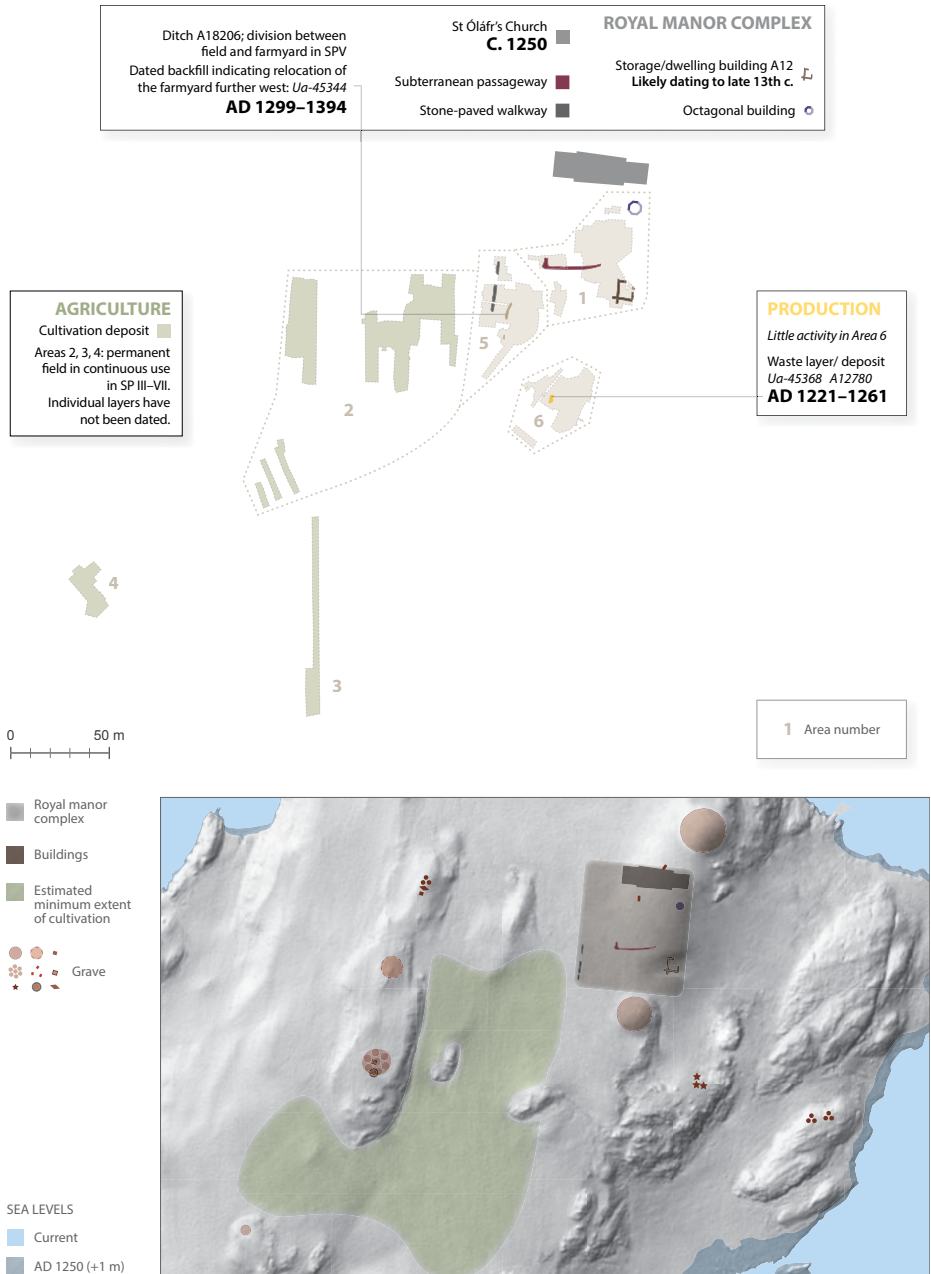


Fig. 6.6: Main features of Site Period VI. Key contexts and radiocarbon dates mentioned in the text are labelled above; an overall interpretation of the land use and spatial organisation within SP V is presented in the lower. Illustration: I. T. Bøckman, MCH.

signals the need for escape routes in turbulent times; for example, the Hanseatic raid of Avaldsnes in 1368, which included the burning down of royal properties (Mundal, Ch 3:44). This attack appears to have precipitated the downfall of Avaldsnes as a royal manor and marks the end of SP VI.

The excavated remains of building A12 were a masonry cellar with a doorway towards the strait, likely used as a storage room for goods combined with a dwelling for the early 14th-century royal collegiate. The cellar was part of a larger building, as it likely had one or two additional floors above and continued northwards outside the excavated area. Previous surveys have documented activity in the harbour area at Gloppe in SP VI. Large underwater waste deposits related to trade activities indicate intensive use; finds include medieval pottery and a shipwreck likely dated to the 13th century (Opedal et al. 2001:108–13).

Although the upper floors of A12 may have served as residence for clergy and possibly the visiting king, direct evidence of other dwellings was not identified. The stone-paved walkway in the west indicates that the division between field and farmyard was moved slightly further west compared to its location in SP V. Back-fill in the ditch that served as the division in SP V was dated to the 14th century (Ua-45344); thus, material from farmyard activities in SP VI seems to have been redeposited in the earlier ditch. The paved walkway is difficult to date precisely but its orientation and similarity to pavings south-west of A12 suggests its contemporaneity with building A12 and St Óláfr's Church.

In Area 6, deposit A12780, cutting into several older features and containing burnt clay, charcoal, cereal, and burnt animal bones, was dated to the mid-13th century (Ua-45368), that is, much later than other features in this area. The lack of coherent buildings or other constructions related to the dated deposit could suggest that there was little activity here in SP VI, or alternatively that such remains were truncated by later activities in the rectory farmyard.

6.7 Site Period VII: 1368–1900

After the 1368 fire, no royal documents issued at Avaldsnes have been preserved (Mundal, Ch. 3:44), suggesting that the administrative functions of the royal manor ceased. This development was probably connected to the increased role of towns in royal affairs, and because, due to the joint kingship 1380–1814 between Denmark and Norway, the king was residing in Copenhagen. However, activity in the Avaldsnes farmyard area did not cease after the 1368 fire. While there are no clear building traces from the following century, there are deposits overlying A10/A14 that are radiocarbon dated from the mid-15th to the mid-17th century (TRa-4233, TRa-4239, and TRa-4244). Written sources, paintings, archaeological artefacts, and additional radiocarbon dating results contribute to the knowledge of the farm at Avaldsnes in recent centu-

ries, but such features or constructions beyond the time frame investigated by ARM were not excavated and documented unless they covered features targeted due to the project specific aims (Fig. 6.7).

The post-Medieval rectory was situated immediately to the south of St Óláfr's Church, in the area where the farmyard appears to have been situated since SP III. While the evidence is scant for the early period, it is richer for the period following the fire that destroyed the rectory in 1698, of which several presumed traces were found. The rectory was rebuilt on the same site after the fire. Excavated building remains of the post-Medieval rectory post- and predating the 1698 fire consisted primarily of collections of stones forming rows or other more or less distinguishable albeit fragmented patterns. Most of the stones were probably part of foundations; the rectory farmyard consisted of several buildings, including dwellings and economic buildings that were built, rebuilt, or torn down through the centuries, some of which are described in documentary sources (Fyllingsnes 2008; Bauer, Ch. 15). A few remains of the old rectory are still preserved in Area 1, south of the church: a small building that previously was the storehouse from the old farmyard and a stone-built well (A11062). The well was probably in use for centuries, but dated deposits from the bottom of the construction were from AD 1697–1917 (Beta-319021).

Paintings and surveys at the Gloppe Peninsula reveal several buildings and building remains, of which some likely relate to the Hanseatic presence in the area in SP VI–early VII. Trade is documented by written sources as well as voluminous waste deposits in the strait around Gloppe (Opedal et al. 2001:113–20). From the 16th century onwards the priests at Avaldsnes are supposed to have managed an inn at Gloppe, although it seems this activity did not produce significant income (Lindanger 1999:174–80). By the 18th and 19th centuries a new trade centre developed at Gloppe, which had also become the location for the local thing assembly (Lillehammer 1989).

Several excavated features testify to the rectory garden, which is also visible in paintings of Avaldsnes (Bauer, Figs. 15.1–3).

By the end of SP VI, a new dwelling was built for the rector at the site of the present Nordvegen History Centre, marking the end of perhaps 1700 years of a the main dwelling being situated in the farmyard on the large plateau overlooking the strait. In the mid-16th century the church fell into disrepair, and for a long time only the chancel was in use. The rest of the church fell into ruin until it was restored in the 19th century. In the 1920s, St Óláfr's Church achieved its present form, including a large western tower, presumably similar to the medieval version of the church. By an impressive act of camouflage, the newly restored church avoided demolition by the German occupiers during the Second World War – they feared it would aid the navigation of English air pilots – thus it remains to provide the signature silhouette of Avaldsnes as a place of history and power.

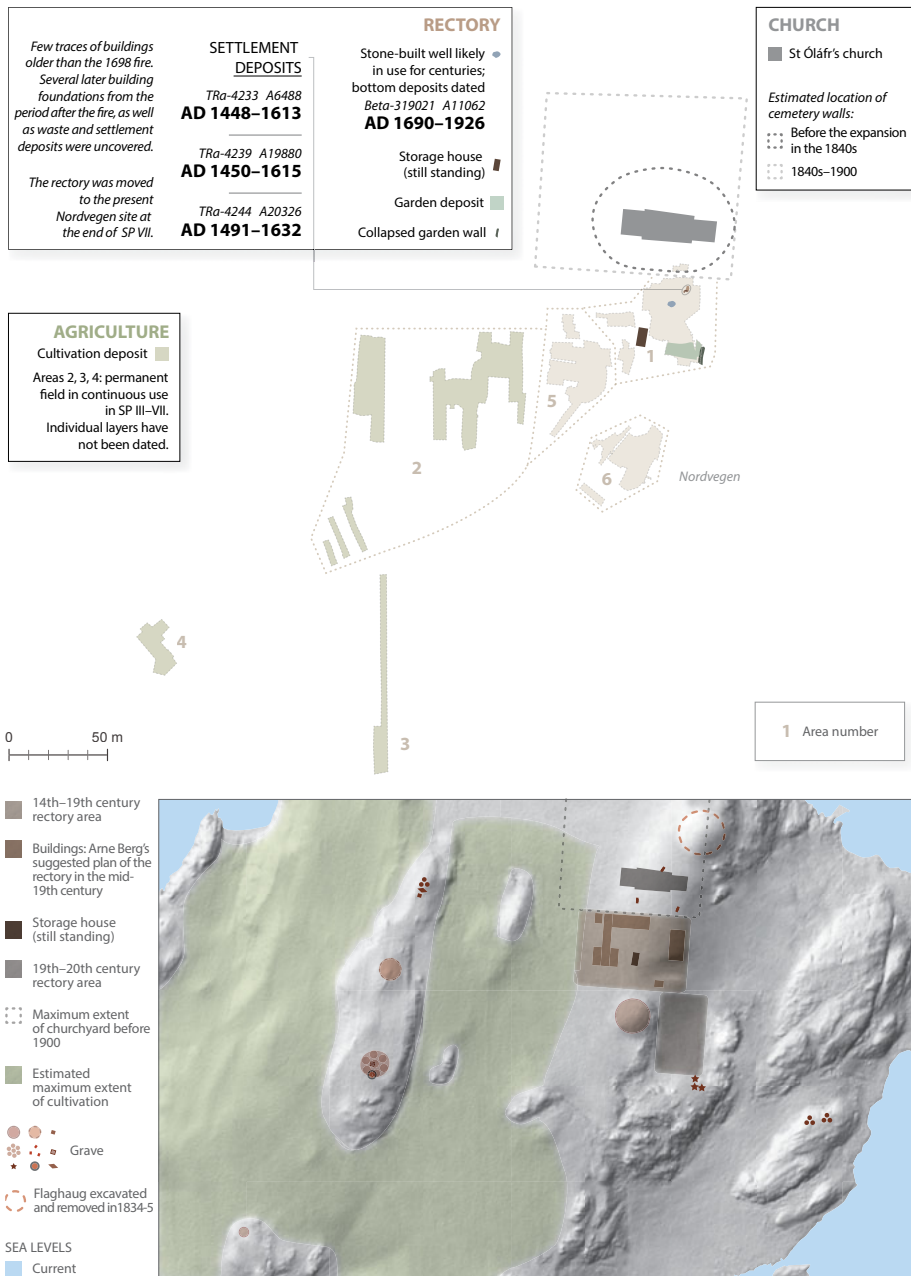


Fig. 6.7: Main features of Site Period VII. Key contexts and radiocarbon dates mentioned in the text are labelled above; an overall interpretation of the land use and spatial organisation within SP VI is presented in the lower. Illustration: I. T. Bøckman, *MCH*.



Fig. 6.8: The St Óláfr's Church camouflaged by the German authorities during the Second World War. Owner: The Directorate of Cultural Heritage's archives.

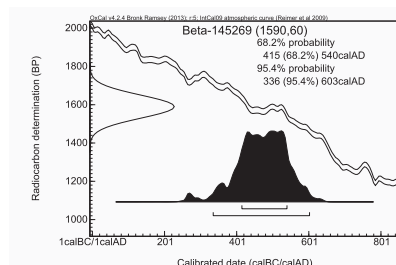
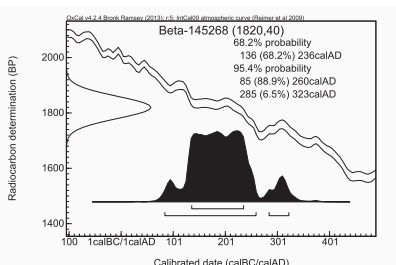
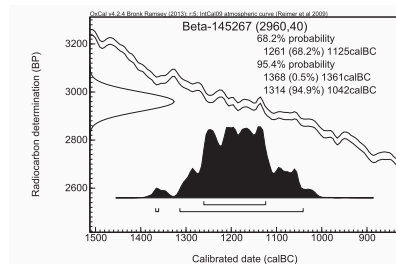
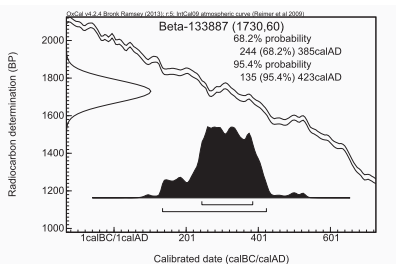
Appendix II: Radiocarbon Dates

All radiocarbon datings from the ARM excavations 2011–12 have been calibrated according to OxCal v4.2.3 (Reimer et al. 2009); they are listed by laboratory numbers, and with their respective calibration curves. Pre-2011 datings (in italics) have been recalibrated. Datings on material from previous excavations on courtyard sites (Iversen, Ch. 26) are listed separately (pp. 889–97). Prefixes in each dating's laboratory number indicates laboratory and dating method – see Abbreviations (pp. XIII–XIV).

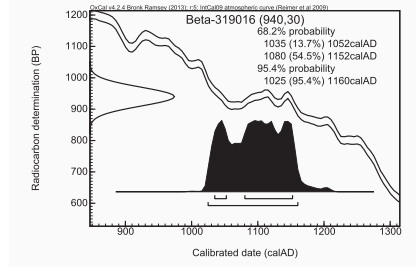
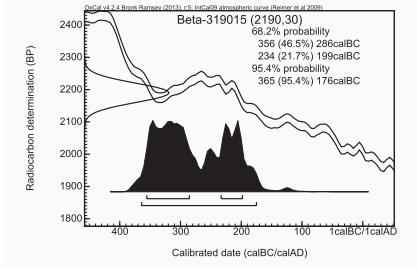
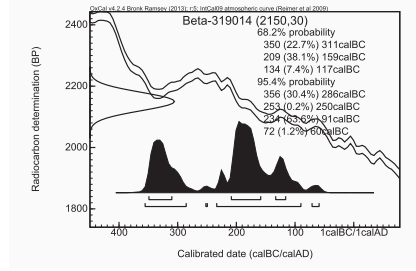
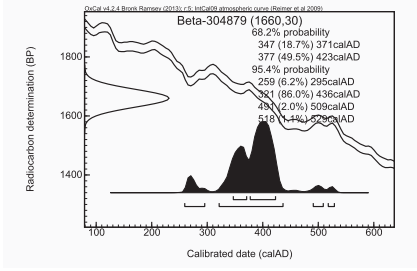
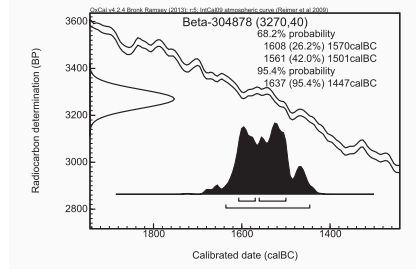
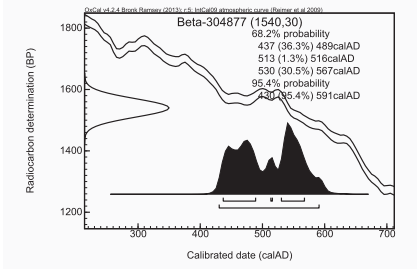
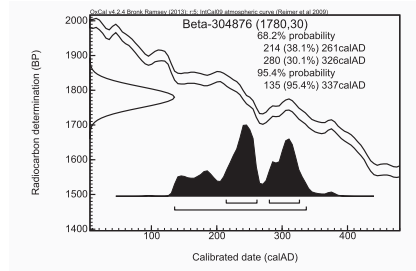
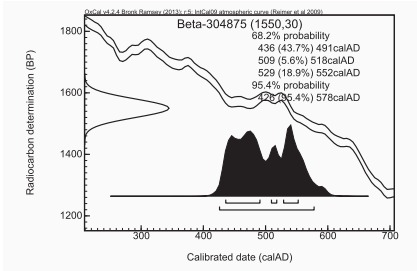
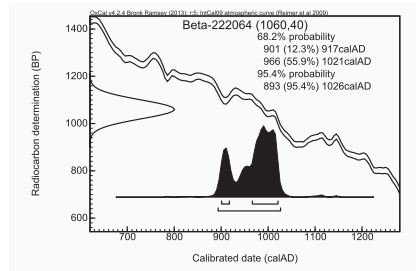
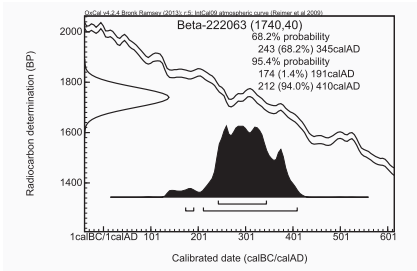
When referred to in the text, datings are given in terms of the one sigma (68.2% probability) unless otherwise stated. If the one sigma spans more than one time interval, only the start of the earliest and end of the most recent is indicated. For example, for the dating Beta-304876 where the one sigma spans the two periods AD 214–61 and 280–326, this is written as AD 214–326.

Avaldsnes and Vicinity

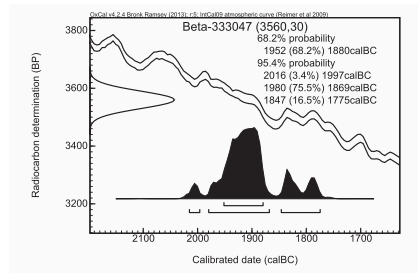
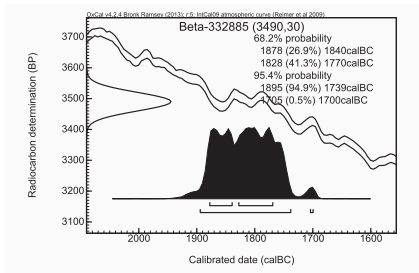
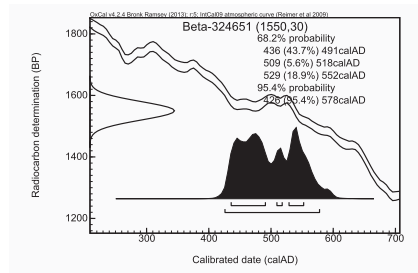
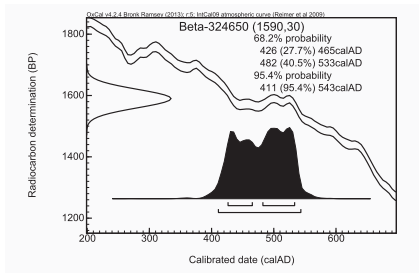
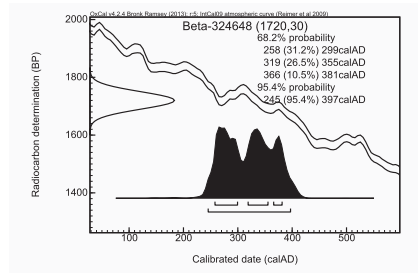
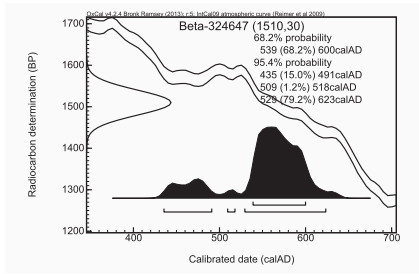
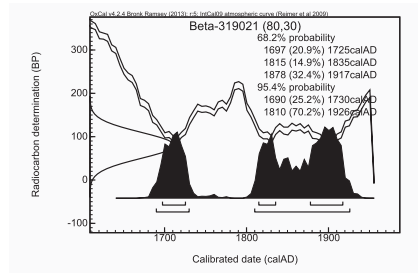
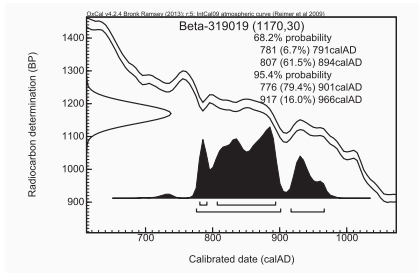
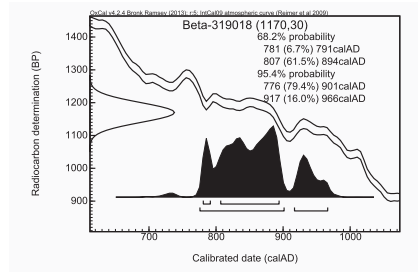
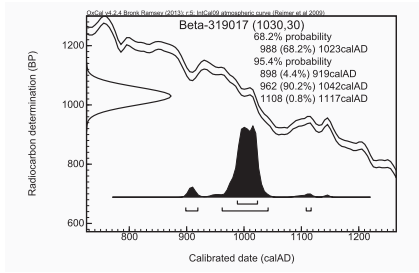
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Beta-145267	Avaldsnes		2960 +/- 40	BC 1261–1125	BC 1368–1314, 1042	Cultivation deposit 2000: layer 5
Beta-145268	Avaldsnes		1820 +/- 40	AD 136–236	AD 85–260, 285–323	Grave 2000: structure 2
Beta-145269	Avaldsnes		1590 +/- 60	AD 415–540	AD 336–603	Grave 2000: structure 4



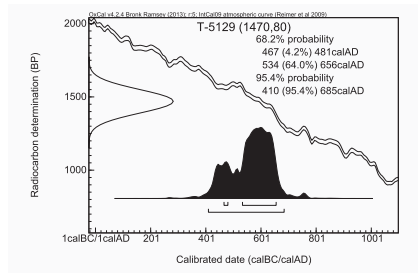
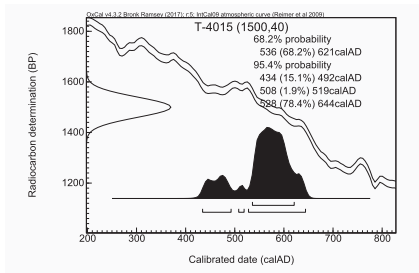
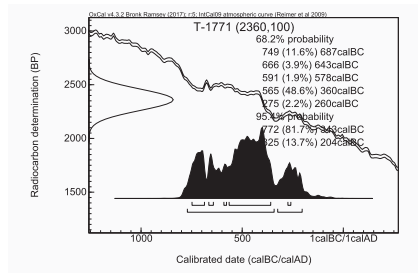
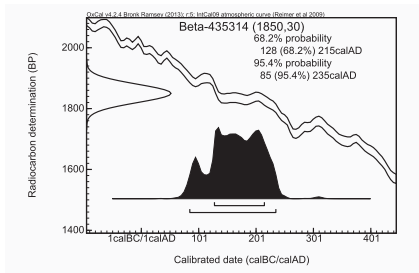
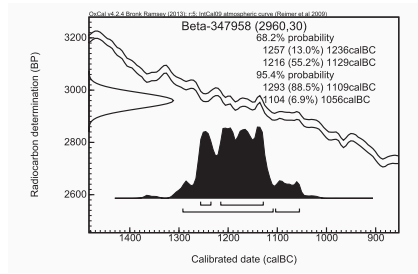
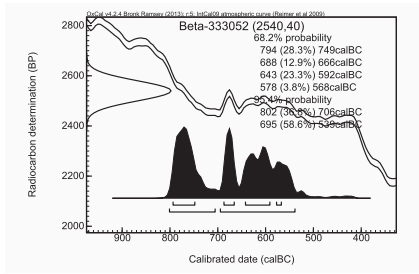
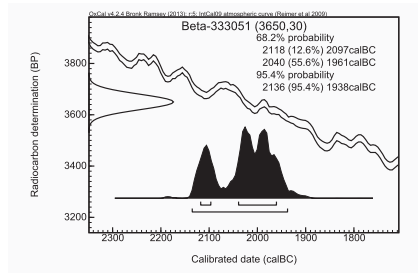
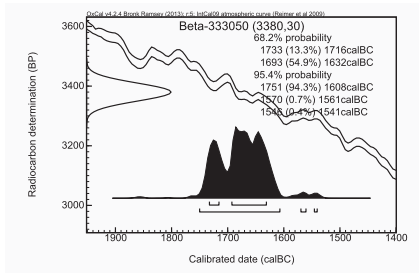
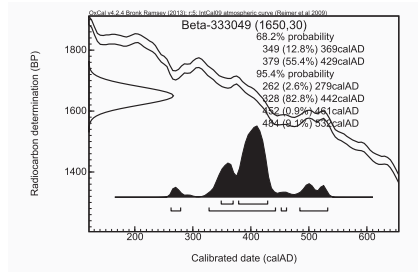
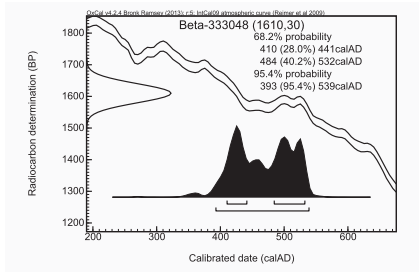
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Beta-222064	Avalsnes 2006/19-2	Charred material	1060 +/- - 40	AD 901-917, 966-1021	AD 893-1026	Posthole A18687, A14
Beta-304875	Avalsnes 1546	Betula	1550 +/- - 30	AD 436-491, 509-518, 529-552	AD 426-578	Cooking pit A2046
Beta-304876	Avalsnes 1552	Betula	1780 +/- - 30	AD 214-261, 280-326	AD 135-337	Cooking Pit A3889
Beta-304877	Avalsnes 1555	Betula	1540 +/- - 30	AD 437-489, 513-516, 530-567	AD 430-591	Cooking pit A5031
Beta-304878	Avalsnes 1721	Betula	3270 +/- - 40	BC 1608- 1570, 1561-1501	BC 1637- 1447	Cultivation deposit A4216
Beta-304879	Avalsnes 1566	Betula	1660 +/- - 30	AD 347-371, 377-423	AD 259-295, 321-436, 491-509, 518-529	Hearth A8957, A10
Beta-319014	Avalsnes 39	Hordeum vulgare	2150 +/- - 30	BC 350-311, 209-159, 134-117	BC 356-286, 235-250, 234-91, 72-60	Cooking pit A9568
Beta-319015	Avalsnes 61	Hordeum vulgare	2190 +/- - 30	BC 356-286, 234-201	BC 365-176	Cooking pit A18656
Beta-319016	Avalsnes 76	Avena	940 +/- - 30	AD 1035- 1052, 1080-1152	AD 1025- 1160	Stakehole A18736, A14



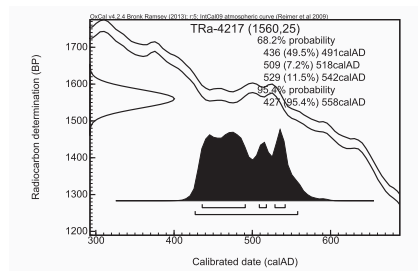
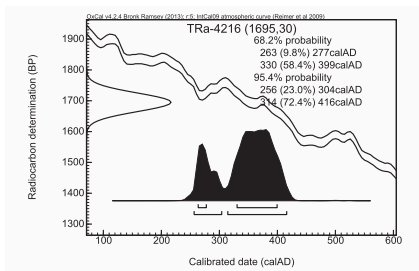
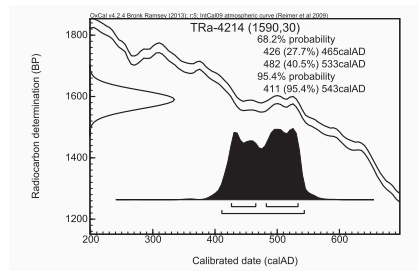
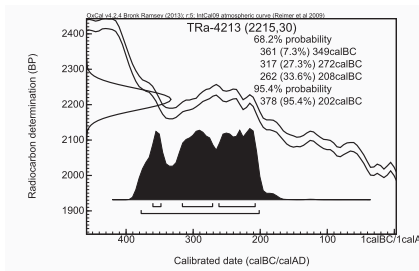
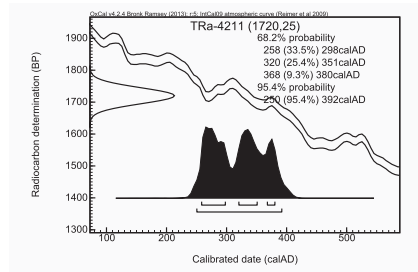
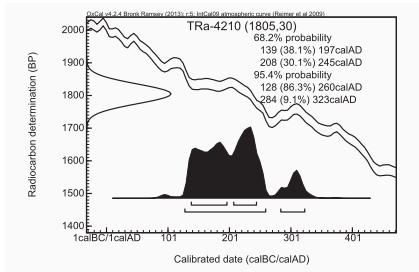
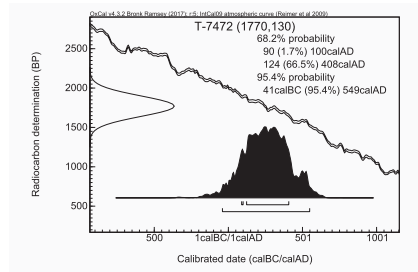
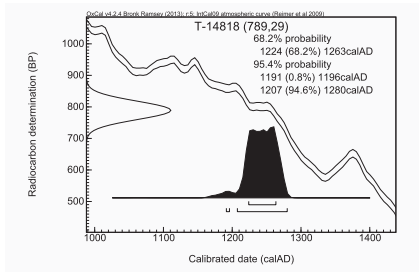
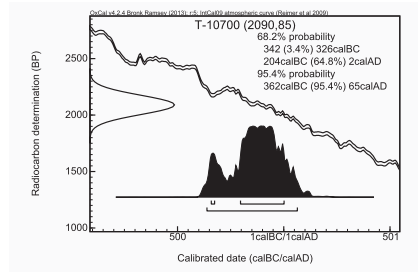
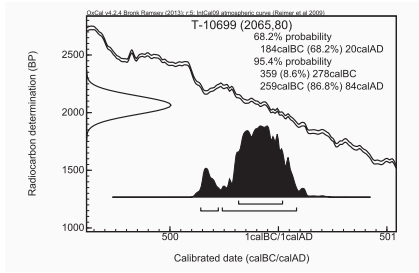
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Beta-319018	Avalsnes 91	Hordeum vulgare	1170 +/- - 30	AD 781-791, 807-894	AD 776-901, 917-966	Posthole A10197
Beta-319019	Avalsnes 98	Hordeum vulgare	1170 +/- - 30	AD 781-791, 807-894	AD 776-901, 917-966	Pit A20476
Beta-319021	Avalsnes 126	Corylus avellana nutshell	80 +/- - 30	AD 1697- 1725, 1815- 1835, 1878-1917	AD 1690- 1730, 1810-1926	Well A11062
Beta-324647	Avalsnes 129	Populus	1510 +/- - 30	AD 539-600	AD 435-491, 509-518, 529-623	Possible floor, A28805, A40
Beta-324648	Avalsnes 130	Alnus	1720 +/- - 30	AD 258-299, 319-355, 366-381	AD 245-397	Posthole A31295, A40
Beta-324650	Avalsnes 132	Betula	1590 +/- - 30	AD 426-465, 482-533	AD 411-543	Conduit A30325, A40
Beta-324651	Avalsnes 135	Betula	1550 +/- - 30	AD 436-491, 509-518, 529-552	AD 426-578	Posthole A31003, A40
Beta-332885	Avalsnes 473	Alnus	3490 +/- - 30	BC 1878- 1840, 1828-1770	BC 1895- 1739, 1705-1700	Hearth A46300, A13
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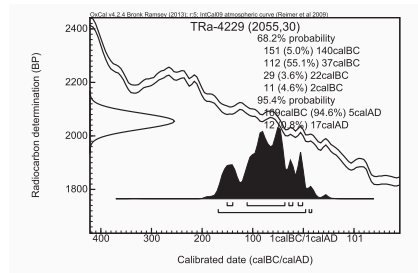
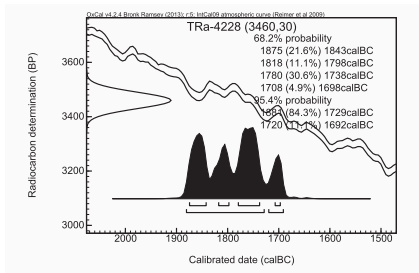
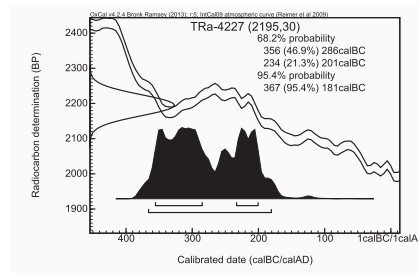
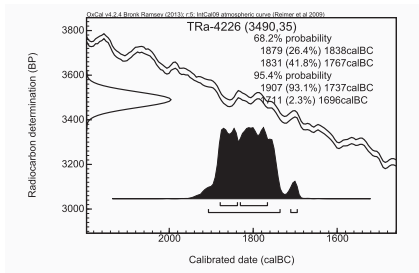
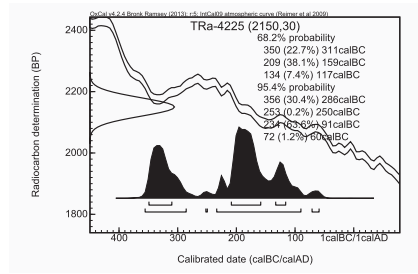
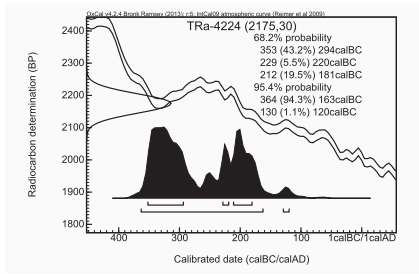
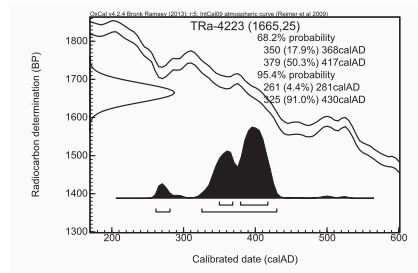
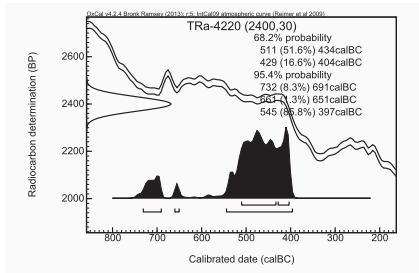
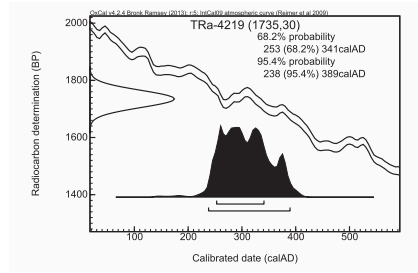
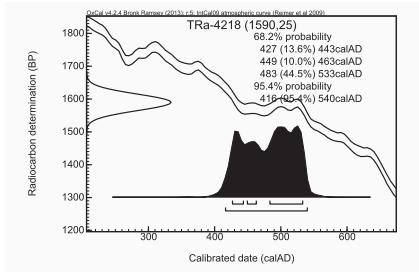
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Beta-333049	Avaldsnes 313	Hordeum vulgare	1650 +/- - 30	AD 349–369, 379–429	AD 262–279, 328–442, 452–461, 484–532	Posthole A46796, A13
Beta-333050	Avaldsnes 304	Alnus	3380 +/- - 30	BC 1733– 1716, 1693–1632	BC 1751– 1608, 1570–1561, 1546–1541	Charcoal concentration A42891
Beta-333051	Avaldsnes 279	Betula	3650 +/- - 30	BC 2118– 2097, 2040–1961	BC 2136– 1938	Impression of removed stone A44121
Beta-333052	Avaldsnes 216	Hordeum vulgare	2540 +/- - 40	BC 794–749, 688–666, 643–592, 578–568	BC 802–706, 695–539	Charcoal deposit A39717
Beta-347958	Avaldsnes 1720	Humus	2960 +/- - 30	BC 1257– 1236, 1216–1129	BC 1293– 1109, 1104–1056	Cultural deposit A9601
Beta-435314	Avaldsnes 475	Quercus	1858 +/- - 30	AD 128–215	AD 85–235	Hearth A46300, A13
T-1771	Taksdal	Quercus	2360 +/- - 100	BC 749–687, 666–643, 591–578, 565–360, 275–260	BC 772–343, 325–204	Ard, S8749
T-4015	Madla	Bog butter	1500 +/- - 40	AD 536–621	AD 434–492, 508–519, 528–644	Bog butter, S9457
T-5129	Salhusaug -	Pinus	1470 +/- - 80	AD 440–450, 460–490, 530–660	AD 410–700	Wooden spade from grave mound



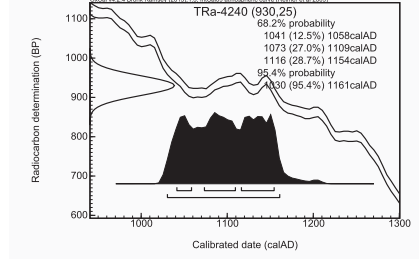
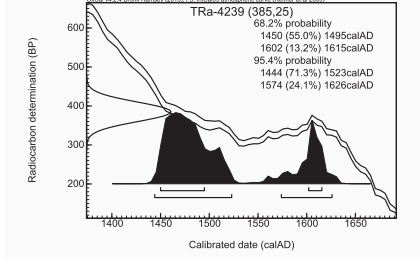
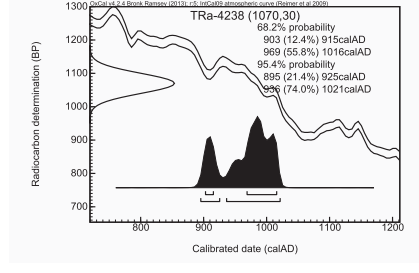
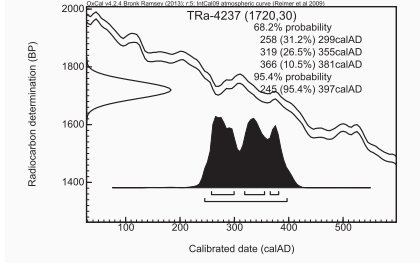
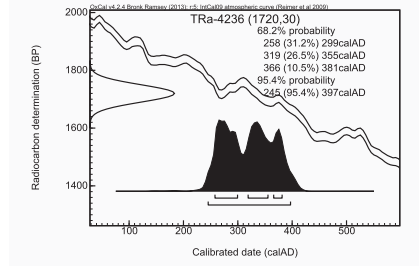
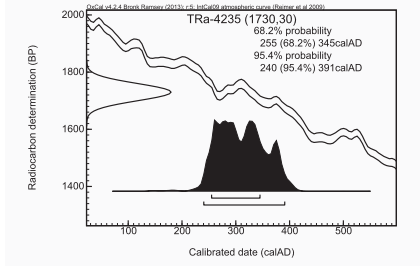
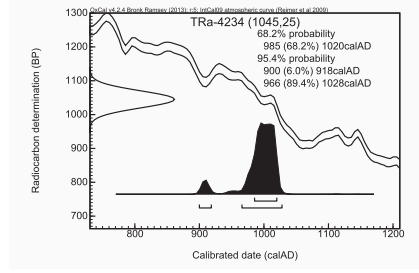
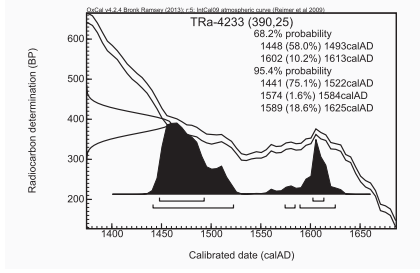
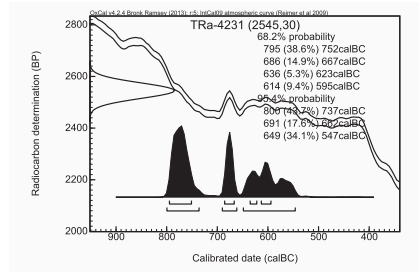
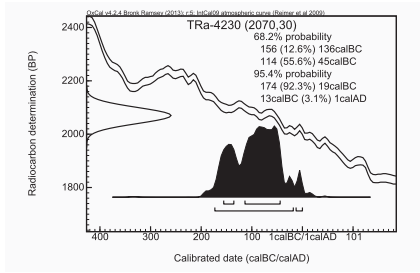
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T-7472	Bø	Skeletal remains (human)	1770 +/- - 130	AD 90–100, 124–408	AD 41–549	Skeletal remains (human), S10968
T-10699	Avalsnes	Betula, Salix, Corylus	2065 +/- -80	BC 184–AD 20	BC 359–278, 259–84	Hearth 1992:35
T-10700	Avalsnes	Betula, Salix	2090 +/- - 85	BC 342– 326,BC 204–AD 2	BC 362–AD 65	Hearth (1992: 31)
T-14818	Gloppenhavn -	Unknown	789 +/- - 29	AD 1224– 1263	AD 1191– 1196, AD 1207–1280	Shipwreck in Gloppenhavn P. #
Tra-4210	Avalsnes 274	Alnus	1805 +/- - 30	AD 139–197, 208–245	AD 128–260, 284–323	Cooking pit A44603
TRa-4211	Avalsnes 9	Corylus avellana nutshell	1720 +/- - 25	AD 258–298, 320–351, 368–380	AD 250–392	Cooking pit A3646
TRa-4213	Avalsnes 11		2215 +/- - 30	BC 361–349, 317–272, 262–208	BC 378–202	Impression of removed stone A4079
TRa-4214	Avalsnes 14	Hordeum vulgare	1590 +/- - 30	AD 426–465, 482–533	AD 411–543	Cooking pit A1425
TRa-4216	Avalsnes 24	Corylus avellana nutshell	1695 +/- - 30	AD 263–277, 330–399	AD 256–304, 314–416	Cooking pit A5049
TRa-4217	Avalsnes 23	Salix	1560 +/- - 25	AD 436–491, 509–518, 529–542	AD 427–558	Cooking pit A5263



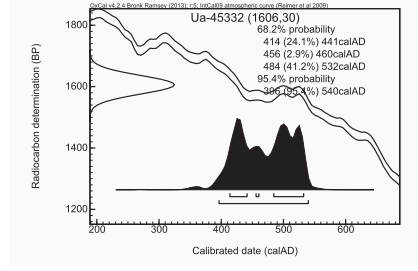
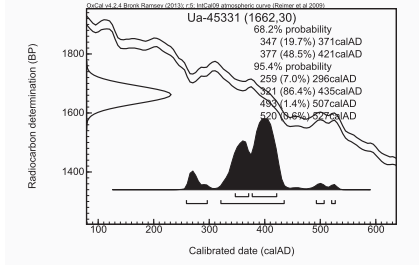
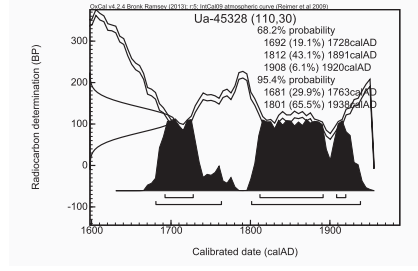
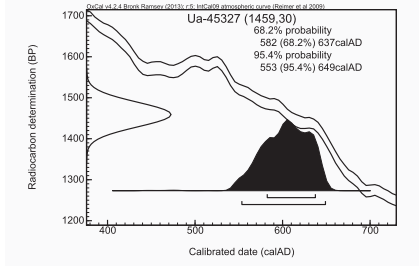
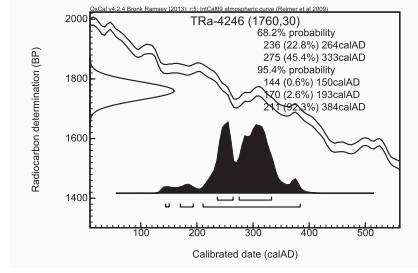
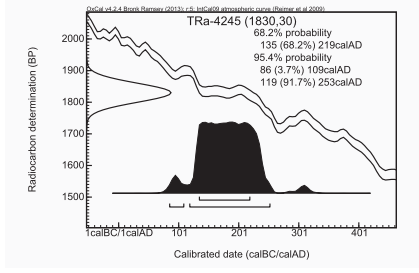
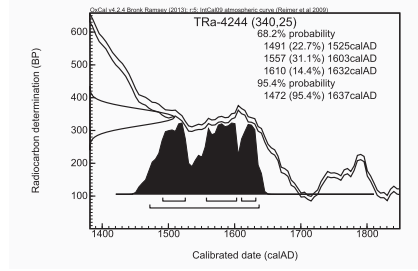
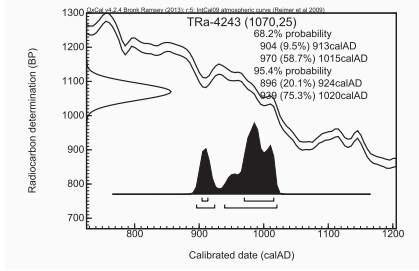
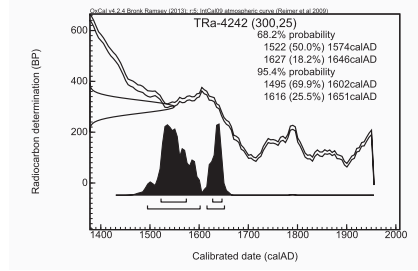
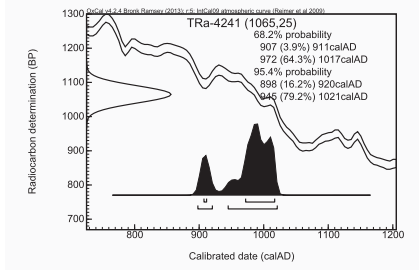
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TRa-4218	Avalsnes 27	Corylus avellana nutshell	1590 +/- - 25	AD 427-443, 449-463, 483-533	AD 416-540	Cooking pit A5376
TRa-4219	Avalsnes 25	Salix/ populus tremula	1735 +/- - 30	AD 253-341	AD 238-389	Cooking pit A5541
TRa-4220	Avalsnes 29	Corylus avellana nutshell	2400 +/- - 30	BC 511-434, 429-404	BC 732-691, 661-651, 545-397	Posthole A5815
TRa-4223	Avalsnes 30	Pinus	1665 +/- - 25	AD 350-368, 379-417	AD 261-281, 325-430	Cooking pit A5504
TRa-4224	Avalsnes 36	Betula	2175 +/- - 30	BC 353-294, 229-220, 212-181	BC 364-163, 130-120	Cooking pit A9150
TRa-4225	Avalsnes 37	Betula	2150 +/- - 30	BC 350-311, 209-159, 134-117	BC 356-286, 253-250, 234-91, 72-60	Cooking pit A9533
TRa-4226	Avalsnes 43	Corylus avellana nutshell	3490 +/- - 35	BC 1879- 1838, 1831- 1767	BC 1907- 1737, 1711-1696	Posthole A10500
TRa-4227	Avalsnes 49	Betula	2195 +/- - 30	BC 356-286, 234-201	BC 367-181	Cooking pit A12577
TRa-4228	Avalsnes 50	Salix	3460 +/- - 30	BC 1875- 1843, 1818-1798, 1780-1738, 1708-1698	BC 1881- 1729, 1720-1692	Cooking pit A4193
TRa-4229	Avalsnes 47	Betula	2055 +/- - 30	BC 151-140, 112-37, 29-22, 11-2	BC 169-AD 5,AD 12-17	Cooking pit A1640



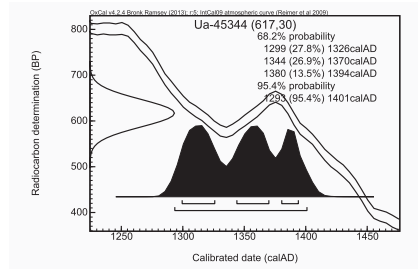
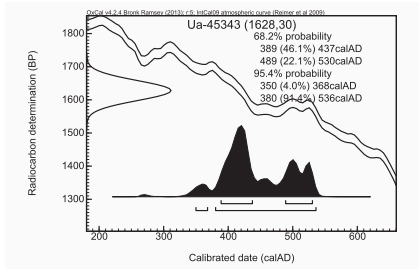
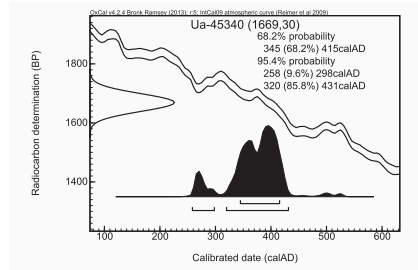
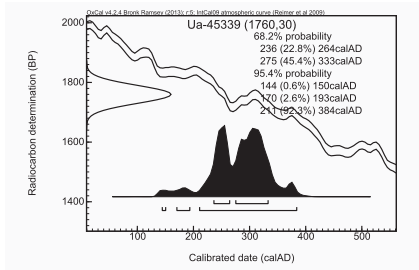
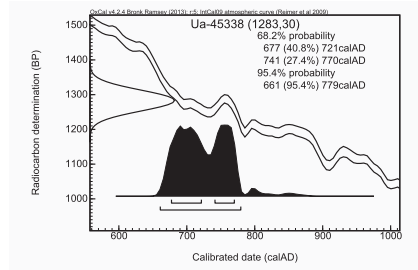
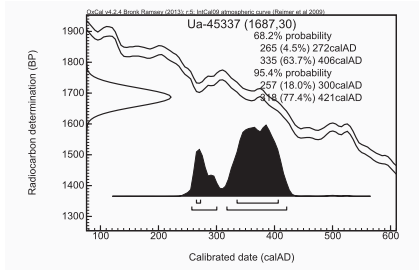
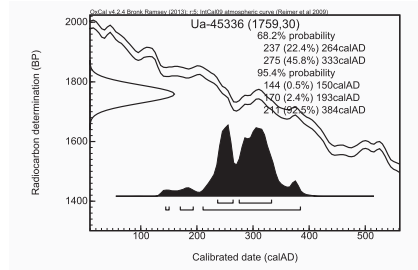
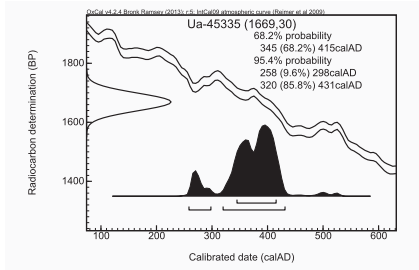
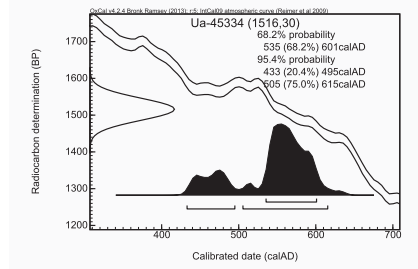
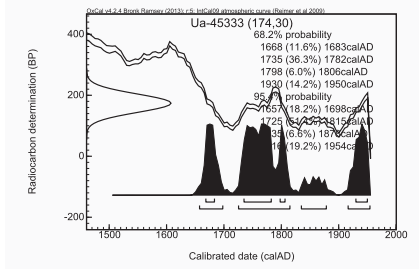
LAB NO.	SITE, SAMPLE NO.	MATERIAL	RADIOCARBON AGE BP	CALIBRATED 1 SIGMA	CALIBRATED 2 SIGMA	CONTEXT
TRa-4230	Avaldsnes 53	Betula	2070 +/- - 30	BC 156-136, 114-45	BC 174-19,BC 13-AD 1	Cultivation deposit A103
TRa-4231	Avaldsnes 54	Corylus avellana nutshell	2545 +/- - 30	BC 795-752, 686-667, 636-623, 614-595	BC 800-737, 691-662, 649-547	Cultivation deposit A5882
TRa-4233	Avaldsnes 82	Salix	390 +/- - 25	AD 1448- 1493, 1602-1613	AD 1441- 1522, 1574- 1584, 1589-1625	Floor layer A6488
TRa-4234	Avaldsnes 89	Betula	1045 +/- - 25	AD 985-1020	AD 900-918, 966-1028	Discarded A19788
TRa-4235	Avaldsnes 74	Betula	1730 +/- - 30	AD 255-345	AD 240-391	Hearth A5793, A10
TRa-4236	Avaldsnes 86	Quercus	1720 +/- - 30	AD 258-299, 319-355, 366-381	AD 245-397	Hearth A8957, A10
TRa-4237	Avaldsnes 69	Betula	1720 +/- - 30	AD 258-299, 319-355, 366-381	AD 245-397	Posthole A18745, A10
TRa-4238	Avaldsnes 87	Betula	1070 +/- - 30	AD 903-915, 969-1016	AD 895-925, 936-1021	Posthole A19839, A14
TRa-4239	Avaldsnes 1953	Betula	385 +/- - 25	AD 1450- 1495, 1602-1615	AD 1444- 1523, 1574-1626	Possible post- hole A19880
TRa-4240	Avaldsnes 80	Betula	930 +/- - 25	AD 1041- 1058, 1073- 1109, 1116-1154	AD 1030- 1161	Hearth A8957, A10



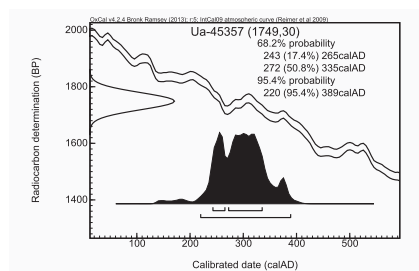
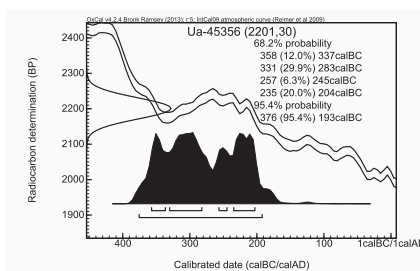
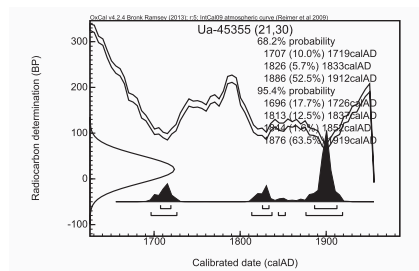
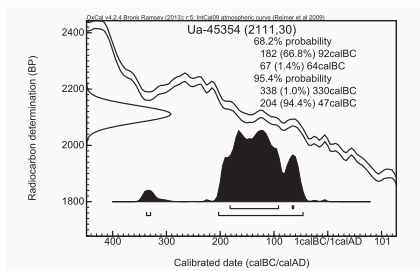
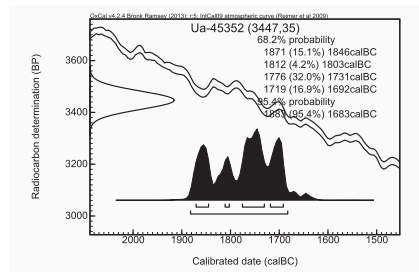
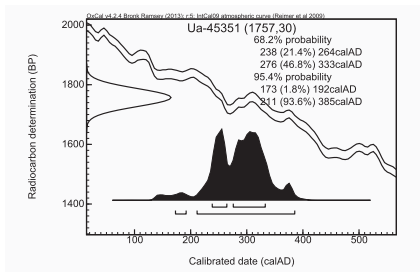
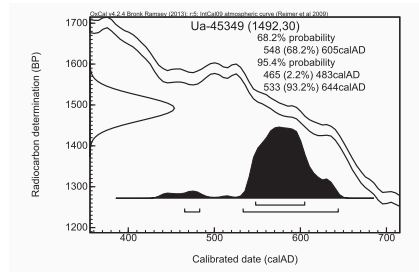
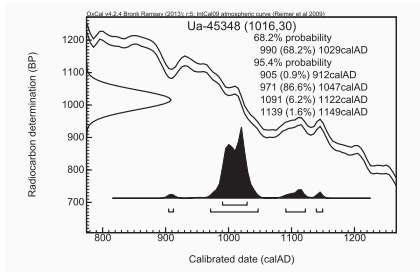
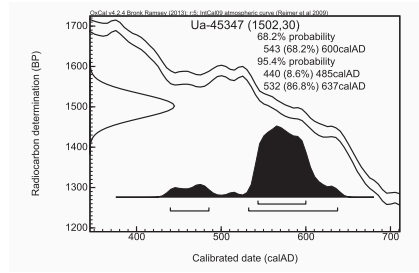
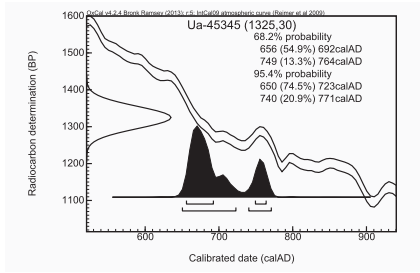
LAB NO.	SITE, SAMPLE NO.	MATERIAL	RADIOCARBON AGE BP	CALIBRATED 1 SIGMA	CALIBRATED 2 SIGMA	CONTEXT
TRa-4241	Avalsnes 88	Betula	1065 +/- - 25	AD 907-911, 972-1017	AD 898-920, 945-1021	Posthole A19829, A14
TRa-4242	Avalsnes 93	Betula	300 +/- - 25	AD 1522- 1574, 1627-1646	AD 1495- 1602, 1616-1651	Wall ditch A9231, A10
TRa-4243	Avalsnes 65	Betula	1070 +/- - 25	AD 904-913, 970-1015	AD 896-924, 939-1020	Posthole A18677, A14
TRa-4244	Avalsnes 72	Betula	340 +/- - 25	AD 1491- 1525, 1557- 1603, 1610-1632	AD 1472- 1637	Floor layer A20326
TRa-4245	Avalsnes 122	Betula	1830 +/- - 30	BC 135-AD 219	AD 86-109, 119-253	Post impres- sion A20921
TRa-4246	Avalsnes 109	Betula	1760 +/- - 30	AD 236-264, 275-333	AD 144-150, 170-193, 211-384	Discarded, A19860
Ua-45327	Avalsnes 127	Salix/ populus	1459 +/- - 30	AD 582-637	AD 553-649	Posthole A25343, A41
Ua-45328	Avalsnes 171	Betula	110 +/- - 30	AD 1692- 1728, 1812- 1891, 1908-1920	AD 1681- 1763, 1801-1938	Old ground surface A27331, A46
Ua-45331	Avalsnes 195	Betula	1662 +/- - 30	AD 347-371, 377-421	AD 259-296, 321-435, 493-507, 520-527	Construction layer A25526, A20
Ua-45332	Avalsnes 149	Betula	1606 +/- - 30	AD 414-441, 456-460, 484-532	AD 396-540	Charcoal concentration A32030



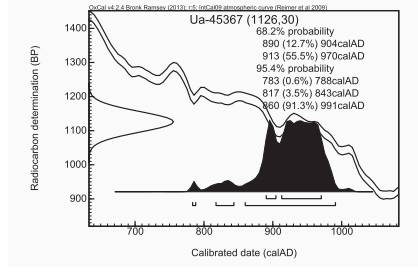
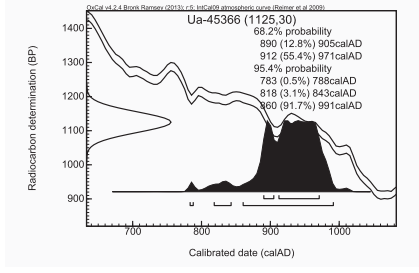
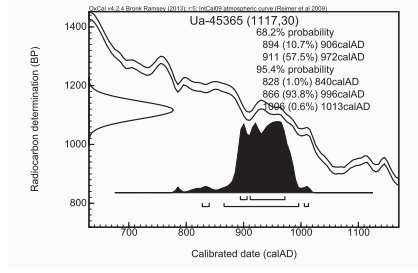
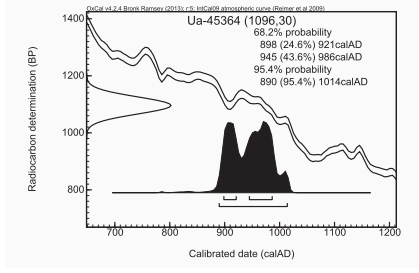
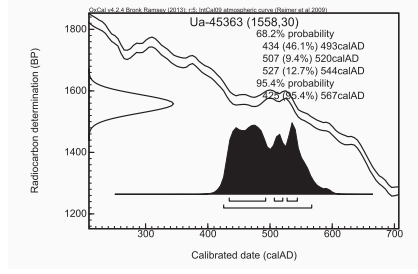
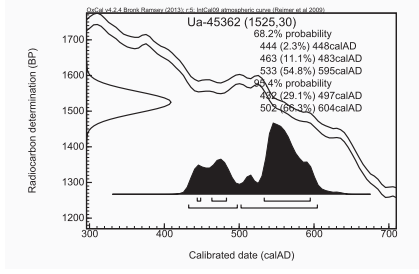
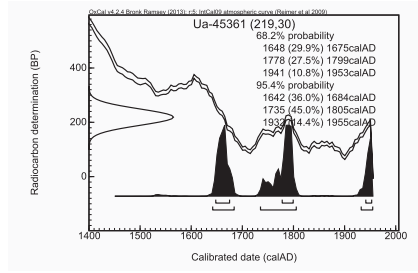
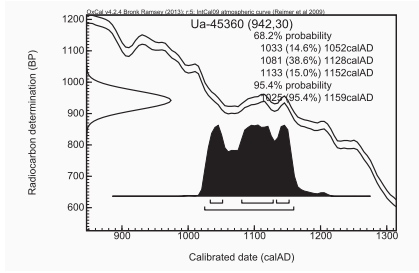
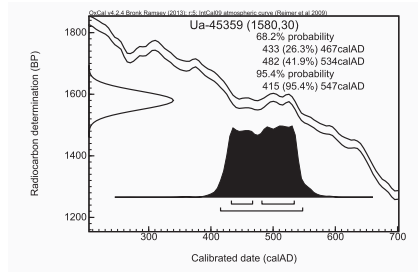
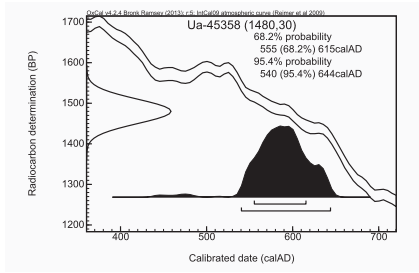
LAB NO.	SITE, SAMPLE NO.	MATERIAL	RADIOCARBON AGE BP	CALIBRATED 1 SIGMA	CALIBRATED 2 SIGMA	CONTEXT
Ua-45333	Avalsnes 192	Betula	174 +/- - 30	AD 1668- 1683, 1735- 1782, 1798- 1806, 1930-1950	AD 1657- 1698, 1725- 1815, 1835- 1878, 1916-1954	Posthole A32087
Ua-45334	Avalsnes 287	Salix/ populus	1516 +/- - 30	AD 535-601	AD 433-495, 505-615	Oven A37744
Ua-45335	Avalsnes 196	Betula	1669 +/- - 30	AD 345-415	AD 258-298, 320-431	Cooking Pit A37846
Ua-45336	Avalsnes 200	Corylus	1759 +/- - 30	AD 237-264, 275-333	AD 144-150, 170-193, 211-384	Oven A37770
Ua-45337	Avalsnes 220	Corylus	1687 +/- -30	AD 265-272, 335-406	AD 257-300, 318-421	Oven A39340, A401438
Ua-45338	Avalsnes 245	Betula	1283 +/- - 30	AD 677-721, 741-770	AD 661-779	Construction layer A25526, A20
Ua-45339	Avalsnes 238	Betula	1760 +/- - 30	AD 236-264, 275-333	AD 144-150, 170-193, 211-384	Waste layer A35150
Ua-45340	Avalsnes 286	Alnus	1669 +/- - 30	AD 345-415	AD 258-298, 320-431	Cooking pit A44578
Ua-45343	Avalsnes 467	Betula	1628 +/- - 30	AD 389-437, 489-530	AD 350-368, 380-536	Posthole A49699
Ua-45344	Avalsnes 1916	Betula	617 +/- - 30	AD 1299- 1326, 1344- 1370, 1380-1394	AD 1293- 1401	Ditch A18206



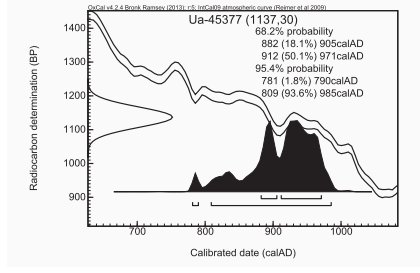
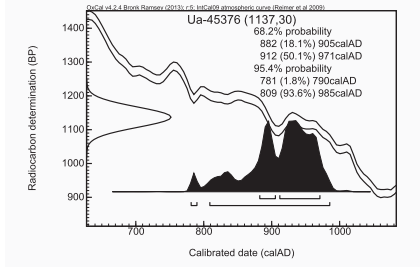
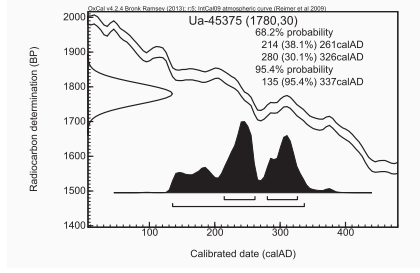
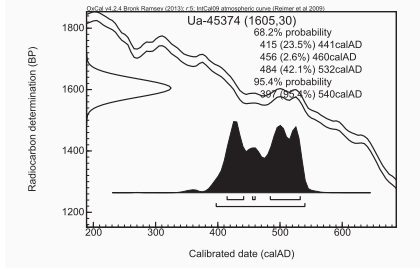
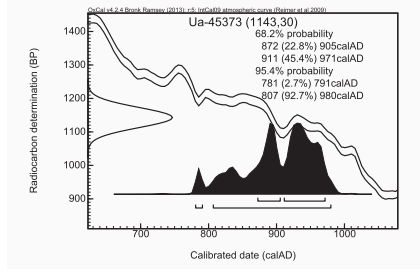
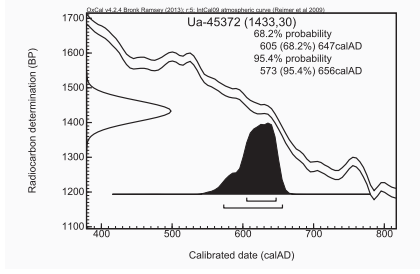
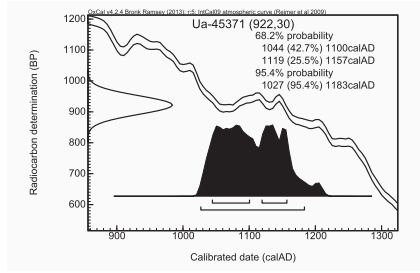
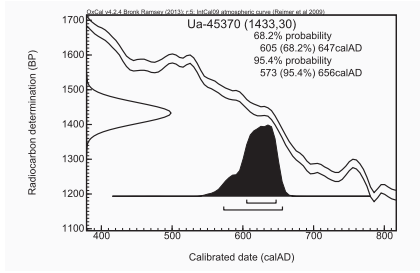
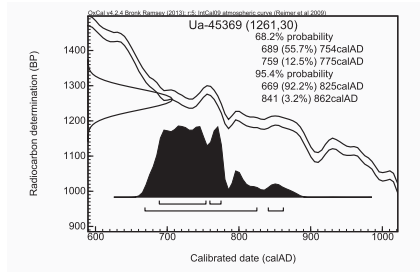
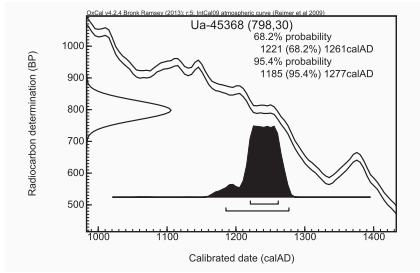
LAB NO.	SITE, SAMPLE NO.	MATERIAL	RADIOCARBON AGE BP	CALIBRATED 1 SIGMA	CALIBRATED 2 SIGMA	CONTEXT
Ua-45345	Avalsnes 407	Betula	1325 +/- 30	AD 656-692, 749-764	AD 650-723, 740-771	Posthole A50691
Ua-45347	Avalsnes 471	Salix/ populus (round-wood)	1502 +/- 30	AD 543-600	AD 440-485, 532-637	Hearth A48640, A13
Ua-45348	Avalsnes 418	Betula	1016 +/- 30	AD 990-1029	AD 905-912, 971-1047, 1091-1122, 1139-1149	Posthole A48560
Ua-45349	Avalsnes 425	Salix/ populus	1492 +/- 30	AD 548-605	AD 465-483, 533-644	Posthole A46825
Ua-45351	Avalsnes 374	Prunus	1757 +/- 30	AD 238-264, 276-333	AD 173-192, 211-385	Cooking pit A52790
Ua-45352	Avalsnes 376	Salix/ populus	3447 +/- 35	BC 1871-1845, 1812-1803, 1776-1731, 1719-1692	BC 1883-1683	Posthole A47199
Ua-45354	Avalsnes 190	Hordeum vulgare	2111 +/- 30	BC 182-92, BC 67-64	BC 338-330, 204-47	Activity surface/cultivation deposit A25600
Ua-45355	Avalsnes 183	Avena	21 +/- 30	AD 1707-1719, 1826-1833, 1886-1912	AD 1696-1726, 1813-1837, 1844-1852, 1876-1919	Burned deposit A35555
Ua-45356	Avalsnes 246	Hordeum vulgare	2201 +/- 30	BC 358-337, 331-283, 257-245, 235-204	BC 376-193	Cooking pit A40222
Ua-45357	Avalsnes 254	Hordeum vulgare	1749 +/- 30	AD 243-265, 272-335	AD 220-389	Cultivation deposit A34995



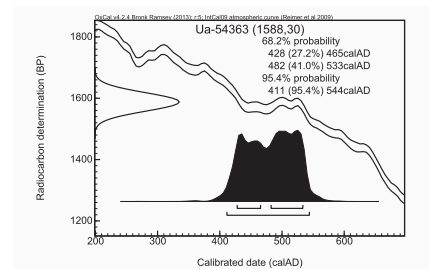
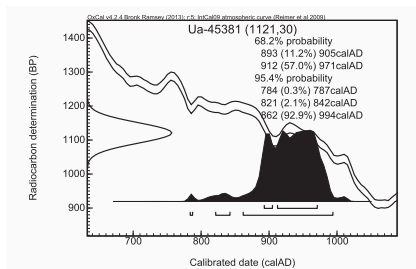
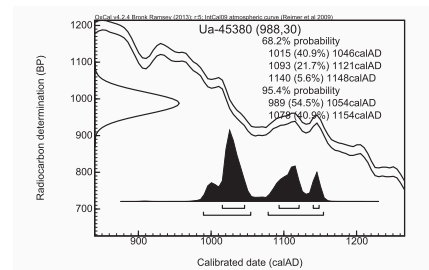
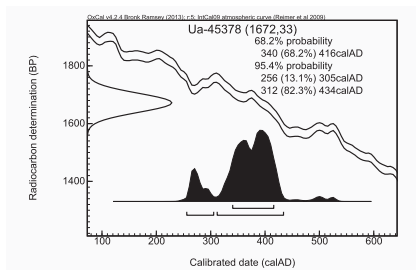
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Ua-45358	Avalsnes 273	Hordeum vulgare	1480 +/- - 30	AD 555-615	AD 540-644	Cooking pit A44483
Ua-45359	Avalsnes 276	Hordeum vulgare	1580 +/- - 30	AD 433-467, 482-534	AD 415-547	Cooking pit A44432
Ua-45360	Avalsnes 289	Hordeum vulgare	942 +/- - 30	AD 1033- 1052, 1081- 1128, 1133-1152	AD 1025- 1159	Oven A44031
Ua-45361	Avalsnes 296	Corylus avellana nutshell	219 +/- - 30	AD 1648- 1657, 1778- 1799, 1941-1953	AD 1642- 1684, 1735- 1805, 1932-1955	Burned deposit A45350
Ua-45362	Avalsnes 348	Hordeum vulgare	1525 +/- - 30	AD 444-448, 463-483, 533-595	AD 432-497, 502-604	Posthole A48688, A13
Ua-45363	Avalsnes 332	Hordeum vulgare	1558 +/- - 30	AD 434-493, 507-520, 527-544	AD 425-567	Posthole A45557, A13
Ua-45364	Avalsnes 329	Hordeum vulgare	1096 +/- - 30	AD 898-921, 945-986	AD 890-1014	Posthole A12036
Ua-45365	Avalsnes 355	Hordeum vulgare	1117 +/- - 30	AD 894-906, 911-972	AD 828-840, 866-996, 1006-1013	Posthole A50604
Ua-45366	Avalsnes 333	Hordeum vulgare	1125 +/- - 30	AD 890-905, 912-971	AD 783-788, 818-843, 860-991	Posthole A12060
Ua-45367	Avalsnes 340	Hordeum vulgare	1126 +/- - 30	AD 890-904, 913-970	AD 783-788, 817-843, 860-991	Posthole A51007



LAB NO.	SITE, SAMPLE NO.	MATERIAL	RADIOCARBON AGE BP	CALIBRATED 1 SIGMA	CALIBRATED 2 SIGMA	CONTEXT
Ua-45368	Avalsnes 343	Hordeum vulgare	798 +/- - 30	AD 1221- 1261	AD 1185- 1277	Layer A12780
Ua-45369	Avalsnes 439	Hordeum vulgare	1261 +/- - 30	AD 689-754, 759-775	AD 669-825, 841-862	Posthole A10161
Ua-45370	Avalsnes 410	Hordeum vulgare	1433 +/- - 30	AD 605-647	AD 573-656	Posthole A49884
Ua-45371	Avalsnes 414	Hordeum vulgare	922 +/- - 30	AD 1044- 1100, 1119-1157	AD 1027- 1183	Posthole A46764
Ua-45372	Avalsnes 432	Hordeum vulgare	1433 +/- - 30	AD 605-647	AD 573-656	Posthole A50677
Ua-45373	Avalsnes 419	Hordeum vulgare	1143 +/- - 30	AD 872-905, 911-971	AD 781-791, 807-980	Posthole A49724
Ua-45374	Avalsnes 391	Hordeum vulgare	1605 +/- - 30	AD 415-441, 456-460, 484-532	AD 397-540	Posthole A46847
Ua-45375	Avalsnes 413	Hordeum vulgare	1780 +/- - 30	AD 214-261, 280-326	AD 135-337	Posthole A50424
Ua-45376	Avalsnes 417	Hordeum vulgare	1137 +/- - 30	AD 882-905, 912-971	AD 781-790, 809-985	Ditch A12178
Ua-45377	Avalsnes 334	Hordeum vulgare	1137 +/- - 30	AD 882-905, 912-971	AD 781-790, 809-985	Cooking pit A10438

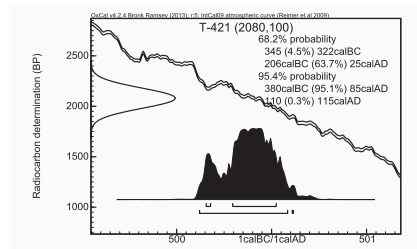
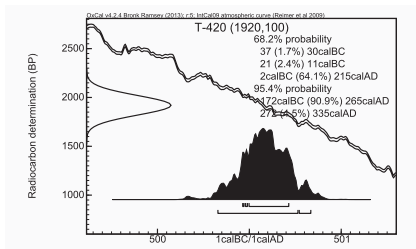
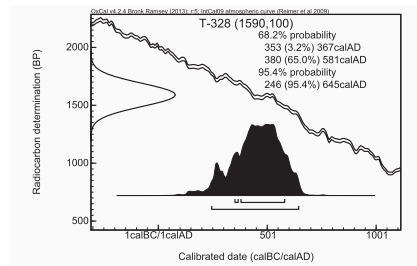
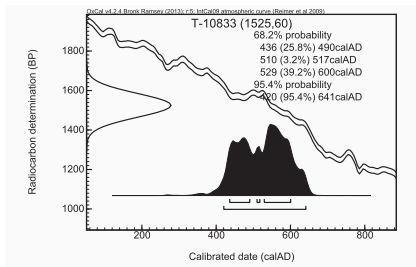


LAB NO.	SITE, SAMPLE NO.	MATERIAL	RADIOCARBON AGE BP	CALIBRATED 1 SIGMA	CALIBRATED 2 SIGMA	CONTEXT
Ua-45378	Avalsnes 385	Avena	1672 +/- 33	AD 340-416	AD 256-305, 312-434	Posthole A46437
Ua-45380	Avalsnes 450	Hordeum vulgare	988 +/- 30	AD 1015-1046, 1093-1121, 1140-1148	AD 989-1054, 1078-1154	Posthole A52453
Ua-45381	Avalsnes 382	Hordeum vulgare	1121 +/- 30	AD 893-905, 912-971	AD 784-787, 821-842, 862-994	Posthole A53576
Ua-54363	Avalsnes 332	Hordeum vulgare	1558 +/- 30	AD 428-465, 482-533	AD 411-533	Posthole A45557, A13

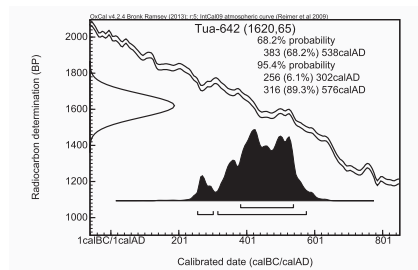
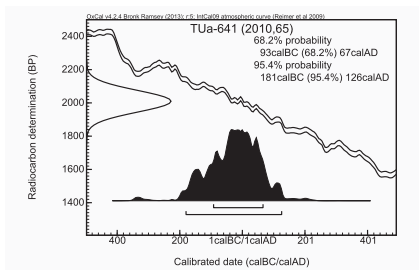
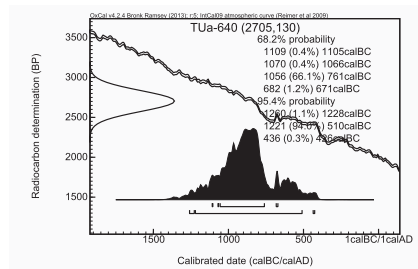
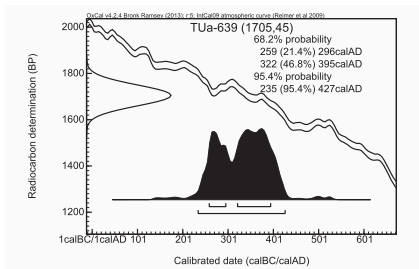
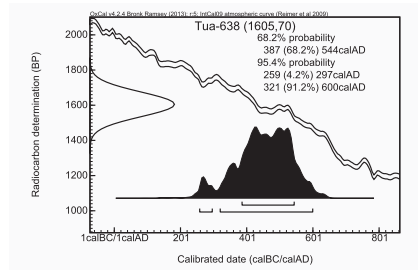
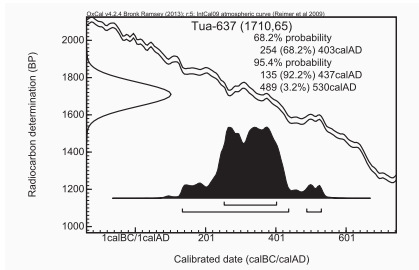
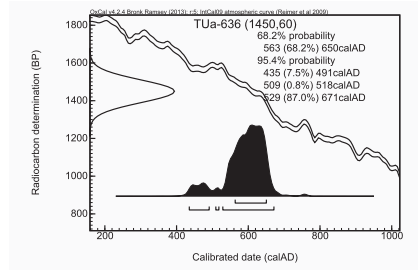
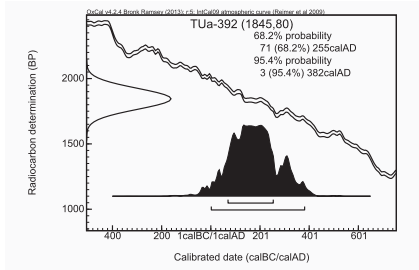
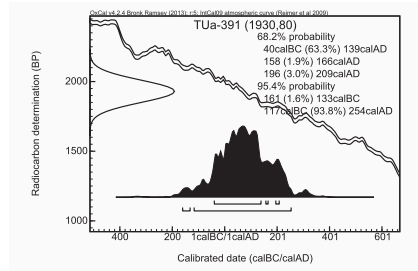
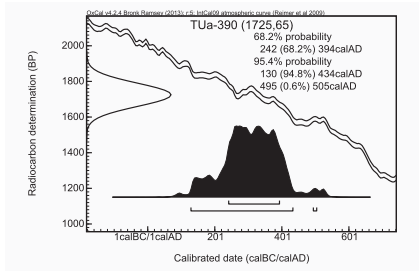


Courtyard Sites

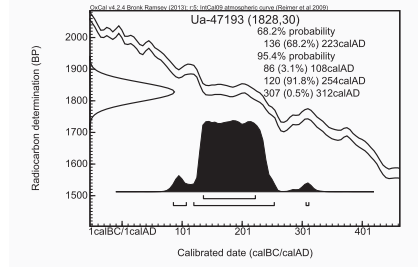
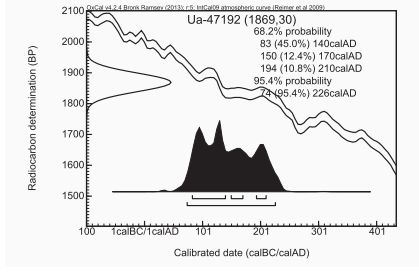
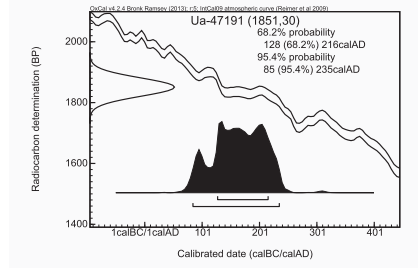
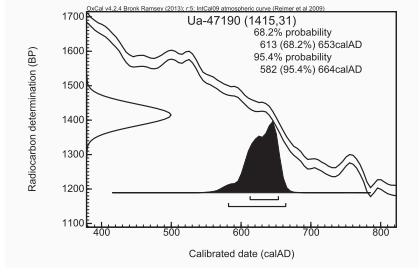
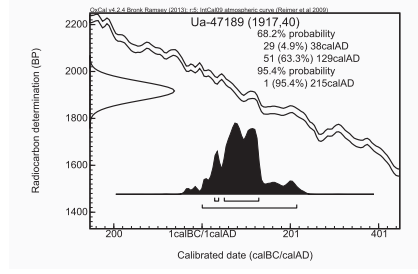
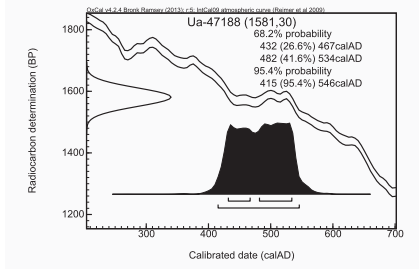
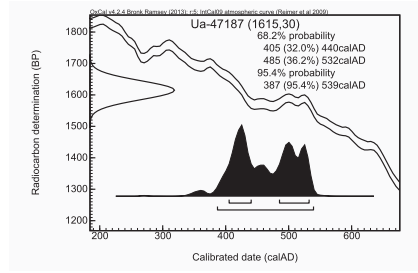
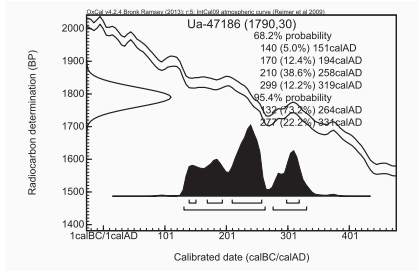
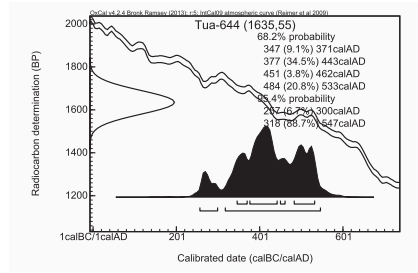
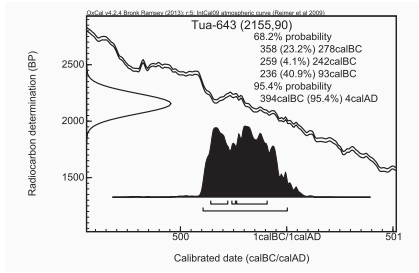
LAB NO.	SITE, SAMPLE NO.	MATERIAL	RADIOCARBON AGE BP	CALIBRATED 1 SIGMA	CALIBRATED 2 SIGMA	CONTEXT
T-328	Klau- haugane	Charcoal	1590 +/- 100	AD 353–367, 380–581	AD 246–645	Building 21, wall trench
T-420	Klau- haugane	Charcoal	1920 +/- 100	BC 37–30, 21–11, BC 2–AD 215	BC 172–AD 265, AD 272–335	Building 21, hearth
T-421	Klau- haugane	Charcoal	2080 +/- 100	BC 345–322, BC 206–AD 25	BC 380–AD 85, AD 110–115	Building 21, hearth
T-10833	Leksaren	Betula, salix	1525 +/- 60	AD 436–490, 510–517, 529–600	AD 420–641	Building 12, hearth 3



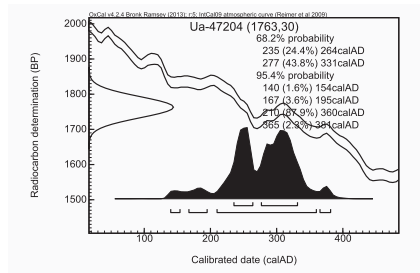
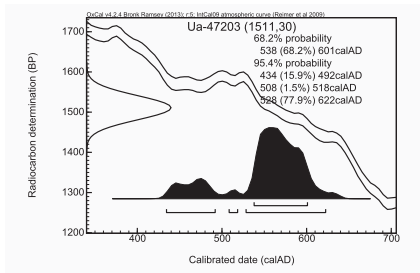
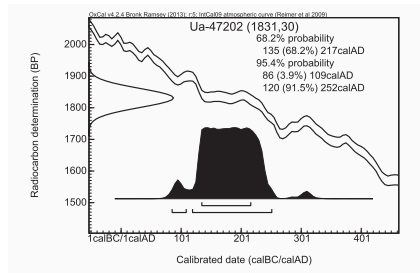
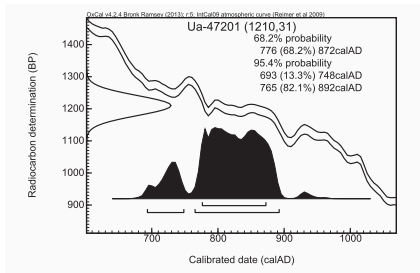
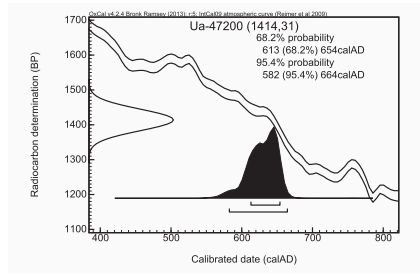
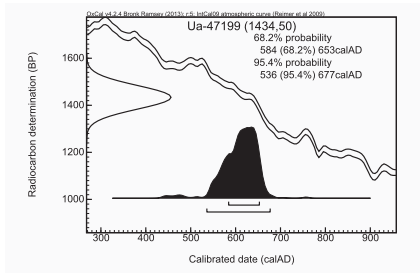
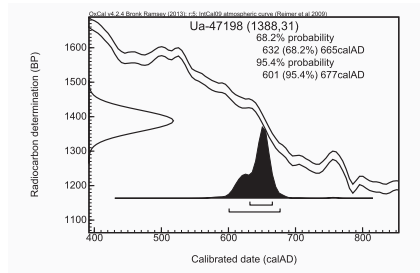
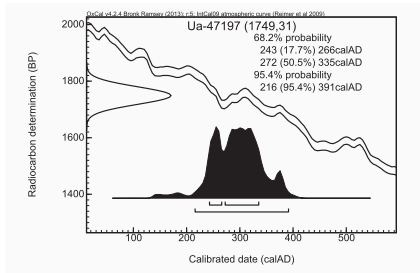
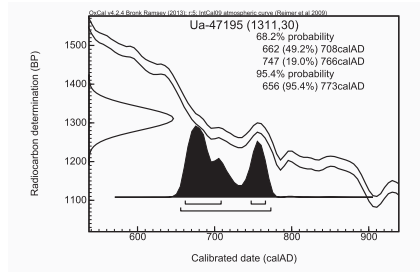
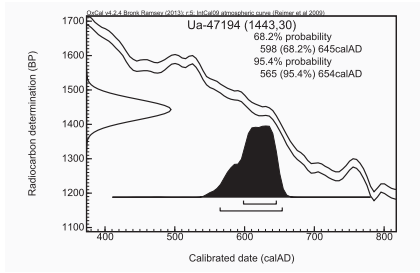
LAB NO.	SITE, SAMPLE NO.	MATERIAL	RADIOCARBON AGE BP	CALIBRATED 1 SIGMA	CALIBRATED 2 SIGMA	CONTEXT
Tua-390	Leksaren	Betula	1725 +/- - 65	AD 242-394	AD 130-434, 495-505	Building 9, heart 11
Tua-391	Leksaren	Betula	1930 +/- - 80	BC 40- AD 139, 158-166, 196-209	BC 161-133, BC 117-AD 254	Building 9, layer
Tua-392	Leksaren	Food residue	1845 +/- - 80	AD 71-255	AD 3-382	Building 12
Tua-636	Leksaren	Betula	1450 +/- - 60	AD 563-650	AD 435-491, 509-518, 529-671	Building 2, hearth 6
Tua-637	Leksaren	Bark	1710 +/- - 65	AD 254-403	AD 135-437, 489-530	Building 15, culture layer
Tua-638	Leksaren	Betula	1605 +/- - 70	AD 387-544	AD 259-297, 321-600	Central mound
Tua-639	Leksaren	Food residue	1705 +/- - 45	AD 259-296, 322-395	AD 235-427	Building 2
Tua-640	Leksaren	Food residue	2705 +/- - 130	BC 1109- 1105, 1070- 1065, 1056-761, 682-671	BC 1260- 1228, 1221-510, 436-426	Building 2
Tua-641	Leksaren	Food residue	2010 +/- - 65	BC 93-AD 67	BC 181-AD 126	Buildng 9
Tua-642	Leksaren	Food residue	1620 +/- - 65	AD 383-538	AD 256-302, 316-576	Building 15



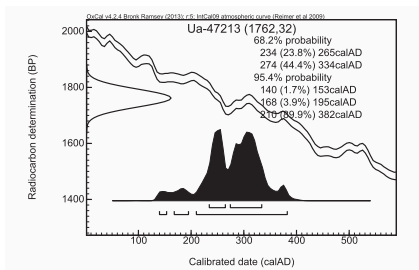
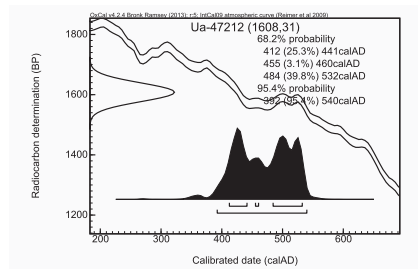
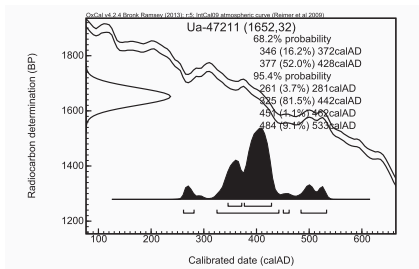
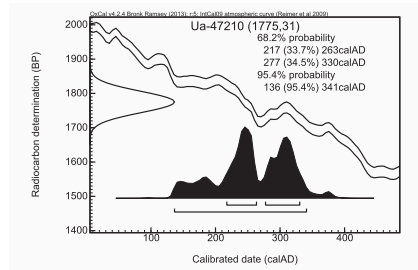
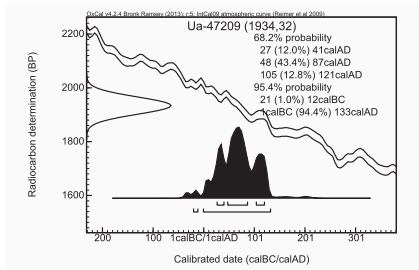
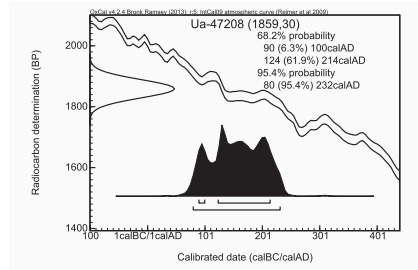
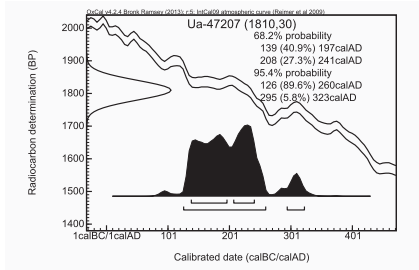
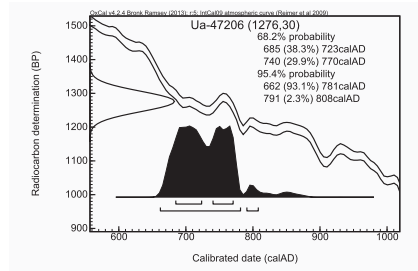
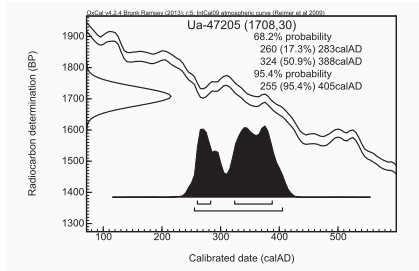
LAB NO.	SITE, SAMPLE NO.	MATERIAL	RADIOCARBON AGE BP	CALIBRATED 1 SIGMA	CALIBRATED 2 SIGMA	CONTEXT
Tua-643	Leksaren	Food residue	2155 +/- - 90	BC 358-278, 259-242, 236-93	BC 394- AD 4	Building 15
Tua-644	Leksaren	Food residue	1635 +/- - 55	AD 347-371, 377-443, 451-462, 484-533	AD 257-300, 318-547	Central mound
Ua-47186	Øygarden	Betula	1790 +/- - 30	AD 140-151, 170-194, 210-258, 299-319	AD 132-264, 277-331	Building 2, hearth 8
Ua-47187	Øygarden	Bark, betula	1615 +/- - 30	AD 405-440, 485-532	AD 387-539	Building 3, cultural deposit 1
Ua-47188	Øygarden	Betula	1581 +/- - 30	AD 432-467, 482-534	AD 415-546	Building 4, cultural deposit 5
Ua-47189	Øygarden	Betula	1917 +/- - 40	AD 29-38, 51-129	AD 1-215	Building 5, cultural deposit 7
Ua-47190	Øygarden	Bark, betula	1451 +/- - 31	AD 613-653	AD 582-664	Building 6, cultural deposit 15
Ua-47191	Øygarden	Betula	1851 +/- - 30	AD 128-216	AD 85-235	Building 7, cultural deposit 3
Ua-47192	Øygarden	Bark	1869 +/- - 30	AD 83-140, 150-170, 194-210	AD 74-226	Building 8, cultural deposit 7
Ua-47193	Øygarden	Bark	1828 +/- - 30	AD 136-223	AD 86-108, 120-245, 307-312	Building 8, cultural deposit 12



LAB NO.	SITE, SAMPLE NO.	MATERIAL	RADIOCARBON AGE BP	CALIBRATED 1 SIGMA	CALIBRATED 2 SIGMA	CONTEXT
Ua-47194	Øyarden	Betula	1443 +/- - 30	AD 598-645	AD 565-654	Building 10, hearth 20
Ua-47195	Klau- haugane	Corylus	1311 +/- - 30	AD 662-708, 747-766	AD 656-773	Building 1, cultural deposit 3
Ua-47197	Klau- haugane	Betula	1749 +/- - 31	AD 243-266, 272-335	AD 216-391	Building 3, hearth 125
Ua-47198	Klau- haugane	Betula	1388 +/- - 31	AD 632-665	AD 601-677	Building 4, Cultural layer 10
Ua-47199	Klau- haugane	Bark	1434 +/- - 50	AD 584-653	AD 536-677	Building 4, Cultural layer 76
Ua-47200	Klau- haugane	Betula	1414 +/- - 31	AD 613-654	AD 582-664	Building 4, hearth 132
Ua-47201	Klau- haugane	Betula	1210 +/- - 31	AD 776-872	AD 693-748, 765-892	Building 10, Cultural layer 238
Ua-47202	Klau- haugane	Betula	1831 +/- - 30	AD 135-217	AD 86-109, 120-252	Building 10, Cultural layer 238
Ua-47203	Klau- haugane	Betula	1511 +/- - 30	AD 538-601	AD 434-492, 508-518, 528-622	Building 13, cultural layer 33
Ua-47204	Klau- haugane	Betula	1763 +/- - 30	AD 235-264, 277-331	AD 140-154, 167-195, 210-360, 365-384	Building 16/17, cultu- ral layer 255



LAB NO.	SITE, SAMPLE NO.	MATERIAL	RADIOCARBON AGE BP	CALIBRATED 1 SIGMA	CALIBRATED 2 SIGMA	CONTEXT
Ua-47205	Klau- haugane	Corylus	1708 +/- - 30	AD 260-283, 324-388	AD 255-405	Building 16/17, post- hole 287
Ua-47206	Klau- haugane	Betula	1276 +/- - 30	AD 685-723, 740-770	AD 662-781, 791-808	Building 19, cultural layer 1
Ua-47207	Leksaren	Betula	1810 +/- - 30	AD 139-197, 208-241	AD 126-260, 295-323	Building 3, cultural layer 4
Ua-47208	Leksaren	Betula	1859 +/- - 30	AD 90-100, 124-214	AD 80-232	Building 3, cultural layer 182
Ua-47209	Leksaren	Betula	1934 +/- - 32	AD 27-41, 48-87, 105-121	BC 21-12, BC 1-AD 133	Building 4, cultural layer 67
Ua-47210	Leksaren	Betula	1775 +/- - 31	AD 217-263, 277-330	AD 136-341	Building 5, cultural layer 47
Ua-47211	Leksaren	Bark	1652 +/- - 32	AD 346- 372, AD 377-428	AD 261-281, 325-442, 451-462, 484-533	Building 6, charcoal...
Ua-47212	Leksaren	Betula	1608 +/- - 31	AD 412-441, 455-460, 484-532	AD 392-540	Building 7, hearth 25
Ua-47213	Leksaren	Betula	1762 +/- - 32	AD 234- 265, AD 274-334	AD 140-153, 168-195, 210-382	Building 8, cultural layer 23



References

Icelanders are listed according to their first name. Ä, Æ, Å, and Á are alphabetised as A, while Ö, Ø, Q, and Ó are alphabetised as O. Bibliographical abbreviations are listed pp. XIII–XIV.

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Appendix I: The ARM Project Council, Advisory Group, Staff, and Authors

The Project Council

The ARM Project Council, scheduled to meet twice annually, is a forum for contact and information-sharing between the ARM Project and its main funder, Karmøy Municipality. The Council's role is to ensure that the project is conducted within contract and budget, making no decisions regarding the project itself. Council members are appointed by University of Oslo (UiO, up to 6 members) and Karmøy Municipality (KM, up to 6 members).

Professor Emeritus Knut Helle, University of Bergen (appointed by UiO, 2007–15)

Head of Research Mads Ravn, Archaeological Museum, University of Stavanger (appointed by UiO, 2007–11)

Professor Siv Kristoffersen, Archaeological Museum, University of Stavanger (appointed by UiO, 2011–17)

Archaeologist Frans-Arne Stylegar, Vest-Agder County Council (appointed by UiO, 2007–17)

Associate Professor Torun Zachrisson, University of Stockholm (appointed by UiO, 2007–17)

Professor Dagfinn Skre, Museum of Cultural History, University of Oslo (UiO, 2007–17)

Mayor Kjell Arvid Svendsen, Karmøy Municipality (appointed by KM, 2007–17)

Mayor Aase Simonsen, Karmøy Municipality (appointed by KM, 2011–15)

Mayor Jarle Nilsen, Karmøy Municipality (appointed by KM, 2015–17)

Chief administrative officer Arnt Mogstad, Karmøy Municipality (appointed by KM, 2007–13)

Chief administrative officer Sigurd Eikje, Karmøy Municipality (appointed by KM, 2013–17)

County Mayor Janne Johnsen, Rogaland County Council (appointed by KM, 2011–15)

Head of Culture, Egil Harald Grude, Rogaland County Council (appointed by KM, 2007–10)

Marit Synnøve Veia, Karmøy Municipality (appointed by KM, 2007–17)

Sigurd Steen Aase, Haugesund (appointed by KM, 2007–17)

The Directorate for Cultural Heritage has appointed an observing member of the Project Council:

Advisor Bjørn-Håkon Eketuft Rygh (2007–13) and Senior Advisor Atle Omland (2013–17).

The Advisory Group

The task of the Advisory Group has been to offer scholarly support to the project. As the project entered the excavation phase in 2011, new members were appointed to strengthen the competence on excavation methods and strategies. The members have been:

Head of Culture, Egil Harald Grude, Rogaland County Council (2007–10)

Professor Emeritus Knut Helle, University of Bergen (2007–10)

Researcher Olle Hemdorff Archaeological Museum, University of Stavanger (2011–10)

Professor Mads Kähler Holst, Århus University (2011–17)

Professor Frode Iversen, Museum of Cultural History, University of Oslo (2007–10)

Professor Lars Jørgensen, National Museum of Denmark (2011–16)

Researcher John Ljungkvist, Uppsala University (2011–17)

Archaeologist Trond Meling, Rogaland County Council (2011–15)

Dr. Arnfrid Opedal, Stavanger (2007–10)

Associate Professor Unn Pedersen (2011–2019)
Archaeologist Lars Pilø, Oppland County Council (2007–17)
Researcher Morten Ramstad, University of Bergen (2011–17)
Archaeologist Frans-Arne Stylegar, Vest-Agder County Council (2007–17)
Marit Synnøve Vea, Karmøy Municipality (2007–10)
Associate Professor Torun Zachrisson, University of Stockholm (2007–10)

The Project Staff

Geir Ove Åmodt, Operator, mechanical excavator (2011–12)
Egil Lindhart Bauer, Excavation manager (2011–14)
Ingvild Tinglum Bøckman, Field archaeologist, GIS specialist, Project assistant (2011–19)
Rebecca Cannell, Field archaeologist (2011–12)
Marianne Hem Eriksen, Field archaeologist (2011)
Magnar Mojaren Gran, Field archaeologist (2011–12)
Christoffer Hagberg, Field archaeologist (2012)
Hans Christian Hauge, Operator, mechanical excavator (2011)
Silje Lillevik, Field archaeologist (2011)
Knut Steinar Løften, Operator, mechanical excavator (2011)
Tor-Geir Løften, Operator, mechanical excavator (2012)
Stella Macheridis, Field archaeologist (2012)
Jessica Leigh McGraw, Field archaeologist (2011–12)
Erlend Norlie, Field archaeologist (2012)
Mari Arentz Østmo, Head of excavations, PhD candidate (2007–18)
Maryon Evelyn Østvik, Field archaeologist (2011)
Josefine Kristin Sandvik, Field archaeologist (2012)
Anja Nordvik Sætre, GIS specialist (2011–12)
Andreas Skredsvik, Field archaeologist (2011–12)
Syver Smukkestad, Field archaeologist (2011–12)

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