# Kinneddar: A Major Ecclesiastical Centre of the Picts

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<A> ABSTRACT

The early Christian sculpture from Kinneddar has long been noted as a major assemblage. New survey work has identified a large vallum enclosure around the site that was renewed on at least one occasion. The vallum enclosures surrounded an area of up to 8.6ha, and the groundplan presents striking resemblances to other major ecclesiastical sites, particularly Iona. Evaluative excavations instigated through research- and development-led projects have provided an outline chronology for the vallum enclosures, identified an additional annexe and has located settlement features inside the enclosures. This article sets out the evidence from the site and discusses Kinneddar in relation to other likely major ecclesiastical sites in northern Pictland.

#### <A> INTRODUCTION

Kinneddar, Lossiemouth, Moray (illus 1), is likely to have been one of the major ecclesiastical sites of northern Pictland. It is a site long discussed with regard to its sculptural evidence and has been investigated archaeologically from the 1970s onwards, but its true nature and significance has only recently begun to materialize with new geophysical evidence and now the first radiocarbon and well-contextualised archaeological sequence. This has been established through research- and development-led excavation with radiocarbon dating evidence showing that the site was in use from the 7<sup>th</sup> century through to the 12<sup>th</sup> century when Kinneddar first appears in the historical records. This article outlines the recent archaeological survey and excavation results and attempts to draw out the significance of the site in its wider northern Pictish context.

Kinneddar stood at the edge of the former sea loch of Spynie on a raised ridge of land.

Loch Spynie was a sea loch in the medieval period, but through sandblow became a

freshwater loch by the 17<sup>th</sup> century and was almost totally drained by the 19<sup>th</sup> century (Stratigos forthcoming). The sea loch would have provided a sheltered anchorage for shallow draft vessels and access to the Moray Firth seaways. At the other end of the sea loch, 11 km to the west, lay Burghead, the largest identified early medieval enclosed site in northern Britain (Oram 2007: 241). 35km to the northwest, across the Moray Firth, lay Portmahomack, a monastery established in the 8<sup>th</sup> century and destroyed during the Viking Age (Carver 2016; Carver et al 2016).

Today Kinneddar comprises a graveyard marked by a relatively modern sub-rectangular boundary wall with gravestones from the 17<sup>th</sup> to the 20<sup>th</sup> century AD (illus 2) (Canmore ID 16470). Kinneddar's parish church went out of use around 1666 when a kirk at Drainie was constructed for a new parish uniting the medieval parishes of Kinneddar and Ogston (Shaw and Gordon 1882 vol. III: 400–1). Richard Pococke (1887: 186) noted that when he visited in 1760 there was 'a Church in form of a Cross the foundations of which are seen' at Kinneddar, but by 1792, only 'vestiges' of the church remained (*OSA* iv 1792: 81). However, Dr Richard Rose, when writing about Kinneddar in 1842 (*NSA* xiii 1845: Elginshire 151) mentioned that foundations of a church in the centre of the graveyard could still be identified.

In the medieval period Kinneddar was important as a centre of the bishopric of Moray. In the years immediately following the granting of a papal mandate on 7 April 1206, the bishop's seat was fixed at Spynie (moving later to Elgin in 1224), but before then Kinneddar had been, along with Spynie and Birnie, one of the three episcopal seats of the bishopric (Innes 1837 [*Moray Reg.* nos. 45, 46]: 39–43; Fawcett 1999: 5; Oram 2016: 18). It remained a significant place after the 12<sup>th</sup> century (Dransart 2016: 60–1, 73–4); with charter evidence demonstrating that Kinneddar was a location for the bishopric's charter ceremonies of 1226, 1237, 1263, 1269, 1294, and 1328 (Innes 1837 [*Moray Reg.* nos. 75, 89, 126, 130,

137, 278]: 82, 103, 140, 144, 151, 278). Kinneddar also had a *castrum*, from where the bishop travelled in 1383 (ibid [*Moray Reg.* no. 289]: 369), which presumably was the location of the *capella manerii sui de Kynedor*, the 'chapel of the bishop's manor of Kinneddar', mentioned in 1328 (ibid [*Moray Reg.* no. 137]: 151; Dransart 2016: 73). This residence subsequently fell out of use and into ruin, and was described as the *palatium dirutum*, 'ruined' or 'destroyed palace', in *Moray Registrum* no. 462 (Innes 1837: 426), dating to some point between 1606 and 1623.

In the eighteenth century there are some general descriptions of the episcopal residence, stating that it was in 1760 'a large house' whose foundations could be seen (Pococke 1887: 186), and in the Old Statistical Account it is stated that there were 'the remains of an old palace or castle' close to the church of Kinneddar (OSA iv 1792: 81; See also Grant and Leslie 1798: 84). The form of the bishop's residence is uncertain, but, according to the entry by Rose in the New Statistical Account (NSA xiii 1845: Elginshire 151–2), it included two sets of walls, each with a ditch outside and an earthen rampart inside, and the outer wall had towers at each angle of a hexagonal groundplan, and at the centre was a great tower, storehouses and a barracks. According to Rose (ibid 151) 'what remained of the doors and windows, and the hewn stones found among the rubbish, shows that the work was of the Gothic order, and highly ornamented in its day.' Rose stated (ibid 152) that some of the eastern wall and towers still survived, and that a drawbridge had recently been found there, but that elsewhere the walls and ramparts had been levelled to the ground, with the ramparts used to fill in the ditches, before the land was placed under cultivation. While this was taking place (considerably before 1842), Rose visited the site, describing (ibid 152–3) the finding of stone cists, human bones, peat or turf ashes, oak charcoal, and broken urns under the ramparts, with 'the numerous graves running parallel to the wall, and covered by the high earthen rampart'. According to Rose, the castle was 'adjoining to the churchyard', so close that the large central tower was supposedly used as a belfry for the church after the stronghold fell out of use (ibid 151–2). While Rose's account may have been an embellished interpretation, if even some of the finds and structures he described were present, then it indicates that substantial structures were created at Kinneddar in addition to the parish church, and that these covered earlier human activity on the site including what may have been a cemetery (although of uncertain date).

The early medieval sculptural evidence (illus 3) from the site included part of a now lost Class I Symbol Stone, along with over 30 fragments of composite box-shrines, crossslabs, freestanding cross fragments, and other sculptural elements. The Class I stone was found in 1855 when the Church Manse at Kinneddar was demolished. It was decorated with a large crescent and V-rod with spiral decoration on the crescent (Stuart 1856: 40). The early Christian sculpture at Kinneddar is diverse with fragments of cross-slabs decorated with ringheaded crosses, knotwork and key pattern and some of the stone fragments show human figures including figures on horseback and warriors carrying spears. The style and quality of carving has close parallels with collections from Burghead, Rosemarkie, St. Andrews and Portmahomack, with the majority of the carvings likely to be of 8<sup>th</sup> to 9<sup>th</sup> century date (Dransart 2001: 235, 239; Henderson and Henderson 2004: 130-1; cf. Henderson 1998: 130-1; 155, 165). Most of the stones were found in old stone dykes around the Old Manse or were dug up in the cemetery (Stuart 1856: 40; Allen and Anderson 1903: 142). One sculptural fragment is worthy of particular mention – a fragment of a panel showing David wrenching apart the jaws of a lion (illus 3b). This can be directly compared with the St Andrews Sarcophagus (Henderson 1998), and it is likely that the Kinneddar monument was designed to hold the body or relics of an important saint or perhaps a king (Dransart 2001: 235; Jane Geddes pers comm).

Previous archaeological work at the site has included excavation by boys from Gordonstoun School in 1936, who, led by a schoolmaster, excavated the foundations of the Bishops' Palace (Canmore ID 16459). In 1995 The Moray Society commissioned CFA Archaeology to undertake some trial trenching at the site (Cameron 1995). A number of evaluation trenches were dug to the north, east and south of the modern graveyard (illus 4). These uncovered walls probably associated with the Bishop's Palace to the north, but identified few definitive features to the east or south. A later geophysical survey by the Scottish Episcopal Palace project identified the cruciform layout of the later church within the modern graveyard (Dransart 2016: 73). In 2002 development-led work by Headland Archaeology revealed a large ditch to the east of the Bishop's Palace, which was not dated or fully published (Brown 2002), but at the time it was tentatively identified as a possible enclosure ditch surrounding the Bishop's Palace or the modern graveyard. The description and position of the ditch suggests it is likely to have been a northern stretch of the vallum. The ditch found consisted of a primary cut around 2.8 m wide, which was recut by a larger ditch, 5.6m wide – it is possible that this was an early vallum ditch with a recut by a secondary vallum on the same line (See below). Medieval redware was found in the deliberate backfill of the recut ditch.

# <A> UNIVERSITY OF ABERDEEN AND DEVELOPMENT-LED EVALUATIONS

New work was carried out at the site from 2015-17 as part of research by the University of Aberdeen and development-led archaeology led by AOC Archaeology occurred during the same period. The Aberdeen-led work was undertaken as part of the Northern Picts and Comparative Kingship projects, both of which seek to understand the environs of the major Pictish centre at Burghead. In 2015 and 2016 geophysical survey was undertaken to test the idea that a vallum ditch might surround the modern cemetery as had been established by aerial photography at Portmahomack (Carver et al. 2016: 37). The geophysical survey was

carried out by team members of the Northern Picts project (Noble and Sveinbjarnarson 2016: 125) with the aim of trying to identify signs of an outer enclosure around the modern graveyard. Approximately 5.47 ha was surveyed with a duel Bartington 601-2 gradiometer.

Data was collected in zig-zag mode with 1m traverse and 0.25m sample intervals.

This survey identified traces of probable vallum enclosures to the west and south of the modern graveyard (illus 2 and 5). These are typically apparent as linear bands of positive magnetic readings. In the Glebe field on the western side of the Old Manse, a corresponding break in these anomalies, together with a funnel-like entrance that connects to the terminals of the enclosures, probably represent an entrance. Immediately to the north of this, a more complex series of enclosing elements is apparent with up to four possible ditches. At least two ditches can be identified continuing south, where they narrow and kink before curving eastward. Additional positive magnetic readings, indicative of cut features such as infilled ditches, abut and extend southward from the main line of the vallum. These may represent additional segmentation of the enclosure complex. A series of linear striations representing modern cultivation truncate all of the features mentioned above. A more widely spaced set of rig and furrow marks, however, seem to respect the line of the outer vallum ditch on both the eastern and western sides of the enclosure. A number of possible ditch features have been identified within the southern portion of the interior. To the north the modern graveyard and houses largely obscure any earlier features, but the townplan of Lossiemouth might preserve the northern line of the vallum. A series of anomalies recorded on the northern side of the modern graveyard confirm the presence and extent of the later Bishop's Palace. However, rather than a hexagonal plan as suggested by the New Statistical Account (NSA xiii 1845: Elginshire 151–2), the geophysical survey suggests a rectilinear groundplan, much more similar to that that still survives at nearby Spynie Palace (Walker and Woodworth 2015: 741– 7).

In addition to the Aberdeen-led work, during the same period, AOC Archaeology was commissioned by Tulloch of Cummingston Ltd to undertake survey and evaluation work in advance of housing development to the east of Kinneddar. This mainly focused town on land to the east and south of the Bishop's Palace. This work comprised both geophysical survey and excavation. The geophysical survey employed a duel Bartington Grad601-2 gradiometer with data collected in zig-zag mode and at a resolution of 1m traverse and 0.25m sample intervals, covering a total area of approximately 4.55ha. The AOC survey produced near-identical results for the area immediately south of the modern graveyard, but the survey also significantly extended eastwards allowing the eastern extent of the vallum ditches to be established (illus 2 and 5). On the eastern side, the vallum enclosures, apparent as two bands of positive magnetic readings, run in a north/northeast direction and are spaced approximately 7–12m apart. These correspond with the results of the Aberdeen survey, which together, show the southern and eastern extent of the vallum enclosures.

#### <A> EXCAVATION

Following the geophysical results of 2015 and 2016 an evaluative excavation was undertaken in 2017 by the University of Aberdeen to ground-truth the geophysical results and to obtain an absolute chronology for the features identified. The objectives for the excavation were to confirm and characterise the vallum enclosure(s) identified in the survey, confirm and characterize an annexe enclosure to the south and test interior areas of the vallum for surviving early to high medieval in situ deposits and features. No work was carried out in the modern cemetery, which remains in use today. The evaluation reported here took place over four days (6th-9th October) and comprised a team of three professional archaeologists from the University of Aberdeen and 20 University of Aberdeen undergraduate students and four

local volunteers. The fieldwork was carried out as part of the University of Aberdeen Honours-level undergraduate course 'Professional Archaeology I'. The excavation at Kinneddar was centred on NGR NJ 22376 69668, immediately to south of the graveyard, and comprised six trenches with a total excavation area of around 340m² (illus 6). The excavation areas were situated in a grassed field at c. 10m AOD with the land sloping to the east towards the former location of Loch Spynie. The underlying bedrock consisted of raised marine deposits of Holocene age – gravel, sand and silt.

Near the southern graveyard wall, four trenches were opened with features present in three out of four trenches (Illus 6). Trenches 2 and 5 had a single pit or truncated posthole in each with a possible postpipe identified in the example from Trench 5. Trench 6 revealed no features of archaeological significance. In Trench 1 modern features such as a roughly northsouth running plastic waste pipe and a centrally placed concrete sewer system restricted the extent of the excavations and had truncated some of the archaeological deposits. Nonetheless, within the (c.10m x 10m) trench there was a number of features indicative of earlier activity, including a circular setting of large post-holes, [1004], [1006], [1008], [1014] and [1016], and two successive clay floor layers, [1012] and [1013] (illus 7). The postholes appear to have formed the structural posts for a wooden building, though were no surviving floor layers or hearths associated with these features. However, approximately half of this possible structure remains unexcavated and an associated hearth may be preserved in-situ to the south. The posts were spaced up to 2m apart. It is possible that the modern waste pipe which runs through the eastern section of this structure may have truncated another post, which would explain the wide spacing between [1006] and [1016], however, this could also be interpreted as an entrance area. The post-holes varied from 0.5 to 1.3m wide and 0.35 to 0.88m deep. [1016] was the largest example excavated in Trench 1 and the only to produce definitive evidence for a postpipe (illus 7 and 8). The postpipe measured approximately 0.3m

wide and at the base of the postpipe fill was a thin, folded strip of copper alloy. The copper alloy strip appears to have been part of a plain, functional fitting for protecting the end of a leather strap of some sort. Fill (1017) from the posthole was dated to 1030-1220 cal AD (SUERC-78797 900±35; 95% probability). The fills of the other posts, [1004], [1006], [1008] and [1014] contained infrequent or occasional amounts of charcoal and small to medium sized stones that could have been used as packing material. The upper fill (1009) of feature [1008] contained fragments of a deer mandible as well as a degraded animal horn. The deer mandible was dated to 970-1160 cal AD (SUERC-78796 1006±35; 95% probability). Immediately to the northwest of this structure, an irregularly shaped pit [1010] was identified and was around 2.2m by 1m wide and up to 0.4m deep (illus 7 and 8). The edges of [1010] appear to have been lined with flat, elongated stones. The fill contained a loose dark brown silty sand with frequent amounts of pebbles and medium stones, as well as infrequent amounts of charcoal and charred roundwood.

At the northwestern corner of Trench 1, the remains of two successive clay floor layers were identified (illus 7). The larger spread, [1013], consisted of a deposit of compact greyish-yellow silty with a considerable number (*c*.50–60%) of medium sized stones and slabs, covering an area approximately 7.2m by 3.4m. In some instances, the stones seem to have been deliberately placed to form a level surface. The clay and stone deposit ranged from 0.1 to 0.25m deep, generally becoming thicker to the east. The spread was truncated to the south by the modern sewage system. Two sondages through [1013] revealed that this deposit was placed directly over the natural. Lying directly over [1013], another clay deposit, [1012], was recorded. This consisted of a compact greyish-blue silty clay. This layer covered an area of approximately 2.8m by 0.7 m and was 0.05m to 0.15 m thick. Unlike [1013], [1012] did not contain any stones or slabs. Unfortunately the clay deposits excavated contained no

datable material, but the features are suggestive of some sort of building foundation and suggest settlement deposits may survive extending northwards towards the modern cemetery.

Trench 3, which measured 10m by 3.5m, was located along the field boundary adjacent to the B9135 road, approximately 70m south of the graveyard. It was opened to investigate two lines of the possible vallum enclosure. As noted above in the geophysics results, two large ditches can be seen arcing southeastwards from the Glebe field to the west. These ditches appear to cross over somewhere under the current B9135. The fainter of the two ditches on the geophysical survey, was actually the larger identified in the excavation and likely to be the later of the two features. In the survey this can be seen to the south of the second ditch on the west side of the modern B9135 road, but where identifiable on the north to the east of the B9135. It is likely therefore that these two ditches represent successive phases of the vallum rather than contemporary features. Two linear cut features, a field drain [3011] and a plough furrow [3010], truncated the earlier archaeological features in Trench 3, limiting the area of the ditch that could be investigated (illus 9).

The smaller and earlier of the two ditches, [3014], was identified towards the centre of Trench 3. Ditch [3014] was 1.5m wide and 1.30m deep (illus 9 and 10). The ditch had irregular slopes on its two opposing sides, suggesting that the ditch had been recut, with fill (3020) within a recut. The basal fill (3022) of the ditch was a compact bluish sandy clay with occasional charcoal and cobble inclusions. The basal fill contained charcoal, which produced radiocarbon dates of 580-680 cal AD (SUERC-78805 1399±35; 95% probability) and 640-770 cal AD (SUERC-80408 1345±30; 95% probability). The basal fill (3022) was overlain by (3021) a thin lens of light brown silty sand. At the intersection of (3022) and (3021), a smithing hearth base was identified (See below). Above (3021) was (3020) a mid fill that may have been in a recut of the ditch. (3020) was a mid-greyish brown silty sand with occasional charcoal inclusions. Charcoal from (3020) was dated to 770-990 cal AD (SUERC-

79527 1129±24; 95% probability) and 600-690 cal AD (SUERC-80407 1370±30; 95% probability). This was cut by a pit or a further recut of the ditch with a brown-orange silty clay fill (3012), with frequent charcoal and occasional calcined bone inclusions. The edges of (3012) were marked by large stones. A large animal bone fragment from (3012) was dated to 680-940 cal AD (SUERC-78804 1211±35; 95% probability). The uppermost fill (3013) had unclear edges and could not be confidently distinguished from the upper fill (3003) of the secondary vallum ditch [3016], but the dating and survey data suggests [3016] cut the earlier ditch. Occasional charcoal and bone were recovered from (3013) and several large slabs sat at the interface between (3013) and the fill immediately beneath (3012).

The probable secondary vallum ditch [3016] existed to a depth of 0.9m and was around 5m wide (illus 9 and 10). The edges were gently sloping and the base was flat though irregular in parts, with a possible step, perhaps as a result of recutting the ditch. The ditch comprised at least three fills, primarily identified in section. (3023), a relatively sterile dark brownish-grey silty sand, was a basal fill that returned an early date of 620-770 cal AD (SUERC-78803 1353±35; 95% probability). (3023) may have been an earlier phase of the secondary vallum with the upper fills within a recut. The mid fill (3015) consisted of a mottled orange and brown silty sand with occasional large slag fragments at the base and frequent cobble and stone inclusions. This may suggest the use of the ditch for metalworking or the discard of metalworking waste, similar to the evidence from ditch [3014]. A cattle metatarsal from (3015) was dated to 890-1030 cal AD (SUERC-78802 1070±35; 95% probability). The upper fill (3003) consisted of a medium brownish-grey clayey sand with occasional charcoal and frequent sub-angular stone inclusions. Animal bone (primarily cattle), shell fragments, flint, fragments of iron, slag and ceramic were recovered from (3003). The ceramics were from near the surface and comprised sherds dating from the 12<sup>th</sup>

to 13<sup>th</sup> centuries AD (See below). A large mammal shaft fragment from the same context (3003) was dated to 970-1160 cal AD (SUERC-78798 1003±35; 95% probability).

Located immediately to the north of, and adjacent to ditch [3014], in the southwest corner of the trench, was a poorly defined cut feature [3017], either a pit or another ditch (illus 9 and 10). Its limits could not be clearly identified as it extended beyond the excavation area and was heavily truncated to the east by the sewage pipe. It was a least 1.5m wide and 1.20m deep with a stepped northern edge and a flat base. At least three loose fills were identified in section. The upper fill (3004) was a dark grey silty sand with occasional charcoal and bone inclusions as well as moderately frequent sandstone slabs. Charcoal from (3004) was dated to 660-780 cal AD (SUERC-80406 1286±30; 95% probability). Fill (3018) was a light greyish-brown silty sand with occasional charcoal inclusions. At the bottom of the pit was a greyish-brown silty sand (3019) with frequent cobble inclusions.

Trench 4 was located approximately 50m southeast of Trench 3, and was opened to investigate a large linear feature [4012] identified in the geophysics survey as a possible annexe enclosure (illus 11). Two linear features were identified in the trench, ditch [4012], ditch [4014], and in addition, an amorphous large pit [4016], a linear cut feature [4010] and a shell deposit (4008) (illus 11). Feature [4012], orientated northeast to southwest, was 2m wide and 0.5m deep and filled by a dark brown sandy silt (4011) (illus 12). It had straight edges and a U-shaped base and its northern edge was stepped, where a posthole [4018] was identified. Posthole [4018] was circular in plan measuring 0.35m in diameter and existed to a depth of 0.15m. Its fill was very similar to fill (4011) of the linear feature. The presence of a posthole could suggest that [4012], and perhaps also feature [4014] located immediately adjacent, formed part of a palisaded or fenced enclosure (illus 11 and 12). Charcoal from fill (4011) was dated to 1030-1210 cal AD (SUERC-78806 911±35; 95% probability). Alongside [4012], a shallow additional linear feature [4014], approximetely 1m wide and 0.4m deep ran

parallel to the larger linear feature (illus 11 and 12). This feature had concave edges and a tapered base and was filled by a dark brownish black sandy silt (4015) with occasional bone and moderate stone inclusions. Two clay and silt deposits (4005, 4006) overlay features [4012] and [4014].

A poorly defined cut feature [4016] was identified immediately south of ditch [4014] (illus 11 and 12). It was filled with mid-grey sandy silt (4017) with occasional small stone inclusions. Ditches [4012; 4014] and pit [4016] were truncated by a possible palisade slot [4010] (illus 11 and 12). This linear feature, orientated northwest to southeast, was located along the northern edge of the excavation trench. It extended to 0.25m in depth and 0.6m in width and was filled by a dark brown/black sandy silt (4007), charcoal from which was dated to 1020-1170 cal AD (SUERC-78807 938±35; 95% probability). The shell deposit (4008) was located against the southern edge of the excavation trench (illus 11), and was exposed after the removal of a light grey clayey-silt deposit (4003). The visible extent of the shell deposit was 0.5m by 1m and it appeared to extend beyond the excavation trench to the south.

In addition to the Aberdeen excavation results, evaluation by AOC Archaeology produced additional information regarding the vallum to the east of the Aberdeen trenches. The AOC trenching was limited to a 7% evaluation of the development area to the east and south of the modern graveyard at Kinneddar, alongside stripping of an access road to the immediate south (illus 13). The access road trench was a maximum of 8m wide. This trench along with the linear evaluation trenches allowed the larger of the two vallum ditches to be traced on its eastern limits.

A large ditch [4201/2401] (illus 13), likely to be the same ditch as the secondary vallum ditch [3016] found in the Aberdeen excavation, was traced in at least six of the AOC evaluation trenches. The profile of ditch [4201/2401] was very similar to [3016] identified in

the Aberdeen project – a ditch around 4m to 5.6m wide and at least 1m deep. The basal fill showed evidence of gradual silting and inwash, with upper deposits suggestive of much more rapid and deliberate backfilling. A radiocarbon date of 660–780 cal AD (SUERC-73462; 95% probability) was returned from ash roundwood charcoal from the base of one of the sections excavated across the ditch. The uppermost fills produced redware and green glaze pottery likely to span the 13<sup>th</sup>-15<sup>th</sup> centuries (Haggarty 2017: 22–4). The upper fills also contained iron slag and hammerscale (McLaren 2017: 25). The latter is diagnostic of bloomor blacksmithing.

In the AOC evaluation two north-south ditches were also identified to the north of the vallum ditch. Ditch [6001] (illus 13) was cut by the vallum ditch. In the geophysical survey, this ditch can be identified heading northwards, but its route further north is obscured by the modern field boundary. On the south side of the vallum this ditch appears to curve southeast and may join up with ditch [4012] identified in Trench 4 of the Aberdeen excavations. Ditch [6001] was around 3m wide and around 0.65m deep, with three distinct fills (6002), (6003) and (6004). Fill (6004), the basal fill of ditch, comprised a dark brown/orange medium sand with charcoal flecking. A radiocarbon date of 2040-1880 cal BC (SUERC-73460) was obtained from the basal fill. A mid fill (6002) was a dark brown medium sand and the uppermost fill (6003) was a similar material and appeared to lie within a recut of the ditch. While the radiocarbon date might suggest a prehistoric date for the ditch, it could be that this represents residual material and that the ditch cutting was a later event. Certainly, the fact that this feature aligns with medieval features identified in Trench 4 of the Aberdeen excavations might suggest it was a medieval feature, but at least one phase of it was cut by the vallum enclosure, though it may have been designed to connect to an earlier phase of the vallum. A further north-south linear ditch [2301] was also identified in the AOC trenching, but not dated. It was around 3m wide and 0.55m deep, with two fills. Metalworking slag was

retrieved from the ditch fills. In addition to the ditches a number of cut features, [6009], [6025], [6027], [4203], [4205], [4207], [4216] and [2403], were identified, representing isolated pits and postholes, but none were diagnostic and none of the features contained datable material. A well-constructed well [6005] was also found – measuring 1.9m north-south by 1.65m transversely. This was lined with stones and backfilled with material containing 13<sup>th</sup> to 14<sup>th</sup> century ceramics.

## <A> SPECIALIST REPORTS

#### <B> THE FAUNAL ASSEMBLAGE

The University of Aberdeen excavations produced a small faunal assemblage (N = 357) from Kinneddar and was the subject of an assessment the results of which are reported below. The animal remains were mainly recovered from fills (3003) and (3015) from the secondary vallum ditch [3016], from the fill (3012) of a pit or recut of the primary vallum ditch [3014], and from a fill (3004) of a large cut feature [3017] in Trench 3. These features represented 98% of the bone assemblage (Table 1). Animal bones were also recovered from the fill (1009) of posthole [1006] in Trench 1 and from clay deposit (4006) in Trench 4. The animal bone was hand-collected and no bulk samples were taken for the recovery of faunal remains potentially resulting in the underrepresentation of small mammal, bird, fish and amphibian remains (Reitz and Wing 2008). Nevertheless, small soil samples (2L) for the recovery of dating material were taken and processed in November 2017 at the University of Aberdeen and did not yield any faunal remains with the exception of calcined bones flecks or tiny fragments (<5mm).

Mammal bones were identified to species when possible, using the reference collection at the University of Aberdeen and with reference to Schmid (1972), and if not, were grouped into the following categories: large mammal (horse/cow/large cervid size)

medium mammal 1 (sheep/goat/pig/small cervid size) and medium mammal 2 (dog/cat/hare size) based on Dobney et al. (1999). There was no attempt to distinguish sheep from goat remains with all bones being recorded as sheep/goat (*Caprini sp.*). The number of fragments with unfused epiphyses were also recorded by species. These were recorded as neonatal (very small with an obviously spongy and porous appearance to the bone), juvenile (an obvious porous appearance to the bone but not as small as neonatal) or unfused (epiphyses unfused but the diaphysis appears to be adult in texture). The surface preservation of each recordable fragment was recorded as either 'poor', 'moderate' or 'good' and evidence of burning and gnawing was also noted. Evidence of butchery was recorded with reference to the type of mark displayed on the bone such as chops, cuts, and sawing.

Out of the 357 bone fragments recovered from the excavation only 68 fragments (19%) could be identified beyond class level with the remainder comprised mainly of long bone shaft fragments from large or medium-sized mammals. The assemblage was relatively well preserved based on bone surface condition (over 75% of fragments are considered in good condition) and there was no evidence of weathering which suggests the rapid burial of the bones after their disposal (Behrensmeyer 1978). Their preservation in the archaeological layers could have benefitted from the sandy nature of most deposits and reflect low soil acidity. Other taphonomic factors can also affect the survival and condition of faunal assemblages such as butchery, disposal patterns and gnawing. Butchery and gnawing were evidenced by the observation of rare cut marks (3%) and canid teeth marks (1.4%) on some specimens. Evidence of burning was noted on 8.6% of bone fragments with calcined fragments (N=19) slightly more frequent than charred or burnt fragments (N=12).

The bone assemblage was dominated by domesticates (cattle/ovicaprid/pig) representing 87% of the identified faunal remains with cattle (41%) and sheep/goat (31%) far

more frequent than pig (14.7%). Fish (N=4), horse (N=1) and possible deer remains (N=4) completed the faunal assemblage.

Table 1: Taxonomic representation at Kinneddar (NISP)

The small size of the assemblage prevented the analysis of body part representation. Cattle remains were primarily composed of head and feet bones, though shaft fragments from long bones of large mammals, probably cattle, may indicate the presence of most body parts which would suggest that animals were brought in on the hoof or raised locally as observed at Portmahomack (Seetah 2016: D134). Horn core was identified for both cattle and sheep, which could suggest the use of horn sheath. Cranial, long bones and feet bones were also identified among the sheep remains. With the exception of an unfused sheep/goat humerus and a deciduous pig third molar, all other specimens from cattle, sheep/goat and pig were fused suggesting that the animal bones discarded in the features excavated came from adult individuals. Butchery marks were rare and consisted of occasional cut marks and chop marks observed on cattle and sheep bones.

Currently the small size of the assemblage limits the interpretative value of the faunal remains from the evaluation though some comments on the economy of the site and comparisons to the Pictish monastic site of Portmahomack (Carver et al 2016) can be made. The animal component of the economy was dominated by domestic animals with the possible inclusion of wild animals. The presence of fish and shellfish in the assemblage suggests the exploitation of a marine environment, either from the sea or Loch Spynie, but the numbers are very small. This pattern of predominance of domestic species combined with the exploitation of the local environment was also observed at Portmahomack (Seetah 2016). The

uncommonness of juvenile individuals in the Kinneddar assemblage suggests perhaps a focus on the use of cattle and sheep/goat for secondary products. This was also observed at Portmahomack where cattle were the main source of traction power, dairy products and leather (Seetah 2016: D135). There was no evidence for the production of vellum at Kinneddar as no specimens were from calves under 6 months old (Carver 2016). At Kinneddar, the presence of a juvenile pig specimen may relate to meat production and pigs were perhaps the primary source of meat. However, pigs were uncommon and meat production was perhaps not the main concern based on the features excavated, an observation made by Seetah for the Portmahomack assemblage (Seetah 2016: D135).

## <B> MEDIEVAL POTTERY

Fourteen sherds of medieval pottery were examined by eye and x10 lens and identified where possible to known fabric types and vessel forms. No petrological or chemical analysis has been undertaken. There are two sherds in a distinctive gritty black brown fabric type from 3003 (FN6 and FN12), a single slightly hooked everted rimsherd and a rilled bodysherd (illus 14). Pottery of this form has previously been recovered from excavations on Elgin High Street in the mid 1980s and at Duffus Castle (Hall et al 1998: 764 Illus 5 Cats 20-24, Cannell and Tabraham 1994: 388 Illus 6 Cat 2) and dated to the 12<sup>th</sup> century. Chemical analysis funded by Historic Scotland suggested that this may be a locally produced product although so far no production sites have been located (Jones et al 2003: 66, 71, 79–80). The remaining thirteen sherds are from Scottish Redware vessels in a micaceous version of a widespread Scottish pottery tradition (illus 14). Chemical sourcing, again funded by Historic Scotland, has suggested that there were production centres in all of the main Scottish river valleys where there were abundant sources of red firing blue clays (Haggarty, Hall and Chenery 2011). The same study indicated that it was possible to chemically separate Redwares from Elgin and Spynie Palace due to their very distinctive signatures. The sherds from Kinneddar

are from both cooking vessels and jugs with jugs being better represented. There is a single piece of splash glazed roof tile from (3003) (FN10). This small group of pottery is quite tightly dated to the 12<sup>th</sup> to 13<sup>th</sup> centuries with only the roof tile fragment (3003 FN10) and unglazed rim (3003/3009 FN11) being of a potentially slightly later date (13<sup>th</sup>-15<sup>th</sup>). The presence of the potentially 12<sup>th</sup> century gritty fabric is of interest and those sherds could usefully be chemically sourced to confirm their similarity to the fabrics from Elgin and Duffus Castle.

## <B> IRONWORKING DEBRIS

Three fragments of ironworking debris were recovered (a full catalogue is in the archive). A smithing hearth base was recovered from at the intersection of (3022) and (3021) in the primary vallum fill and two fragments from the secondary vallum fill (3015) included a small undiagnostic fragment and one more complex form, comprising two plano-convex bases superimposed with a thin layer of charcoal in between, probably deriving from bloom-refining.

Though this assemblage is very small, several features allow us to interpret the potential scale and nature of early medieval ironworking activity at Kinneddar. Superimposed slag cakes as found in the primary vallum ditch indicate repeated activity in the same hearth without clearing it out, suggesting this was regular activity and that the hearths were substantial enough to allow for this. That fragments have been recovered from the fills of both the earlier and later ditches suggests ironworking was potentially taking place over several centuries.

Ironworking evidence is a common feature of other early medieval ecclesiastical sites in Scotland e.g. the Period 2 and 3 metal-workshops at Portmahomack (AD 700-1100, Spall and Mortimer 2016: D108-9), industrial areas in Periods I-IV at Whithorn (Hill 1997) and

substantial spreads of ironworking debris at Iona (Campbell and Maldonado 2016: 90; 2017: 35; Cruickshanks 2018).

Although ironworking was a major activity on roundhouse settlements in Moray up until around the 1st/2nd centuries AD, a lack of securely-dated early medieval evidence leaves an incomplete picture of how the craft continued to develop there (Cruickshanks 2017: 159–214). Despite the small amount of evidence, the ironworking debris from Kinneddar is therefore a significant addition to our understanding of the organisation and development of ironworking in this area.

#### <B> DATING

A total of 14 radiocarbon dates are available from features associated with the University of Aberdeen trenches. The dates are from single-entity samples (Ashmore 1999) of wood charcoal and animal bone with the samples processed by the Scottish Universities

Environmental Research Centre (SUERC) Radiocarbon Dating Laboratory. The samples were pretreated following the protocols described in Dunbar et al (2016). Graphite targets were prepared and measured following Naysmith et al (2010). SUERC maintains rigorous internal quality assurance procedures and participation in international inter-comparisons (Scott et al 2003, 2007, 2010) indicates no laboratory offsets, thus validating the measurement precision quoted for the radiocarbon ages.

Conventional radiocarbon ages (Stuiver and Polach 1977) are presented in Table 2, where they are quoted in accordance with the Trondheim convention (Stuiver and Kra 1986). Calibrated date ranges were calculated using the terrestrial calibration curve (IntCal13) of Reimer *et al.* (2013) and OxCal v4.3 (Bronk Ramsey 1995, 1998, 2001, 2009). The date ranges in Table 2 have been calculated using the maximum intercept method (Stuiver and

Reimer 1986) and quoted with the endpoints rounded outward to 10 years. The probabilities shown in (illus 15) were calculated using the probability method of Stuiver and Reimer (1993).

A Bayesian approach has been applied to the interpretation of the chronology of Kinneddar (Buck et al 1996). Although simple calibrated dates are accurate estimates of the age of samples, this is not usually what archaeologists really wish to know. It is the dates of the archaeological events represented by those samples that are of interest. In this case, for example, it is the timing of the activity associated with the digging and infilling of the vallum ditches, rather than the dates of individual samples. The chronology of this activity can be estimated not only by using the absolute dating derived from the radiocarbon measurements, but also by using the stratigraphic relationships between samples and the relative dating information provided by the archaeological phasing.

Methodologies are now available that allows the combination of these different types of information explicitly, to produce realistic estimates of the dates of archaeological interest. It should be emphasised that the posterior density estimates produced by this modelling are not absolute. They are interpretative estimates, which can and will change as further data become available and as other researchers choose to model the existing data from different perspectives. The technique used is a form of Markov Chain Monte Carlo sampling and has been applied using the program OxCal v4.3 (http://c14.arch.ox.ac.uk/). Details of the algorithms employed by this program are available in Bronk Ramsey (1995, 1998, 2001, 2009) or from the online manual. The algorithm used in the models can be derived from the OxCal keywords and bracket structure shown in Figures (illus 15).

The radiocarbon results and their location within the observed stratigraphy of the site has been discussed in detail in the previous sections. (illus 16) is a modified matrix that shows the modelled relationships between the samples. Of particular note is the sequence of

dates in the vallum ditches in Trench 3. Context (3022) is the basal fill of the second ditch, from which there are two results on fragments of charcoal placing it in the 6<sup>th</sup>–8<sup>th</sup> centuries cal AD. (3022) is overlain by (3021), which is a deposit that contains metalworking debris, and above this is (3020) from near the base of which there are two results that are considerably different in date. SUERC-80407, from *Ericales* sp. charcoal dates to the 6<sup>th</sup>–8<sup>th</sup> centuries cal AD, while SUERC-79527, on willow charcoal, dates to the 9<sup>th</sup> or 10<sup>th</sup> century cal AD. Since the two results are from the same environmental sample near the base of this thick deposit, SUERC-80407 has been included as a *tpq* for the context since it is likely reworked material. Cut into (3020) is a pit or later ditch (3012) cutting into fill (3020). This feature contained frequent charcoal and cremated animal bone. The radiocarbon date (SUERC-78804) from (3012) is on a large herbivore atlas, and it is earlier than the date (SUERC-79527) from the underlying (3020). Therefore, this animal bone is considered to be residual in the context and has been excluded from the modelling.

With these two adjustments made, the radiocarbon dates have good agreement (Amodel=111) with the archaeological information. The model estimates that the overall activity at Kinneddar began in *cal AD 500–670 (95% probability*; illus 15; *start: Kinneddar*), and probably in *cal AD 585–655 (68% probability*). The overall activity as represented by the samples dated ended in *cal AD 1050–1280 (95% probability*; illus 15; *end: Kinneddar*), and probably in *cal AD 1090–1200 (68% probability*). The span of the dated activity is *410–735 years (95% probability*; Illus 17; *span: Kinneddar*), and probably *460–610 years (68% probability*). Assessing the dating of the vallum ditches is difficult given the recutting of these features and the incorporation of residual material. However, for ditch [3014] the stratigraphically earliest sample dated (SUERC-78805) from (3022) provides a *taq* of *cal AD 600–680 (95% probability*; illus 15; *SUERC-78805*), and for ditch [3016], SUERC-78803, the modelled result provides a *taq* of either *cal AD 630–720 (86% probability*; illus 15;

SUERC-78803: 3023) or cal AD 740–770 (9% probability). The latter is closer to the radiocarbon date (SUERC-73462) 660–780 cal AD, from the basal fill of the vallum ditch excavated by AOC Archaeology.

#### <A> DISCUSSION

Various strands of evidence highlight the importance of Kinneddar as a major ecclesiastical site in the early medieval period. The sculptural evidence is extensive and displays connections to other major Pictish ecclesiastical sites as exemplified by the David fragment (e.g. Dransart 2001; Henderson 1998: 130; Henderson and Henderson 2004: 129-130). The vallum enclosed an extensive area that could have been around 8.6ha and the presence of annexe enclosures/field boundaries dating to the 11th-12th century suggests the size and importance of the site grew through time. The full layout of the vallum at Kinneddar remains unknown due to urban development to the north of the site, but the emerging plan has some striking resemblances to other major contemporary ecclesiastical sites. The layout of the vallum for example, shows parallels to Portmahomack which is likely to have comprised a similar sub-rectangular form, though the area enclosed at Portmahomack is likely to have been much more modest (Carver et al 2016: 37). The nearest parallel in terms of form and scale to Kinneddar is actually Iona which was enclosed with a very similar sub-rectangular series of vallum ditch(es), with a very similar doubling of the ditch on the west side, with both sites having annexe enclosures on the south side and both encompassing a similarly sized enclosed area (illus 18).

The structural parallels between the enclosure at Kinneddar and that at Iona are intriguing and perhaps suggests very direct connections between the Columban Church and

the establishment of Kinneddar. Our understanding of the spread of Christianity to the Picts is still very hazy. Traditional accounts of the conversion of northern Pictland have, following Bede, focused on St Columba and his immediate successors, but it is likely that conversion process was complex (Clancy 2008: 363–4, 392; Fraser 2009: 68–115). As Adomnán's 'Life of St Columba', written ca. 697, indicates (Sharpe 1995), Columba was involved in some missionary activity, but recent accounts have suggested that the role of the Columban church in the conversion process in northern Pictland has been exaggerated (Fraser 2009: 97–9, 103–5; Taylor 1996). Nevertheless, Iona was clearly in the 7<sup>th</sup> and 8<sup>th</sup> centuries a prestigious monastery, with daughter houses in Ireland, Northumbria, Dál Riata, and presumably Pictland (Herbert 1996: 9–56), so even if Kinneddar was not a Columban establishment, it may have been a place whose layout was to be emulated. The radiocarbon dating evidence from Kinneddar suggests activity as early as the late 6<sup>th</sup> century and certainly by the 7<sup>th</sup> century with the primary vallum ditch dug sometime after *cal AD 600–680*.

The material evidence from Kinneddar is as yet slight, but the metalworking evidence from the excavations can be highlighted. The evidence for metalworking found in various fills of the vallum ditch would suggest Kinneddar, like Portmahomack, was an important centre of production and the size of enclosure would suggest that it contained areas of extensive settlement and industry. Indeed, the size of the vallum enclosures can again be highlighted with the newly identified vallum on a par with the larger ecclesiastical enclosures found in regions such as Ireland where we have a better understanding of the range and form of ecclesiastical enclosure complexes (O'Sullivan et al 2014: 147). In Ireland, where the scale of excavation has also been larger, the larger ecclesiastical sites have been compared to urban settlements, dubbed in some cases as 'monastic towns' (e.g. Doherty 1985). Doherty (1985) suggested that some of the most influential sites were large religio-economic complexes incorporating social, religious, administrative and commercial functions. Doherty's writings

have generated fierce debate (e.g. Etchingham 1999; Graham 1987; Swift 1998; Valante 1998), but it is the case that the larger ecclesiastical sites, such as Clonmacnoise, were important consumer centres that can be compared in some respects with the urban centres such as Dublin (O'Sullivan et al. 2014: 177). The abundant evidence for intensified economies and for the use of technological advances such as mill technology and fish trapping has helped underline the importance of these sites in early Irish society (Davies and Flechner 2016). The more limited evidence for these innovations in regions such as Wales and Scotland led Davies and Flechner to suggest that Ireland's economy was transformed more in the early medieval period than the other countries (Davies and Flechner 2016: 381–2, 384–5). However, in Pictland, apart from Portmahomack, few sites have been excavated on any scale and the relative lack of excavations of all types of sites in Pictland compared to Ireland, means that it is difficult to compare the relative development of sites, until more sites have been investigated.

In terms of wider context the only other archaeologically investigated early ecclesiastical centre in northern Pictland is Portmahomack. Portmahomack has been interpreted as having origins as an elite settlement in the 5<sup>th</sup> to 7<sup>th</sup> centuries AD based on a small number of structural remains and finds, some early cist burials and the possible presence of a barrow cemetery (Carver 2016, 89; Carver et al 2016). The monastic settlement began sometime in the late 7<sup>th</sup> or early 8<sup>th</sup> century AD. Within the vallum, on either side of a road heading towards the church, evidence for craftworking was found with the production of precious metalwork, glass and vellum being undertaken to the south of the church. Large timber buildings were also identified at the site and those and evidence for the management of water with a dam, bridge and pool and other structural remains suggest a densely populated site. During the excavations hundreds of fragments of sculpture were found with different types of monument identifiable. These included simple cross-marked stones, grave-

markers, the lid of a sarcophagus, a possible panelled shrine, a corbel for a stone church and fragments of four monumental cross-slabs (Carver et al 2016: 167). At the church, 58 burials from Period 2, the monastic phase, were identified, the vast majority mature males, strongly suggestive of a monastic population. The evidence from Portmahomack points to the rich data that can be obtained from larger-scale investigation of early church sites in northern Pictland.

Other important church centres in northern Pictland are likely to have included Rosemarkie, Easter Ross, with Rosemarkie argued to have been the episcopal centre for Fortriu (Woolf 2007a: 56). The urban area around Rosemarkie is significantly built up, making identification of any kind of enclosing vallum (if one existed) difficult. Nonetheless, a large body of early Christian sculpture survives from the site and is of a sufficiently diverse character to suggest a very important early church existed here. The sculptural assemblage includes a magnificent cross-slab, decorated panels and what may be architectural fragments (Henderson and Henderson 2004: 66, 211).

Nearer to Kinneddar the impressive Pictish fort at Burghead also preserves important examples of early Christian sculpture. The sculpture appears to have been associated with an early chapel depicted on General Roy's 18<sup>th</sup> century map as a level area adjacent to the entrance causeway through the outer defences of the fort (Oram 2007: 256). The chapel at Burghead and a nearby well is dedicated to St Aethan, a dedication which could be to any one of the many saints who shared this name, including the Columban Bishop Aidan of Lindisfarne who died in 651 after evangelising among the Northumbrians (Ó Riain 2011: 71–5, 183–208; Macquarrie 2012: 322). The sculpture from Burghead includes fragments bearing interlace and key-pattern that may be from a cross-slab or series of cross-slabs, a slotted corner slab, and a fragment of a panel with a carving of a stag being brought down by hounds (Henderson and Henderson 2004: 203). The latter two fragments suggest the presence

of composite shrine monuments of the type found at Kinneddar. There is also a fragment from a small cross-slab with a relief-carved cross on the front and a mounted warrior on the back. The sculptural evidence hints at an important early Christian site being a key feature of the fortified settlement at Burghead in the 8<sup>th</sup> and 9<sup>th</sup> centuries AD, contemporary with at least some phases of the ecclesiastical site at Kinneddar.

All of these sites – Portmahomack, Rosemarkie, Burghead and Kinneddar may have lain within the bounds of the powerful kingdom of Fortriu (Woolf 2006: 201), and the rich sculptural evidence from these sites may indicate these were amongst the larger ecclesiastical establishments within the kingdom at least once it had expanded its control in the late 7<sup>th</sup> century. However, it is likely that there was a patchwork of ecclesiastical sites of different sizes and form within this area of northern Pictland (cf. Clancy 2008: 391). In the same broad area there are more modest enclosed sites with possible evidence for an early church and small collections of sculpture at sites such as Congash, Inverness-shire, that may represent examples of important, but smaller-scale ecclesiastical establishments (Canmore ID 15675). Within north-eastern coastal areas of Easter Ross, Inverness-shire and Moray there are also sites with isolated cross-slabs such as that found Edderton, Ross and Cromarty, Glenferness House, Inverness-shire, Rodney's Stone (Brodie), Moray, and the fine granite example at Elgin Cathedral (Allen and Anderson 1903: 135-6). These form part of a rich corpus of medieval sculpture across the area stretching from Moray to Easter Ross, but this surviving evidence may suggest that royal patronage flowed to particular locations in this region of northern Pictland. The David imagery on the cross-slab at Nigg, on a recumbent gravemarker at Kincardine and on the shrine fragment from Kinneddar, for example, stand out and have been used to suggest royal patronage was concentrated at these establishments (Fraser 2009: 360).

Given Kinneddar's possible connections to Iona, the size of its vallum enclosure and the suggestions of royal patronage within the sculptural assemblage what role might the site have played in the wider ecclesiastical organization of northern Pictland? Given that Kinneddar was one of the three seats of the bishops of Moray in the immediate period before the cathedral was fixed at Spynie in the early thirteenth century, it is tempting to argue that Kinneddar had a similar role earlier. Certainly the concentration of important later ecclesiastical sites in this area at Kinneddar, Spynie, Elgin and Birnie closely connected to the bishops of Moray suggest that it had particular significance by the twelfth century, but how this developed – for instance when Kinneddar came under episcopal control, is uncertain. Alex Woolf (2007b: 316–20) has suggested that before the twelfth century bishops had no fixed seat but were instead itinerant chorepiscopi. Certainly in Ireland at the same time, the centres, areas of authority and hierarchies of bishoprics could change over time, (Etchingham 1999: 177–94), so we should not necessarily expect a permanent episcopal situation in early medieval Pictland. However, the surviving sculptural evidence from Kinneddar is currently unrivalled in Moray and it must have undoubtedly had an important role in the ecclesiastical organization of the area in the early medieval period.

The place-name and dedicatory evidence might contribute a little more. The place-name of Kinneddar derives from Gaelic *cenn*, 'head, end' (either in terms of promontory or a chief place), plus *foithir*, probably derived from a Pictish word meaning something like 'district, region', thus it means 'end of the *foithir* (district)' (Taylor 2011: 107; Taylor with Márkus 2012: 325, 376–8). It contains the same elements as the parish name of King Edward further east in Aberdeenshire, where Taylor has suggested that the parish name refers to the same entity as represented by nearby Fedderate, the centre of a late-medieval barony whose name also contains *foithir* (Taylor 2008: 277–8, including n. 11). *Foithir* is Gaelic in form, but its use in place-names is largely confined to eastern Scotland, and often is found in high-

status names, including parishes, such as the promontory fort of Dunottar in Kincardineshire, and the area of Fothrif (*foithir* plus *Fib*, 'Fife' (Taylor 2012: 72–89, esp.73)), so it seems to have been a similar sounding Pictish term adopted into Scottish Gaelic, although a full study is still needed (Taylor 2011: 107; Taylor with Márkus 2012: 376–8). Further research on *foithir* names is required before a more exact date-range and meaning can be determined, but at least in the case of Fothrif, Taylor regards it as quite plausible that it originated as a subdivision of Fife in the time of the Pictish kingdom. Similarly, Kinneddar, may have been either a centre or more likely a subordinate focus to an administrative unit in the area. Given the area's geography, largely cut off from the mainland, it is likely that Burghead was a significant part of the same entity, probably the territory's centre.

In terms of the dedication of the site, according to the Aberdeen Breviary published in 1510, Kinneddar was initially an oratory or cell, with a 'stone bed' established by *Geruadius*, an Irish saint and miracle worker (Dransart 2001: 239; Clancy 2008: 378; Macquarrie 2012: 266–9). The Irish ancestry given to him in the text is not trustworthy (Macquarrie 2012: xxix, 365), but nor are later texts which depict a *Gervadius* as a bishop of Moray (Dransart 2003: 241), since they probably reflect the late medieval episcopal significance of Kinneddar, rather than reflecting any early tradition. Later, modern texts about the area, mention sites in the parish linked to a hermit called St Gerardine (*OSA* iv 1792: 85; Grant and Leslie 1798: 122; *NSA* xiii 1845: Elginshire 149; Keith 1975: 11–13). As Thomas Clancy, following earlier scholars, has asserted, both *Geruadius*, *Gervadius* and Gerardine are forms of the same name, Gartnait (Clancy 2008: 378; cf. Forbes 1872: 355), so it is likely that the parish's dedication was to a saint of this name. Gartnait is a name found elsewhere in the Pictish king-lists (Anderson 2011: 246–8), in the notes in the Book of Deer for a twelfth-century mormaer of Buchan (Broun 2008: 346–8; Clancy 2008: 378), and in the 7<sup>th</sup> century in a leading Gaelic kindred based on Skye (Fraser 2004: 85–9; 2005: 129), and is last found in the Irish

chronicles in the 'Annals of Ulster' at 716.2 (Mac Airt and Mac Niocaill 1983: 170). The name does not necessarily identify the bearer as 'Pictish', but its distribution in Pictland east of the Highland watershed and in the northern part of the western seaboard indicates that the Gartnait dedication at Kinneddar celebrated a local or regional saint or important Pictish secular figure associated with the site. The appearance of Gartnait in the king-lists might suggest royal connections, which can sit alongside the evidence for royal connections displayed in the sculpture, most prominently in the figure of David, but, given the slim textual evidence we have, this remains largely speculation.

## <A> CONCLUSIONS

The new evidence from Kinneddar highlights the site as a major ecclesiastical centre of northern Pictland that was established by the 7<sup>th</sup> century. The vallum enclosures are the largest yet identified in northern Pictland and the recent excavations suggest important information on the character of the site is preserved within the enclosures despite intensive cultivation and redevelopment of the area in recent centuries. Undoubtedly future work at the site can continue to flesh out our picture of this important site. In particular, evidence for the context of the sculptural evidence from the site is particularly wanting and the evidence for settlement and metalworking is likely to be significantly increased with further work. The modern town of Lossiemouth and more recent development to the east has begun to encroach on the site, but large areas remain to be explored and future archaeological investigation is sure to reveal more regarding the character and significance of this major ecclesiastical site of Pictland.

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Taxon					Contexts				
	Scientific								
Common name	name	1009	3003	3003?	3004	3012	3015	4006	Total
Cattle	Bos taurus		11		9	1	1	2	24
	cf. Bos								
Cattle?	taurus		1	2	1				4
Sheep/Goat	Caprini sp.		5	7	2		1		15
	cf. Caprini								
Sheep/Goat?	sp.		2		4				6
Pig	Sus scrofa		5				1		6
Pig?	cf. Sus scrofa		4						4
Horse	Equus sp.		1						1
Deer?	cf. Cervidae	1	3						4
Large-sized mammal		1	11	17	7		1		37
Medium-sized									
mammal <u>1</u>			27	15	11		9		62
Mammal									
indeterminate			82		64	7	14		167
Fish	Osteichthyes		1		3				4
Indeterminate				23					23
Total		2	153	64	101	8	27	2	357

Table 1: Taxonomic representation at Kinnedar <u>based on (Number of Identified Specimens (NISP)</u>

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Site	Lab No	Material	δ <sup>13</sup> C	Context	Radiocarbon Age (BP)	Calibrated date (95% confidence) cal AD
Kinneddar	SUERC-	Charcoal:	-26.2	Secondary vallum ditch basal fill 6034b; AOC		
	73462	Alder		Archaeology evaluation	1286±32	660-780
Kinneddar	SUERC-	Animal bone:	-22.7			
	78796	Deer mandible		Pit fill 1009	1006±35	970-1160
Kinneddar		Charcoal:	-25.8			
	SUERC-	Corylus cf				
	78797	avellana		Pit fill 1017	900±35	1030-1220
Kinneddar		Animal bone:	-22.0			
		large mammal				
	SUERC-	shaft				
	78798	fragement		Secondary vallum ditch upper fill 3003	1003±35	970-1160
Kinneddar		Animal bone:	-22.2			
	SUERC-	cattle				
	78802	metatarsal		Secondary vallum ditch lower fill 3015	1070±35	890-1030
Kinneddar		Charcoal:	-26.2			
	SUERC-	Corylus cf				
	78803	avellana		Secondary vallum ditch basal fill 3023	1353±35	620-770
Kinneddar	SUERC-	Charcoal:	-26.1			
	78805	Fraximus sp.		Primary vallum ditch basal fill 3022	1399±35	580-680

Kinneddar	SUERC- 80408	Charcoal: Indet.	-24.8	Primary vallum ditch basal fill 3022	1345±30	640-770
Kinneddar	SUERC- 80407	Charcoal: Ericales	-26.7	Primary vallum ditch mid fill 3020	1370±30	600-690
Kinneddar	SUERC- 79527	Charcoal: Salix sp.	-26.8	Primary vallum ditch mid fill 3020	1129±24	770-990
Kinneddar	SUERC- 78804	Animal bone : large herbivore atlas	-22.3	Primary vallum ditch upper fill 3012	1211±35	680-940
Kinneddar	SUERC- 80406	Charcoal: Ericales	-27.0	Large pit/additional ditch Trench 3; Cut 3017, upper fill 3004	1286±30	660-780
Kinneddar	SUERC- 78806	Charcoal: Betula sp.	-24.8	Annexe enclosure/field boundary 4012, fill 4011	911±35	1030-1210
Kinneddar	SUERC- 78807	Charcoal: Corylus cf avellana	-27.1	Annexe enclosure/palisade 4010, fill 4007	938±35	1020-1170