The Rhynie Environs Archaeological Project (REAP) was initiated in 2005 as a three year (Phase 1) programme of research and fieldwork based in and around the village of Rhynie; the main aim was to study the landscape context of an important group of Pictish
symbol stones. Eight symbol stones are known from the village, including one, the Craw Stane, which is likely to be in its original position. A series of cropmark features have also been identified surrounding the ‘Craw Stane,’ and the substantial early medieval remains are set within an area rich with prehistoric monuments. This article outlines the results of geophysical survey and a small targeted excavation conducted in 2005-2006. The surveys included a substantial gradiometer and a smaller resistivity survey that aimed to characterise and explore the extent and survival of archaeology around the symbol stone findspots. The results showed several discrete anomalies; one of these was targeted by a small-scale excavation and proved to be a burnt Middle Bronze Age timber structure. The article highlights the survey and excavation within its landscape context and provides a summary excavation report with specialist reports for the MBA building.

INTRODUCTION

The Rhynie Environs Archaeological Project (REAP) was initiated in 2005 as a three year (Phase 1) programme of research and fieldwork based in and around the village of Rhynie; the main aim was to study the landscape context of an important group of Pictish symbol stones. Rhynie is the location of a distinct and unusual concentration of Class I symbol stones, which date from around the AD 5th to 7th centuries (Fraser 2008: 38-40). Eight symbol stones are known from the village, including one, the Craw Stane, which, although reset, is likely to be in its original position (NJ 49749 26345; Fraser and Halliday 2007: 118). A series of cropmark features have also been identified surrounding the Craw Stane, (Halliday 2007: 100; Gondek and Noble 2010) and the substantial early
medieval remains are set within an area rich with prehistoric monuments. This article outlines the results of a geophysical survey and small targeted excavation conducted in 2005-2006. The surveys included a substantial gradiometer and a smaller resistivity survey that aimed to characterise and explore the extent and survival of archaeology around the symbol stone findspots. The results showed several discrete anomalies; one of these was targeted by a small-scale excavation and proved to be a burnt Mid Bronze Age timber structure (NJ 49742 26424). The work was undertaken as Phase One of the Rhynie Environs Archaeological Project, directed by Gordon Noble of the University of Aberdeen and Meggen Gondek of the University of Chester.

Figure 1: Aerial photograph showing the Craw Stane cropmark complex (© Aberdeen Archaeology Service and Base map: Crown Copyright/database right 2013. An Ordnance Survey/EDINA supplied service).

Remarkably little modern invasive work or even non-invasive survey has been done specifically to target the archaeological context of symbol stones, despite the attention they receive in art historical studies and as social and ideological markers of the early
medieval period (Henderson and Henderson 2004: 167-174). Those found in recent archaeological investigations have largely come from investigations of settlement sites, where Class I stones are either built into, or possibly reused in, structures such as at Pool, Sanday (Orkney) and at Old Scatness (Shetland) (Hunter 2007; Dockrill et al. 2010). The symbol carved bedrock outcrops at Dunadd (Argyll) and Trusty’s Hill (Dumfries and Galloway) are also from fortified settlement sites, which may also be the context of some of the Rhynie monuments (Lane and Campbell 2000; Toolis and Bowles 2013; Noble et al. 2013). Class I stones also occur in association with burial cairns, such as at Ackergill (Caithness), Dunrobin (Sutherland) and Garbeg (Inverness-shire) (Ashmore 1980; Close-Brooks 1980; Ritchie 2011: 133 – 134). However, they also seem to have been used for other purposes including as cist covers (for example, at Inchyra (Perthshire)) and landscape markers (Driscoll 2000: 249; Clarke 2007: 21-22).

Non-invasive, sometimes followed by invasive, work has been conducted at a handful of potentially in situ symbol stone (Classes I and II) sites. Excavations in the near vicinity of the symbol stone at Blackford Farm (Perthshire) in 2011 revealed Iron Age souterrains and early medieval cist burials in addition to later activity (Dingwall 2011). Survey and excavation at Tillytarmont (Aberdeenshire) in the 1970s found stone platforms or cairns where five symbol stones have been recovered from the 19th century onwards (Woodham 1975). Geophysical survey around the Class II St. Orland’s Stone (Angus) also suggested features of uncertain date or function where keyhole evaluation had previously identified potential survival of early medieval deposits (Murray 2008; O’Grady 2009). Keyhole excavations at both Sueno’s Stone (Morayshire) and the site of the Hilton of
Cadboll stone (Ross and Cromarty) also highlighted how complex the archaeology around sculpture settings could be (McCullagh 1995; James 2008). On balance, these non-invasive surveys and limited excavations have shown potential, but have not been able to provide definitive contexts for the early medieval use and landscape of the carved stones.

The REAP project was established to instigate an archaeological approach to Pictish symbol stones that aimed to address the (long-term) landscape context of these iconic monuments at a place where a number of symbol stones have been recovered. The overall aims of the project include: promoting landscape and contextualised approaches to early medieval archaeology, interpreting the long-term evolution of the Rhynie area, and investigating the nature and date of the considerable cropmark evidence around the village. Fieldwork and excavation in 2005 began to uncover the context of the stones at Rhynie, and showed that these were part of a landscape populated with significant prehistoric remains as well as contemporary activity. More recent work by the REAP project (Phase Two) in 2011 and 2012 revealed that the Craw Stane itself stood in conjunction with a likely contemporary high status fortified settlement of the AD 5th to 6th century (Noble and Gondek 2011; Noble et al 2013). The following report outlines the results of the geophysical survey around the Craw Stane and examines the archaeological remains within the study area focusing in particular on the prehistoric landscape to contextualise the 2005 excavation of the Middle Bronze Age structure.

THE RHYNIE LANDSCAPE
Extensive archaeological surveys of the area can be found in the RCAHMS volume on Donside (2007), which highlights the depth of chronology in this region. This section will outline the known prehistoric to early medieval activity in the area, setting the symbol stones, the geophysical survey and the excavated Bronze Age structure into context. The following discussion focuses on a study area of 6.5km² centred on the Craw Stane roughly defined at its outer limits by the locations of hillforts (Tap o’Noth (NJ 4845 2930), Cairnmore (NJ 5035 2494) and Wheedlemont (NJ 4729 2605)) around the Water of Bogie.
Figure 2: Earlier prehistoric activity in the Rhynie landscape. (Collated from records in the RCAHMS Canmore database. Base map: Crown Copyright/database right 2013. An Ordnance Survey/EDINA supplied service).

A number of Neolithic – Bronze Age monuments occur in the immediate environs of Rhynie. For ease of display these are grouped into general categories in Figure 2 (See Table 1).

<table>
<thead>
<tr>
<th>General category</th>
<th>Monument types</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceremonial</td>
<td>Standing stones, stone circles, recumbent stone circles</td>
</tr>
<tr>
<td>Findspot</td>
<td>Any unallocated or generalised find(s) not associated with another site (such as ploughed up carved stone balls or axes, stray metal finds, etc.)</td>
</tr>
<tr>
<td>Funerary</td>
<td>Recorded cairns (not clearance or field system), finds of urns or beakers, recorded cist burials</td>
</tr>
<tr>
<td>Hoard</td>
<td>Recorded hoards, any type</td>
</tr>
<tr>
<td>Rock-art</td>
<td>Any cup or cup and ring marked monument (not part of standing stone or stone circle)</td>
</tr>
<tr>
<td>Settlement</td>
<td>Hut circles or platforms, ring-ditch cropmarks, field systems, enclosure cropmarks of indeterminate date, possible activity on Tap o’Noth</td>
</tr>
</tbody>
</table>

Table 1: Summary of general categories of site based on RCAHMS classifications and used in Figure 2.

The sites concentrate to the west of Rhynie nestled around a network of small burns between the hills of Tap O’Noth to the north and Wheedlemont to the south, where several cup marked stones and cairns are located. This area forms a notable cluster of
rock-art in Donside (Gannon et al. 2007: 73; George Currie pers comm), but in general
the distribution and nature of the recorded prehistoric monuments is typical for the region
and most of Scotland. A hoard of Bronze Age flat axes is also recorded as coming from
the base of Finglenny Hill to the northwest of Tap O’Noth, although the exact findspot is
unknown (Coles 1969: 102; Cowie 1988 and 2007). As is common for Donside,
evidence for settlement is relatively rare. The evidence includes hut circle remains in
upland areas, sometimes with accompanying field systems, and cropmarks of ring-
ditches; without excavation it is impossible to be certain these represent prehistoric
settlement, but generally these structures are categorised as Bronze – Iron Age settlement
features (Halliday 2007: 82-109). These features often occur as small unenclosed groups
with ploughed out ring-ditches occurring in the valleys and hut circle/platform remains
surviving on the higher ground. Some ring-ditch cropmarks may represent ploughed out
barrows or cairns. Generally, these structures are between 7-11m in diameter and ring-
ditches vary greatly in surviving depth (Halliday 2007: 82-83). In the immediate Rhynie
area none of the hut circles, possible hut circles or ring ditches have been excavated.
Like the Rhynie example discussed below, other hut circles and ring-ditches nearby have
been found on slightly elevated ground, often on slopes such as the Lochrie hut
circle/ring ditch cropmarks to the north on the slopes of Tap O’Noth and the possible
Stonedike hut circles to the SE in the Correen Hills (Ralston 1989).

Immediately around Rhynie, other prehistoric remains are well represented. When
Rhynie symbol stones no. 2 and 3 were found during road building, they were found in
association with two apparently uncarved monoliths, which may be prehistoric standing
Amongst the symbol stones from Rhynie are two possible reused prehistoric standing stones. Rhynie no. 5 has cupmarks on its non-symbol face – as it was found in the foundations of the church, its original location cannot be mapped. The Craw Stane has no prehistoric carvings, but its general shape and large size has encouraged the (perhaps unprovable) assumption that this is a potential reused prehistoric standing stone (Clarke 2007: 39). The REAP Phase Two excavations examining the cropmark complex around the Craw Stane have not found any evidence of Neolithic or Bronze Age activity apart from a redeposited Bronze Age faience bead in an upper fill of the inner ditch (Gondek and Noble 2012). However, in 2005, an eroding cattle scrape to the north of the Craw Stane produced several sherds of an AOC Beaker, which may indicate a burial in the vicinity (Cook 2005). In addition there is a suspected Bronze Age cairn, the ‘Bell Knowe’, which stands about 200m to the north of the Craw Stane. The Bell Knowe is an unexcavated cairn that survives to 1.7m in height and 19m in diameter that was re-used in the medieval period as the base of a wooden support that held the church bell (Eeles and Clouston 1958: 102; Fraser and Halliday 2007: 121).
Figure 3: Iron age to early medieval activity in the Rhynie landscape. (Collated from records in the RCAHMS Canmore database. Base map: Crown Copyright/database right 2013. An Ordnance Survey/EDINA supplied service).

Iron Age remains in the study area are most spectacularly represented by Tap O’Noth hillfort. The fort dominates the skyline and is a vitrified oblong type. Recent dating at Dunnideer, also in Aberdeenshire, suggests that this type of fort dates to the Middle Iron Age (c. 500 – 200 BC); however, there is no Iron Age radiocarbon date, yet, from Tap
O’Noth itself (RCAHMS 2007: 96-100, 101-105; Cook 2010: 87). Tap O’Noth is the second highest hillfort in Scotland and occupies an imposing position. It has two main enclosures: the inner vitrified stone wall and an outer stone rampart set much further down the slope. The inner ramparts enclose an area approximately 85 x 30m and have no break for an entrance. Within the interior, there is a possible well or cistern and foundations of a substantial roundhouse that may predate the ramparts (Halliday 2007: 103-105). The outer rampart now has many gaps, but it is has been heavily robbed; between the two enclosures are a number of possible trackways and house platforms (Halliday 2007: 105).

Building on the survey and classification work of the RCHAMS, the Hillforts of Strathdon Project (Cook 2011) targeted six smaller hillforts in the region with the objective of exploring the relationships between and sequences of activity on unenclosed and enclosed later Iron Age – Early Medieval settlement. Within the Rhynie environs, Cook investigated the hillfort at Cairnmore: a double-banked sub oval fort. The inner rampart at Cairnmore consists of a thick stone wall enclosing a small area (64m x 48m) and the outer external ditch and rampart are found only on the south-east side of the fort, by the inner entrance (Cook 2011: 216-217; Halliday 2007: 101). Cook’s keyhole excavation of the fort’s ramparts produced a radiocarbon date suggesting the fort was built and destroyed within a relatively short time span, AD 410 – 630 (Cook 2011: 216-217). Evidence of non-ferrous metalworking was also found including pin and brooch moulds, and this activity is often associated with sites of relatively high status. The date of Cairnmore corresponds to the floruit of the Rhynie Craw Stane fortified enclosure
complex, excavated as part of REAP Phase Two, which also produced a series of radiocarbon dates focused on the AD 5\textsuperscript{th} – 6\textsuperscript{th} centuries (Noble et al. 2013). The enclosure at Wheedlement (Cnoc Cailliche) has not been subject to excavation, but may include both Iron Age and Early Medieval phases – morphologically the fort is similar to that at Cairnmore and the Craw Stane complex, but a fragment of putative ‘Iron Age’ pottery has also been recorded from the site (PSAS 1974; Halliday 2007: 99-100).

Only one unenclosed settlement dated to the Iron Age has been investigated in the study area and this was found during evaluation of the Craw Stane complex. This consisted of a very truncated ring-ditch roundhouse measuring about 8m in diameter and dated to the 4\textsuperscript{th}-3\textsuperscript{rd} century BC (Gondek and Noble 2011). Some of the hut circles and ring-ditch cropmarks mentioned above may of course represent Iron Age structures in the study area (Fig 2). Iron Age settlement is also represented within this area by the record of a souterrain, infilled before the 20\textsuperscript{th} century, at Corsehill, but its exact location is unknown (Simpson 1932: 86). A number of other souterrains referenced in antiquarian accounts or recorded as cropmarks are found to the west and south of the study area, particularly to the south at Kildrummy (Halliday 2007: 88 – 89). A few cropmark sites of enclosures may also indicate Iron Age/Early Medieval settlement, but without excavation their function and date cannot be certain. One possible enclosed settlement site is an arc of substantial ditch on a hill near Castlehill, which suggests an oval enclosure (c.35-40m diameter) with possible interior pits or other features (Halliday 2007: 94; Greig 1995: 33). The other cropmark sites are close to Rhynie village, but are less suggestive of settlement. To the southwest of the village, Grieg identified two oval/circular enclosures
with possible internal features (Grieg 1995: 32). Immediately south of the village, near the modern medical centre, are cropmarks of two large square enclosures. On morphological grounds, the best parallel for these features is a square enclosure excavated at Forteviot, Perthshire, which has been likened in form and character to later Iron Age ritual enclosures (Campbell and Gondek 2009). However, evaluative excavation of this area by REAP in 2013 identified a series of ring-ditch structures in this area as well as two square barrow burials, one with a cist grave. The chronological relationship between the ring ditches, large square enclosures and the cemetery currently remains undefined (Gondek, Noble and Sveinbjarnarson 2013).
Figure 4: Iron age to early medieval activity centred on the symbol stone distribution. (Collated from records in the RCAHMS Canmore database. Base map: Crown Copyright/database right 2013. An Ordnance Survey/EDINA supplied service).

By far the most elaborate early medieval settlement known from the region is the complex around the Craw Stane, which is being investigated as part of REAP’s Phase Two (Noble et al. 2013). Cropmarks (Fig 1) indicated at least two concentric ditched enclosures, with the inner ditch encircling an area 32m x 20m, the outer circa 50m in
diameter and an outer palisaded enclosure around 60m across (Shepherd 1979; Greig 1995; Halliday 2007: 100). The Craw Stane appears to stand at the entrance, on the east side, to the inner ditched enclosure. Outside the enclosure a number of dark indistinct cropmarks to the north suggested activity, but were difficult to interpret.

Prior to excavation, the enclosure complex was considered unusual and traces of internal features such as pits or postholes suggested a complicated and multi-phase settlement (Halliday 2007: 122). Excavation in 2011 confirmed an early medieval date for the double-ditched enclosure and outer palisade with an interior containing at least one timber hall structure; these have been discussed elsewhere in more detail (Noble and Gondek 2011; Noble et al. 2013:1145). The site has produced remarkable finds, such as the most northerly examples of Late Roman imported amphorae sherds (LRA1 and 2), as well as imported glass and substantial metalworking debris alongside pins and beads; these indicate a very high status, possibly royal, centre at Rhynie. A possible interpretation of the place-name ‘Rhynie’ is ‘a very royal place’, which further supports the identification of Rhynie as a key early medieval landscape of the northern Picts (Noble et al. 2013).

Until the REAP excavations, the group of Class I symbol stones were the only definitive evidence of Pictish activity in the area. The motifs on this group of stones include abstract symbols such as the crescent and v-rod and pictorial symbols such as the mirror and comb and the salmon on the Craw Stane. They also bear a preponderance of watery
symbols, including three Pictish beasts and one animal head that appears to have flippers (Rhynie No.5). Two of the stones are unusually carved with lone armed men. The Rhynie Man, found near the Craw Stane, is particularly spectacular; it depicts an axe-hammer carrying, balding, bearded man wearing a tunic. The other figural stone (No. 2) is quite different; even though the stone is worn, the warrior here appears to carry a spear/shaft and shield. The stones’ distribution follows a rough linear north-south spread, beginning around the location of the Craw Stane and ending near the centre of the modern village. Rhynie No.2 and 3 were removed during the construction of the turnpike road in the 1830s and during their removal human remains were found (Allen and Anderson 1903 reprinted 1993: 182). The potential contemporaneity of these burials with the stones has recently been bolstered by the 2013 REAP excavations nearby, which uncovered two square barrows.

The parish, now Rhynie, was previously known as Kilrynie (Scott 1926: 329-30); the ‘kil’ name possibly indicating an early church, but evidence for early Christian activity is scarce. To date, no early medieval Christian carved stones have been found at Rhynie. The old parish church, St Luag’s, downslope from the Craw Stane complex has a dedication suggestive of an early date and a probable 12th – 13th century monolithic sarcophagus indicates an earlier establishment here (Macdonald and Laing 1970, 142; Dixon and Fraser 2007: 170). Luag (Lugaidh) is probably a version of the name Moluag. St Moluag founded the monastery at Lismore in Argyll and his death is recorded in the Annals of Ulster in AD 592; there are a scattering of places dedicated to him in the region (AU 592.1, Mac Airt and Mac Niocaill 1983: 97; Dransart 2003). His name is also
associated with a large natural boulder on the slopes of Tap O’Noth (Clochmaloo) (Macdonald and Laing 1970: 142; Simpson 1932: 86).

GEOPHYSICAL SURVEY OF THE CROPMARK COMPLEX

The initial stages of REAP involved a programme of geophysical survey, which was designed to help us understand the unusual enclosure complex visible in APs, discussed above, and the immediate landscape around the Craw Stane to potentially provide a context for the erection and use of the stones here. A gradiometer survey, using a Bartington magnetic gradiometer 601-2, and directed by Sam Roberts (then of Archaeology Services Durham University) covered an area almost 0.03km² with readings taken at 0.5m x 0.25m intervals. The survey showed the three enclosures around the Craw Stane, confirming the ditched nature of the inner enclosures. The entire complex encloses an area of around 60 x 50m (Fig. 5). The ditched enclosures have entrances to the east by the Craw Stane, which was confirmed by the 2012 excavations although the outer enclosure ditch has different entrances in different phases. There were also indications in the survey (and further supported by the subsequent resistivity survey) of features inside the enclosure thought to represent buildings, pits and postholes.

Excavations within the heart of the complex in 2011 and 2012 showed that there were indeed a series of structures, including an Iron Age ring-ditch and early medieval timber buildings, within the enclosure (Noble and Gondek 2011). A resistivity survey, using a Geoscan twin-probe resistivity meter (1m x 1m intervals), carried out in November 2006, helped to clarify elements in an area ‘blown out’ by high readings that ran across the site.
in the gradiometer survey, likely from a geological source as no pipelines have been noted during excavation.

The surveys also identified a number of potential sites to the north outwith the Craw Stane enclosure complex. Most apparent were two large sub-circular anomalies detected by magnetometry some 60m to the north and 90m to the northeast of the Craw Stane, in areas where the cropmark evidence was diffuse. These anomalies produced very high magnetic readings. Targeted excavation in 2005 identified one of these anomalies as a Mid Bronze Age ring-ditch roundhouse (see below).

Overall, the plotting of NMRS records, the cropmark record and the geophysical surveys in the Rhynie environs indicate a very rich landscape of settlement and monuments in the study area with potential for good preservation. The cropmarks and upstanding remains recorded in the NMRS and SMR are only the tip of the iceberg with further settlement
remains now identified through geophysical survey and confirmed by evaluative excavation. Key to understanding the development of the possible ‘royal’ site at Rhynie will be understanding the development of the prehistoric landscape and using invasive and non-invasive survey techniques to ‘flesh-out’ the long-term history of this landscape.

THE EXCAVATION OF A MID-BRONZE AGE RING-DITCH AT RHYNIE

Figure 6: Figure unavailable.

As part of REAP Phase One and to ground-truth the character of the geophysical anomalies, one strong anomaly was targeted for evaluative excavation. A 5 x 11m trench was situated over a large circular c. 8m diameter strongly magnetic anomaly to the north of the Craw Stane (outwith the scheduled area). Topsoil was stripped under supervision by machine and the remaining overburden (hill wash) was removed by hand. The depth of hill wash differed across the trench, which was situated on sloping ground. A number of features were encountered upon cleaning back the topsoil including a wide arc of burnt material representing a ring-ditch building C014, an inner arc of burnt material C035, two possible postholes within the interior C032 and C037, a shallow ditch C010 and two spreads of clay material C011 and C013 outside the building. None of the dug features intercut and thus no vertical stratigraphy survived; pottery and radiocarbon dates suggest all the features are roughly contemporary. The edges of all features were considerably disturbed by animal burrowing, often blurring distinctive deposits. A short excavation
season and unsettled weather also meant that not all features could be fully excavated, and lower deposits of re-deposited sterile sand in the ring-ditch could not be fully explored in such conditions.

Figure 7: Trench Plan

LINEAR DITCH AND SPREADS

A linear ditch C009 was found in the western area of the trench to the west of the ring-ditch building. The ditch was a north-south aligned shallow cut C009; at its maximum it was c. 0.5m wide and c. 0.2m deep with a shallow bowl-shaped profile. It was filled with a loose mid-brown silty sand with some fist sized cobble inclusions C010 and charcoal. The fill C010 contained several sherds of prehistoric pottery (SF 5, 10, 11, 14, 37 and 38) representing six different vessels. The function of the ditch is not clear. It may have served as a soakaway or drain for the ring-ditch building or defining a plot or enclosure near the building. Soil samples from the ditch suggested dumps of hearth waste (see
Ramsay below). Three sherds of pottery (SF 12 and SF 13) representing two different vessels were found in a shallow deposit C013 cut by the linear ditch C009.

THE RING-DITCH AND INTERIOR FEATURES

A mixed and disturbed shallow soil layer C002 overlay a black and reddish sand deposit, C014, full of charcoal that represented the upper fill of the circular foundation cut for the ring-ditch building. The cut formed an arc approximately 3.0-3.5m wide covering a large portion of the cleaned area of the trench (Figure 7). From the geophysical survey, the ring-ditch has a diameter of approximately 8.0m externally and is open towards the southeast. The interior revealed few, very truncated, features including a pit or posthole C032, approximately 0.3m in diameter and only 0.12m deep filled with a charcoal rich sandy fill C033 and another possible posthole C037 about 1.0m to the southwest, which was not excavated. A curving arc of burnt material approximately 0.5m wide C034 was revealed in the southeast corner of the trench; its charcoal rich reddish brown sandy fill C035 was very similar to the upper fill of the ring-ditch C014.

Four sondages were dug across the ring-ditch. The main evaluation of the ring-ditch C036 was in Sondages 1 and 4, located across the area of the most concentrated burning C014, which included large charred timbers C015. The fill of the ring-ditch included an upper mixed layer with a more densely packed charcoal-rich fill below. The ring-ditch in this area reached a maximum depth of 0.4m and a width of 3.3m. The lowest fill C038 was a yellow redeposited sand largely devoid of burnt material. The lower fill C039 consisted of mottled silty sand varying between a discoloured yellow with small amounts of charcoal to mid brown patches with larger pieces of charcoal to charcoal rich areas of almost pure blue/black silty sand. C039 contained several lenses of sand and mixed
deposits, suggesting the redeposited destruction deposits of a burnt timber (and presumably turf) building. The upper ring-ditch fills included large charred timbers, possibly part of the walls or roof supports of the building. One of these charred timbers C015 was a solid oak timber that had been completely carbonised (see below). Pottery fragments were also found in this upper fill (given C014 in the field where burrowing blurred distinctions between similar deposits, but recognised as within C039).

Figure 8: Section of ring-ditch fill showing charcoal-rich fills and prehistoric pottery.

The profile of the ring-ditch suggested it had been constructed with revetted edges with the central hollow becoming filled with burnt material upon the destruction of the building. Sondage 3, for example had concentric interior/exterior slots within the ring-ditch – perhaps foundation for a timber revetment (Figure 9). The fill of the ring-ditch
became darker and included more charcoal and organic material towards the exterior edge, indicating that the focus of the burning was around the external wall of the building. Sondage 2 was not fully excavated, but included spreads of flat slabs, which may originally have been part of cobbling or paving within the ring-ditch house. The profile of each sondage was heavily affected by animal burrowing.

Figure 9: Sections through the ring ditch.

**Radioncarbon Dating**

Five dates were obtained directly from the burnt deposits within the ring-ditch foundation and a sixth from the linear ditch C009 (Table 2). The six radiocarbon dates, all from short-lived material (Figure 10), give a consistent date for the building all within 90 radiocarbon years of one another, providing a calibrated range of 1620-1360 BC.
Table 2: Radiocarbon dates from the ring-ditch

<table>
<thead>
<tr>
<th>Sample Type</th>
<th>Sample Code</th>
<th>Calibration Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charcoal</td>
<td>GU-14283</td>
<td>3250±35BP</td>
</tr>
<tr>
<td></td>
<td>GU-14284</td>
<td>3245±35BP</td>
</tr>
<tr>
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</tr>
<tr>
<td></td>
<td>GU-14286</td>
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</table>

Figure 10: Calibration of radiocarbon dates
ARCHAEOBOTANICAL ANALYSIS

By Susan Ramsay

A total of 13 samples, representing seven contexts, were processed for the recovery of archaeobotanical remains from Rhynie. Bulk samples were processed by flotation with flot collected on a 250µm sieve and residue on a standard 500µm sieve, discrete areas of charcoal or charred timbers were also wet sieved using mesh diameters of 1mm and 500µm. Dried flots and sorted retents were examined for identifiable botanical remains using a binocular microscope at variable magnifications of x4-x45. All seeds and 25 charcoal fragments where possible were identified from each sample to give a good indication of the range of taxa present. The testa characteristics of small seeds and the internal anatomical features of charcoal fragments were observed for identification purposes at x200 magnification using the reflected light of a metallurgical microscope. Reference was made to Beijerinck (1947), Schweingruber (1990), Jacomet (1987) and the extensive botanical reference collection held at the University of Glasgow. Vascular plant nomenclature follows Stace (1997) except for cereals, which conform to the genetic classification of Zohary & Hopf (2000).

Context 012 (Sample 004)

Sample 004 came from Sondage 1 through the foundation slot of the burnt timber building. The charcoal assemblage contained a variety of tree taxa, namely alder, birch, hazel, oak and willow. The charcoal types are consistent with lowland mixed deciduous woodland; although, the presence of a significant proportion of oak may indicate that some structural material was present. One piece of willow charcoal was in the form of
roundwood (approx. 35mm diameter) and could possibly represent a structural element. In addition to the charcoal, numerous carbonised cereal grains were recovered from this context. These grains were generally identifiable as naked six-row barley and those grains only identified as six-row barley or indeterminate cereals may equally well just be poorly preserved examples of the naked form of six-row barley. A small quantity of barley chaff (rachis internode) was also recovered from this sample along with three carbonised weed seeds (common hemp-nettle and club rush). However, this is not enough material to suggest that cereal processing waste was present in this sample. Three grains of emmer wheat were also identified, although it is impossible to say whether they represent grain from a separate crop to the barley or whether the wheat may have been grown as a mixed crop or simply occurred as weeds within the barley crop.

_Context 014 (Samples 006 & 007)_

Context (014) represented the upper fill of the ring-ditch in Sondage 1. Context (014) contained a range of charcoal types, including alder, birch, hazel, oak and willow. This assemblage is similar to that seen from sample 004 and may suggest that they contain carbonised material from the same origin. The charcoal recovered from sample 006 was generally in the form of large pieces, suggesting they may have had a structural origin rather than simply representing the remains of hearth fuel. Further evidence for structural material is provided by the fact that all the alder charcoal was in the form of roundwood (up to 60mm diameter) and may suggest the presence of upright alder poles forming part of the structure. Context (014) also yielded small quantities of cereal grains, similar to those recovered from context (012), i.e. naked six-row barley accompanied by small
quantities of barley chaff. Two fragments of hazel nutshell were the only other evidence for food plant remains from this context.

Context 015 (Samples 005 & 010)

Context (015) represented a concentrated charcoal spread towards the exterior edge of the ring-ditch in Sondage 1. Sample 005 was similar in composition to those samples analysed from contexts (012) and (014). It contained a mixed charcoal assemblage of alder, birch hazel and oak along with a few cereal grains, including naked six-row barley. Carbonised weed seeds included individual examples of fathen and corn spurrey; both weeds of arable crops. Of particular note was the large size of many of the charcoal fragments. Some of the oak fragments showed up to 40 visible growth rings and probably came from large, mature trees. In addition, the birch charcoal also showed characteristics of having come from a large tree. The hazel charcoal was all roundwood (up to 25mm diameter and c. 12 years old) and may represent hazel rods used for structural purposes. In contrast, the charcoal from sample 010 was all oak and contained pieces up to 60mm in width, representing more than 50 years of growth. It was clear that these pieces of oak charcoal had come from very large timbers. Taken together, it would seem likely that the charcoal assemblage from context (015) included the burnt remains of the superstructure of the building.

Context 039 (Samples 011, 014 & 015)

Context (039) represented a lower fill of ring-ditch in Sondage 1. Sample 011 was a general bulk sample, whilst sample 014 (SF036) and sample 015 (SF029) were thought to
be individual stakes or timbers burnt in situ. The bulk sample 011 produced a similar charcoal assemblage to that seen elsewhere in the foundation slot. The charcoal taxa present included alder, birch, hazel, and oak, with the addition of cherry type. Most notable were the significant numbers of cereal grains present in the sample. A total of 825 cereal grains were recovered, with more than half identifiable as naked six-row barley and the rest either six-row barley or indeterminate cereal grains. Six-row barley chaff was also present, as were a few carbonised weed seeds; although, these were not in significant enough numbers to suggest that cereal processing was occurring on site. The only other evidence for food plant remains in this sample was a single fragment of hazel nutshell. Sample 014 (SF 036) was entirely composed of alder charcoal and probably represents the remains of a stake or timber burnt in situ. The largest fragments had a diameter of 65mm and had over 30 growth rings visible. Sample 015 (SF 029) was entirely composed of cherry type and is probably also the remains of a stake or timber burnt in situ. The largest fragments had a diameter of 60mm and had at least 30 growth rings visible.

TIMBER USE, WOODLAND RESOURCES, CEREALS AND OTHER FOOD PLANT USE IN THE MID BRONZE AGE ROUNHOUSE

The archaeobotanical results from Rhynie support the hypothesis that this was a timber built structure destroyed by fire. The carbonised botanical assemblage suggests that the structure was built from a variety of wood types, all of which would have been available for collection from the locally growing native woodland. There is evidence for three posts
/ timbers that were charred through burning – albeit that each was of a different wood
type: namely oak, alder and cherry. Significant quantities of charcoal derived from large
diameter roundwood were identified from many of the contexts and this is a further
indication that at least a percentage of the charcoal came from the burning of a structure.
However, it is impossible to rule out the possibility that hearth waste forms a proportion
of the charcoal identified from the site. In addition to hearth waste and burnt timbers,
significant quantities of cereal grain were also recovered. The grain assemblage was
dominated by naked barley. The cereal grain was well preserved and had undergone a
degree of processing prior to burning.

Woodland resources

The charcoal assemblages from the burnt timber structure at Rhynie showed a great deal
of variety in the charcoal types recovered. All the charcoal types identified are consistent
with collection of material from locally available lowland mixed deciduous woodland
present in this part of Aberdeenshire during prehistory. Oak, alder and cherry timbers
appear have been used in the super-structure of the building. In other lowland parts of
central Scotland, pollen analysis has shown that by the Bronze Age, people had already
made a significant impact on the composition and spread of the native woodlands
(Ramsay 1995). It may be that a significant effort had to be made to collect woods such
as oak for use in building. Alder is not generally considered to be a good structural
timber as it is soft and tends to rot quickly unless kept permanently wet. However, when
alder grows in a close canopy woodland it produces very long, straight, unbranched
trunks. These would have been ideal for using as posts; although, the susceptibility of
alder to decay may have necessitated its frequent renewal or it may have been more vulnerable to fire than a purely oak-built structure. The third in situ post / timber was of cherry type. This type covers three species of cherry that grow in Scotland: namely bird cherry, wild cherry and blackthorn. None of these species is recognised as a particularly good type for construction timbers. They are generally used for wood carving or turning (Gale & Cutler 2000). No evidence of carving was visible on the carbonised timber from Rhynie. Hazel and willow charcoal may be the remains of wattlework panelling associated with the structure, either forming the external walls or internal partitions. Birch could also have been used as a structural timber. There is, however, also the potential that much of the charcoal recovered from the ring-ditch came from hearth waste rather than from the burning down of the structure itself. The range of types of charcoal identified could certainly be explained as resulting from collection of fuel from local woodlands.

Cereal grains were found in the majority of the contexts. Two contexts in particular, (012) and (039), contained significant numbers of cereal grains. These cereals were generally well preserved suggesting they had not been subject to any significant reworking, such as may have occurred through animal activity. Of the cereals that could be identified to type, the vast majority were naked six-row barley, with a further significant proportion only identifiable as six-row barley. It is suspected that a large proportion of the indeterminate six-row barley grains were probably also naked barley, since the naked variety is harder to identify categorically than the hulled type when the grain is less well preserved. A trace amount of emmer wheat was also recorded;
however, it was a tiny percentage of the total grain assemblage and so is considered to probably be a contaminant of the barley crop rather than a crop in its own right. This bias towards naked barley is often associated with sites of Neolithic and Bronze Age date (Dickson & Dickson 2000). The grain may have been stored in the building or there may even have been a ritual association between the deposition of this grain and the burning of the building. In an earlier context, an association of naked barley with building foundation slots was noted at the Neolithic mortuary structure excavated at Eweford, East Lothian, for example (Miller & Ramsay 2004).

Barley chaff, in the form of rachis fragments, was also identified in some of the cereal-rich contexts as was a small quantity of carbonised crop weed seeds. However, the chaff and weeds seeds are not thought to be in sufficient concentrations to suggest that crop processing waste was present within the foundation slots. Therefore, there is no evidence that crop processing was occurring on the site. The cereal assemblage is more indicative of a cleaned grain crop that was ready for storage or grinding. The apparent deliberate incorporation of this clean grain into foundation slots of a structure may have some ritual meaning rather than just accidental loss of grain during day-to-day activities. Apart from cereals, the only other food plant remains identified from the Rhynie samples were a few fragments of hazel nutshell. These are generally extremely common finds on prehistoric sites and add little to the interpretation of this site.

THE PREHISTORIC POTTERY FROM BARFLAT, RHYNIE

By Alison Sheridan
The prehistoric pottery assemblage from Barflat comprises 92 sherds and ten fragments (i.e. pieces smaller than 10mm in their greatest dimension) from 11 undecorated pots, the whole amounting to 2.79kg. The assemblage is dominated by the remains of two large vessels (Pots 1 and 2), which were found beside each other amongst burnt material in the ring-ditch fill (C014 and C015 now re-evaluated as C039), Fig. 11; together these pots comprise 94% by weight, and 75% by sherd number, of the whole assemblage. One sherd from a thinner-walled and finer pot (Pot 3) was found at a higher level (context (002)) in the same area; the rest of the assemblage (Pots 4 to 10) was found in and around the linear ditch to the west; as with Pot 3, only a small part of each vessel is represented.

Figure 11: Prehistoric pottery in the ring ditch.

_Pottery from the ring-ditch_
Pot 1 (Fig. 12; context (039), SF 17, 20, 22, 31,34, 35, 39, 40 and 45) consists of 44 sherds and five fragments, weighing nearly 1.96kg and constituting 40–50% of a large, flat-based jar. Many of the sherds are large (with the largest, a section of rim and upper body, measuring c. 125mm across, and several conjoining sherds have been refitted to form much of the profile on one side of the pot. Some of the conjoining fracture surfaces are abraded, others fairly fresh. The rim – with an estimated diameter of 290mm – is rounded and slightly inturned; below this the body swells to its maximum diameter of c 310mm a few centimetres below the rim, before sloping in to a narrow base 140mm in diameter. The exterior of the base is dished and its interior swells markedly towards the centre. The overall height had been 400mm, and the thickness varies from 9.6 mm at the lower body to 26.1mm at the centre of the base; the wall is relatively thin given the large size of the vessel. The surfaces are uneven, despite having been coated with a thick slip. Surface colour is highly variable, with the exterior ranging from red-brown and buff to medium brown and dark grey-brown, with the lower wall and outside of the base a bright red. Core colour also varies, from pinkish, buff and yellow to grey-brown; and interior colour ranges from light brown to dark grey-brown. There is a patch of black carbonaceous material on the exterior, and part of the interior has a thin coating of similar material, but this is suspected to be unrelated to the pot’s original function (see below). Some of the fracture surfaces run along ring joint lines, and it is clear that the base had been made as a single piece, with the wall above it being added to the outside of this piece. Several impressions of organic material are present on the outside of the base, including one possible grain impression. Angular and sub-angular fragments of a
crushed, black and white speckled crystalline stone had been used as a filler; these occur at a density of c 10% and are up to 19 x 11.5mm in size. In addition, the clay used to make and coat the pot contains tiny mica platelets, present naturally. Parts of the pot show obvious signs of burning, with the base, for example, having been oxidised to a bright red on its exterior and a bright yellow and buff in its core; the fabric has been softened due to the intensity of the burning. That this was not caused by the pot’s use for cooking is indicated by the fact that two conjoining rim panels differ significantly in colour, with one being oxidised to a buff and reddish colour, while the other had escaped this burning. The irregular distribution of the aforementioned black carbonaceous material is also likely to result from burning. This pot, like Pot 2, had probably been used as a storage jar. It is impossible to tell how much of it had been destroyed through plough truncation, but to judge from the disposition of the sherds (and in particular the fact that the largest sherd was found inside up, and with the rim facing towards the base), it seems most likely that it was already broken and incomplete when deposited, presumably close to the wall of the house (on the inside or the outside). The incomplete lower part had evidently been deposited upright, and been smashed in situ.
Pot 1

Pot 2 (Fig. 13; C039, SF 32) consists of 25 sherds (including several that conjoin and have been refitted), weighing 670g and constituting around 25% of a second large jar, found adjacent to the remains of Pot 1. Pot 2 is more incomplete than Pot 1, lacking the lower body and the base, and given the disposition of the sherds – found with the exterior of the pot facing up, and with the rim pointing away from Pot 1 – it is likely that the pot had been incomplete when originally deposited, and partly smashed in situ. Nevertheless,
a large section of the upper part of the vessel has been reconstructed, and most of the
sherds are relatively large, measuring over 50mm in their greatest diameter. The pattern
of fractures is, unusually, diagonal and does not appear to follow ring joint lines
(although one vertical fracture may have been along a strap-end joint). The rim is flattish-
rounded and minimally inturned; in places its inner edge projects slightly, from where it
had been smoothed inwards. The estimated rim diameter is 320mm, so the pot would
have been slightly wider at its top than Pot 1. The body swells out below, to a maximum
estimated diameter of c 340mm, and will have narrowed towards the base, but a complete
profile cannot be reconstructed. Wall thickness ranges from 10.7mm to c 14mm. The
surfaces are uneven, with large angular lithic inclusions protruding. The surface texture is
highly variable, with some areas heavily abraded; both surfaces had originally been
covered in a thin slip. The exterior varies in colour from black-grey to buff-orange and,
where the surface is abraded, bright orange. The core is yellow-buff; the interior varies
from black to dark grey with yellow and buff patches. Parts of the pot had been heavily
burnt, oxidising the clay to a yellow-buff colour and making it soft and prone to spalling.
A partial thin coating of blackish carbonaceous material, which extends over the fracture
surfaces, relates to the conflagration in which the pot had been caught. The lithic
inclusions consist of the same black and white speckly, crystalline stone as seen in Pot 1,
together with at least one angular fragment of crushed quartz and fragments of a shiny
black mineral; the fragments are angular and subangular, and up to 16.7 x 5mm in size.
These would have been added deliberately. In addition, the clay naturally contains minute
flecks of mica. Like Pot 1, this pot is likely to have served originally as a storage jar.
Figure 13: Pot 2

**Pot 3** (not illustrated; context (002), SF 15) is represented by a single, relatively small body sherd (c L: 28mm; W: 30mm; c 9g) representing less than 5% of the original extent of the pot. It had been thinner-walled than Pots 1 and 2, with a wall thickness of 7.4–8.5mm, and finer in fabric. Lithic inclusions comprise small angular and sub-angular fragments of rotten, soft speckled black and white crystalline stone, together with a black shiny mineral, and naturally-occurring mica flecks. The overall inclusion density is less than 3%. The exterior is pitted from abrasion, but the interior had been carefully smoothed (probably by wet-smoothing). The vessel had probably been a small jar; the estimated body diameter based on the sherd is c 90mm. There are no obvious signs of burning.
Pottery from in and around the linear ditch

The remaining vessels are represented either by just a single sherd, or a handful of sherds; in no case is more than 5% of any vessel represented. Sherd size is small, with the largest (from Pot 8) measuring L: 45mm; W: 52mm; Th: 11mm. Pot 7 stands out from the rest in being comparably coarse to Pots 1 and 2 and, like them, it shows signs of having been burnt. Most or all of the other pots could have been fairly small jars, some used for cooking; most are abraded, but several have a fairly hard, slightly sandy fabric. The black and white speckly crystalline stone as noted in Pots 1 and 2 (and, in a rotten variant, in Pot 3) is present in all the pots except 5 and 11. Mica flecks are present in most of the pots, being especially numerous in Pot 11. Summary descriptions are presented below.

**Pot 4** (Fig. 14a; context (010), SF 11) is represented by what appears to be a rimsherd, lacking its top. It is likely to have had a flattish-rounded top and to have been minimally turned in. Thickness: 11.7mm. The sherd is too small to estimate rim diameter, but the vessel may have been used for cooking, as there is a small patch of thin black encrustation on its interior. Some edge and surface abrasion.

**Pot 5** (Fig. 14b; context (010), SF 5) consists of nine sherds (including a conjoining pair) and three fragments; several charcoal fragments, and two pieces of natural stone, were also found with these sherds. One small sherd seems to be from a flat, gently squared-off rim (Fig. 13), while a body sherd suggests a diameter at that point on the pot of c 120mm,
indicating that this had been a fairly small pot. The presence of a very thin black encrustation on the interior suggests that it may have been used for cooking. Thickness: 10.5mm. Slightly abraded.

Figure 14: a) Pot 4 b) Pot 5

**Pot 6** (not illustrated; context (010), SF 10). Heavily abraded body sherd from a fairly thin-walled (8.9mm), fairly fine-textured pot of indeterminate shape and size.

**Pot 7** (not illustrated; context (010), SF 37). Four body sherds from a small cooking jar with splaying walls, fairly thin-walled (9mm) and fairly fine and hard. The diameter at the point where the walls splay is c 100mm.

**Pot 8** (not illustrated; context (010), SF 38). Two heavily abraded body sherds from a coarse pot, thickness c 11mm. The body diameter extrapolated from these sherds is c 120mm, but it is unclear whether they were from a small pot, or from a narrow part of a
larger pot. The oxidised exterior and softness of the fabric suggests that these sherds had been burnt.

**Pot 9** (not illustrated; context (010), SF 14). Two conjoining (and refitted) body sherds, slightly abraded, probably from a small jar. Thickness *c* 10mm; fairly fine and hard fabric, slightly sandy.

**Pot 10** (not illustrated; context (013), SF 12). Two conjoining (and refitted) body sherds, abraded, from a fairly thin-walled (9.3mm) pot with relatively large lithic inclusions.

**Pot 11** (not illustrated; context (013), SF 13). Abraded body sherd from a thin-walled (8.5mm), fairly fine pot, probably a small jar. The clay is markedly micaceous.

*The Pottery in Context*

The radiocarbon dates from the ring-ditch house and the linear ditch suggest that the pottery from these two areas had probably been in contemporary use around the 15th century BC, and that the large coarse pots and the smaller, finer pots were part of the same ceramic repertoire. Stylistically it falls within a long-lived and very widespread tradition of undecorated pottery known by the unhelpful term of ‘flat-rimmed ware’ (and, in a funerary context, ‘bucket urns’; see Halliday 1988 for a discussion of the use of the term ‘flat-rimmed ware’). This tradition is well represented in north-east Scotland and Tayside and Fife, being found for example in domestic contexts at Oldmeldrum,
Aberdeenshire (White & Richardson 2010); at Deer’s Den, Kintore, Aberdeenshire (MacSween 2008); on the Culbin Sands, Moray (Coles & Taylor 1970); at Powmyre Quarry, Glamis, Angus (Sheridan forthcoming a); and at Ormiston, Fife (Halliday 1988). Further north, a sizeable assemblage was found associated with round houses at Lairg, Highland (McCullagh & Tipping 1998). It has also been found in funerary contexts in north-east Scotland and Tayside, including a grave inside a stone circle at Sandy Road, Scone, Perth & Kinross (Sheridan 2007) and as secondary deposits in a number of Early Bronze Age monuments (as discussed in Bradley & Sheridan 2005). Many of these assemblages date a little later than the Rhynie assemblage, belonging within the 1200–800 BC bracket. However, assemblages that date nearer to the middle of the second millennium BC are growing in number, including that from Deer’s Den Round Houses 25 and 26; from Houses 2 and 3 from Oldmeldrum (which date to the third quarter of the second millennium); and from a recently-excavated Middle Bronze Age round house settlement at Meadowend Farm (Upper Forth Crossing), Clackmannanshire (Sheridan forthcoming b). The Meadowend Farm assemblage included a mixture of very large jars and smaller pots, with several vessels resembling Rhynie Pots 1 and 2. Similarly, there is a particularly close parallel for the rim form found on Pots 1 and 2 from House 3, Oldmeldrum (Johnson 2010: illus 14, pots P101 and P104).

MAIN DISCUSSION

THE RHYNIE RING-DITCH HOUSE
The structure excavated in 2005 indicates that the visible archaeological remains in the Rhynie landscape and recorded in aerial photographs are likely to be only a proportion of the surviving archaeology in the study area. The structure itself is interpreted as a post-built ring-ditch house, a type which forms a major subgroup of later prehistoric, generally unenclosed, settlement architecture (Cook and Dunbar 2008: 373). The primary shared characteristic of these structures is the ring-ditch element itself, usually a penannular sunken feature that would have been contained within the building towards the periphery of the structure (ibid: 12-13). Although a consistent feature of later prehistoric buildings, the ring-ditch element of individual houses can be highly variable. A number of ring-ditch houses have been excavated in Aberdeenshire, but this is the first excavated in the immediate Rhynie area. At Glengarioch, Oldmeldrum, three ring-ditch houses had entrances to the south and finds included prehistoric pottery similar to the Rhynie assemblage (White and Richardson 2010). Excavations at Deer’s Den also uncovered an example of a ring-ditch house c. 10m in diameter with an entrance to the south, with similar Middle Bronze Age radiocarbon dates (1800-1400 BC) and prehistoric pottery to the one at Rhynie; although Deer’s Den included some metalworking debris and a greater range of cereal crops (Alexander 2000: 21-22). The three Middle Bronze Age houses excavated at Kintore, also showed evidence of outer post rings subsumed into the ring-ditch itself, sometimes irregular ring-ditch profiles and evidence of in-situ burning, cobbling/stone concentrations of the ring-ditch area and deposition of artefacts (Cook and Dunbar 2008: 94-95). In both morphology and material culture, the Rhynie ring-ditch house can identified as part of this growing tradition of Bronze Age ring-ditches
associated with large coarse pottery accompanied by smaller finer pottery assemblages in northeast Scotland.

In terms of the appearance of the Rhynie building, the ring-ditch houses at Douglasmuir in Angus have formed the basis of many interpretations on the form and function of these structures (Kendrick 1995). Kendrick interpreted the ditch at the Iron Age Douglasmuir examples as an intrinsic constructional element allowing headroom at the perimeter of the house (Kendrick 1995: 61, Illus 27). At other examples, including Kintore, the ring-ditch appears to be the product of erosion due to concentrated activities rather than a designed feature (Cook and Dunbar 2008: 13, 94-95). At Rhynie, the origin of the ring-ditch element is uncertain – the suggestions of timber revetment at the sides of the ring-ditch may suggest it was an integral and architectural element of the building. Indeed the presence of two storage pots that appear to have been caught in the conflagration that engulfed the building also suggest that the ring-ditch was a deliberate architectural feature of the house. However, in certain areas of the ring-ditch such as in Sondage 4 there were suggestions of paving at a higher level than the base of the ring-ditch.

The burning of the house at Rhynie has given unusual detail on the construction materials used in the building. The distinctive feature of the botanical analysis is the variety of timbers present and apparently used as structural elements. These all survived in substantial fragments including roundwood pieces suggesting that elements of the house were burnt in situ. The charred remains of hazel and willow may suggest the presence of wattlework panelling, whereas the oak, birch and alder may have been used for larger
structural elements (e.g. as at Kintore (Cook and Dunbar 2008: 94)). The hints of structural elements at Rhynie seen in the horizontally orientated burnt cherry-wood timber as well as alder and other stakes may suggest parallels to the impressive 16m diameter structure at Birnie, Morayshire (Trench AL) where fire preserved evidence of pairs of radially aligned timbers with smaller transverse timbers between them within the ring-ditch, interpreted as structural or collapsed roofing material (Hunter 2010: 10).

Ramsay suggests that alder and cherry could have been used because of a shortage of oak trees, but there may be other reasons for choosing these materials. Whilst the longevity and durability of timber buildings would have been a factor in construction choices, with elements such as alder needing to be replaced regularly, these timbers could have also been chosen according to their colour, texture or ritual significance. The Rhynie building would have been striking given the different properties, colours and general appearance of the differing timbers identified in the charcoal analysis.

The Rhynie building clearly had quite a dramatic ending. Whether the fire was started accidentally, or perhaps as part of a ritualised end to the building, is uncertain. Sheridan suggests that the pots found in the ring-ditch may have already been partly broken when deposited and Ramsay points to the potential symbolic dimensions of burning cereals during the destruction of the building. It could be that the building’s life was ended as part of a deliberate ceremonial act that marked the end of the household in that location. Whatever, the case, the Rhynie structure adds important new detail to growing corpus of
excavated ring-ditch structures and the nature of Bronze Age settlement in Aberdeenshire and eastern Scotland.

LANDSCAPE BEFORE SYMBOLS

REAP Phase 1 has increased our understanding of not only the landscape of Rhynie’s symbol stones, but also its pre-symbol landscape. The depth of activity of mixed settlement and ritual nature in the immediate environs of the Craw Stane is now becoming clearer. In the Bronze Age, the area is the focus of apparently unenclosed settlement with at least one and possibly up to four structures based on the geophysical survey. However, the landscape also appears to be shared with the dead given the likely Bronze Age date of the Bell Knowe cairn. The redeposited Bronze Age material in the Pictish Craw Stane complex, also suggests Bronze Age funerary activities in this landscape. Within its wider landscape context the Rhynie ring-ditch house helps to populate Strath Bogie itself, which apart from some indeterminate enclosures around Rhynie village, previously had no clear evidence for later prehistoric lowland settlement.

The geophysical surveys around the Craw Stane have successfully shown the potential of extensive non-invasive work around symbol stone sites. The lack of clear Pictish type burial structures in the Craw Stane field is significant and has contributed to the ongoing reappraisal of Class I stones and their potential to be monuments with multiple functions and settings. Non-invasive surveys are most powerful, however, when combined with targeted evaluations and sampling to provide datable materials. The small scale
excavation of the Bronze Age ring-ditch building, whose features are relatively well preserved by layers of hillwash, has shown the potential for investigation of this and the other possible ring-ditch structures nearby. With a more substantive excavation and environmental research programme, Rhynie may in future be able to contribute to key research questions about prehistoric settlement, including examining how buildings were built, used and destroyed and examination of the relationships between both the natural and the culturally constructed landscape of settlement and ceremony (ScARF 2012: 54, 61). Rhynie appears to have been located in a key area for both settlement and ritual activities; its importance partly based on its location as a natural routeway running north and south through an upland area. At the moment there are only snapshots in time of how the landscape was used and how it developed. Key questions still remain including whether a hiatus in settlement occurs here in the late Bronze – early Iron Age, as seen at Kintore and what the relationship is between the settlement and funerary prehistoric features and indeed the dominating site of Tap O’Noth. What is clear even at this stage of research is that the land before symbol stones at Rhynie played an important role in the creation of the later Iron Age and then early medieval high status site and ritual focus, where memory and re-creation of the past was embedded into monumental practices, such as reused prehistoric monoliths, as well as concepts of place, movement and transition.
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