**Mesolithic Pyrotechnology: Practices and Perceptions in Early Holocene Coastal Norway**

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**Supplementary Material**

***Table S1.*** *Sites from northern Norway with radiocarbon dates from structures and/or lithic concentrations typologically dated to the early Holocene. All dates uncal bp. \* indicates definite remains of a dwelling at the site.*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Site name** | **Pyrotechnological evidence** | **Fuel** | **Lab. no.** | **Radiocarbon date uncal bp** | **Reference** |
| 1 | Lagesiid´bakti\* | Scattered charcoal, burnt red sand | Pine | WK11598 | 9940±101 bp | Grydeland, 2005 |
| 2 | Čåkki 1\* | Charcoal concentrations | Pine  Birch | WK11600  WK11599 | 9782±95 bp  9166±95 bp | Grydeland, 2006 |
| 3 | Nii’beræppen 3\* | Several partly overlapping charcoal concentrations >60 cm; burnt bone (marine and terrest.) | Pine | Tua3468 | 9550±55 bp | Grydeland, 2006 |
| 4 | Stuorrasiida-1\* | Several charcoal concentrations | Birch | TUa3467 | 8365±50 bp | Grydeland, 2006 |
| 5 | Starehnjunni  House A\* | Activity area outside house | Birch | T5428 | 7710±480 bp | Engelstad, 1989 |
| 5 | Starehnjunni  House E\* | Charcoal in wall | Birch  Birch | Tra1045  Tra1042 | 8880±45 bp  8470±45 bp | Anja Niemi *pers. com*.; Rankama & Känkänpää, 2018 |
| 6 | Mortensnes  R10 F2\* | Area in centre of dwelling with darker gravel and scattered charcoal fragments | Unspecified charcoal | T6415 | 8520±130 bp | Schanche, 1988 |
| 7 | Løkvika | Two charcoal-rich areas, one in a natural depression, mixed with bone fragments | Birch  Terrest. bone?  Terrest. bone?  Terrest. bone? or bird? | Beta259540  Beta259541  Beta259542  Beta259543  TUa7892 | 9830±60 bp  9890±60 bp  9650±60 bp  9920±60 bp  9640±70 bp | Kleppe, 2014, 2018 |
| 8 | Sarnes B5 | Scattered charcoal in depression, in or by a tent-ring | Unspecified charcoal | Beta 66586 | 9820±60 bp | Thommesen, 1996 |
| 8 | Sarnes B4/F3 | Depression filled with tiny flecks of charred material mixed with sand | Unspecified bone | TUa879 M/T/D | 7710±75 bp  8105±80 bp  8120±75 bp | Thommesen, 1996; Blankholm, 2004 |
| 9 | Slettnes VII | Concentration of burnt material next to a small depression | Unspecified material | Beta58660 | 9610±80 bp | Hesjedal et al., 1996 |
| 9 | Slettnes IVA  F45\* | Cleared area with some fire-cracked stones and patches of charcoal and soot over large areas of presumed floor | Unspecified charcoal | Beta49007  Beta49008 | 8550±100 bp  8880±100 bp | Hesjedal et al., 1996 |
| 10 | Kviteberg | Oval pit, *c.* 1.2 × 0.6 m, lined on one side by head-sized stone and filled with fire-cracked stones. Compact charcoal layer at base | Willow | Wk23669 | 8226±60 bp | Damm & Niemi, 2010 |
| 11 | Bergli 1A  Structure 1\* | Large round area (1.5 m in diameter) with several patches of charcoal | Birch  Birch  Birch | TRa1895  TRa1896  TRa1897 | 9330±125 bp  9355±120 bp  8995±85 bp | Grydeland & Arntzen, 2014 |
| 12 | Tønsnes 8A  A14478\* | Charcoal from stone-packing, 1.5 × 0.5 m, in centre of structure. Stone size 10–50 cm, only a few fire-cracked | Birch, willow  Birch | WK33318  WK33319 | 9530±30 bp  7533±30 bp | Gjerde & Hole, 2013 |
| 12 | Tønsnes 8A  A14503\* | Scattered charcoal | Blue/crowberry  Willow | WK33316  WK33317 | 9340±32 bp  9589±34 bp | Gjerde & Hole 2013 |
| 12 | Tønsnes 10  Felt II\* | Cleared surface with a concentration of a few fire-cracked stones and a little charcoal | Deciduous | WK35630 | 8155±35 bp | Gjerde & Hole, 2013; Hood & Kjellman, n.d. |
| 12 | Tønsnes 10  A15536\* | At least 12 different partly overlapping thin charcoal lenses separated by lenses of sand. Some fire-cracked stones on the outside of the wall | Birch, willow, and aspen in all samples | Wk33343  Wk33340  Wk33341  Wk33345  Wk33342  Wk33344  Wk33339 | 8067±43 bp  8009±33 bp  7994±37 bp  7968±34 bp  7966±36 bp  7900±25 bp  7142±32 bp | Gjerde & Hole, 2013; Gjerde & Skandfer, 2018 |
| 12 | Tønsnes 104380  House 1\* | Small patches of charcoal centrally on floor area. Several concentrations of charcoal and burnt sand in outside midden area. Very few and small fire-cracked stones | Birch  Birch  Birch  Birch  Birch  Birch  Birch  Birch  Birch | Wk24639  Wk24642  Wk24641  Wk24637  Wk24638  Wk24636  Wk24650  Wk24651  Wk24635 | 8001±30 bp  7963±30 bp  7962±30 bp  7929±30 bp  7898±30 bp  7933±30 bp  7913±30 bp  7896±30 bp  7017±30 bp | Skandfer, 2010;  Gjerde & Skandfer, 2018 |
| 12 | Tønsnes 104380  House 2\* | Scattered charcoal on floor area. Charcoal patches in wall | Birch  Birch  Birch  Birch  Birch | Wk24647  Wk24644  Wk24646  Wk24645  Wk24649 | 7838±30 bp  7858±30 bp  7933±30 bp  7877±30 bp  7896±30 bp | Skandfer, 2010; Gjerde & Skandfer, 2018 |
| 12 | Tønsnes 104380  House 3\* | Small amounts of scattered charcoal in floor area, more charcoal outside. One ± circular pit outside house 1.85 m in diameter, with several small concentrations of charcoal | Birch  Birch  Birch  Birch  Birch | Wk26706  Wk26707  Wk26708  Wk26709  Wk26710 | 7919±19 bp  7946±39 bp  7854±54 bp  7847±34 bp  7940±34 bp | Skandfer, 2010;  Gjerde & Skandfer, 2018 |
| 12 | Tønsnes 104342\* | Scattered charcoal on floor and in walls | Birch  Birch  Birch  Birch  Birch | Wk24630  Wk24631  Wk24582  Wk24583  Wk24584 | 7928±30 bp  7801±30 bp  7796±30 bp  7915±30 bp  7868±30 bp | Skandfer, 2010;  Gjerde & Skandfer, 2018 |
| 13 | Evjen 3 | Pit with charcoal | Birch | T7083 | 9580±90 bp | Hauglid, 1993 |
| 14 | Kvefsnhaugen | Lens of charcoal and soot | Willow, birch, aspen | TUa4708 | 9177±77 bp | Breivik, 2009;  Berglund, 2006 |
| 15 | Mohalsen I 1974  Mohalsen I 2012–13 | Several charcoal concentrations  Fireplace consisting of small rocks in a layer of soot and charcoal (layer 9)  Depression of 1.2 m in diameter with dark sooty fill (layer 10) | Willow & oak  Willow | T1807  Ua46947 | 9350±270 bp  9481±68 bp | Alterskjær, 1985; Berglund, 2006; Lorentzen, n.d. a & b; Spjelkavik, 2016 |
| 15 | Mohalsen II\* | Hearth 1: 1 × 1 m concentration of potato-sized pebbles (79 in total) in one layer, many fire-cracked (33). The pebbles were found with patches of sooty soil and scattered charcoal.  Hearth 2: one layer of pebbles with sooty soil and scattered charcoal | Unspecified charcoal fragments  Unspecified charcoal fragments | Beta335452  Beta335453 | 9050±40 bp  9540±40 bp | Bjerck et al., 2016; Fretheim et al., 2018 |
| 16 | Åsgården 1\* | Burnt flint and scattered charcoal in 20–30 cm thick gravel layer on floor suggesting several fire events in slightly different places | Unspecified charcoal | T7790 | 8330±90 bp | Bjerck, 1989, 1990 |
| 17 | Middagskarheia 1\* | Distinct fireplace in the form of marked charcoal concentration found in centre of house | Unspecified charcoal | T7789 | 8490±130 bp | Bjerck, 1989, 1990 |

***Table S2.*** *Sites from central, western, and southern Norway with radiocarbon dates from structures and/or lithic concentrations typologically dated to the Early Holocene. All dates uncal bp.*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Site name** | **Pyrotechnological evidence** | **Fuel** | **Lab. no.** | **Radiocarbon date uncal bp** | **Reference** |
| 18 | Kvernbergmyra | K1: Oval, 0.55 × 0.8 m concentration of flat stones, fine-grained sand and charcoal | Unspecified charcoal | TUa6947  TUa6948 | 9395±50 bp  9320±55 bp | Breivik & Bjerck, 2018 |
| 19 | Kvernberget site 1 | S2: 0.65 m concentration of stones. The sandy fill contained several thin layers of charcoal with a thicker layer of soot and charcoal at the base | Unspecified charcoal | TUa7147 | 9220±55 bp | Breivik & Bjerck, 2018 |
| 20 | Nyhamna 48 | At least 13 often irregular concentrations of beach stones and a little gravel in a matrix of sand mixed with charcoal. Occasional hints of shallow depressions, but mostly placed on surface. Many stones appear scorched, but few fire-cracked | Birch, buckthorn, rowan, pine | Various | 18 dates from 12 structures, ranging from 9695 to 8700 bp | Bjerck, 2008a |
| 20 | Nyhamna 72 | Unit X/S1: a marked concentration, 0.7 × 0.4 m, of charcoal in sand and gravel, surrounded by scattered larger stones, covered by a stone packing.  Eight clear kerbstones around an area 110 × 90 cm with remains of charcoal and loosely packed fire cracked stones that stand out from the surrounding hard-packed floor. Within this area, a 48 × 50 cm concentration of charcoal.  Unit Y/S2: oval, 1.2 × 0.7 m layer of sand and gravel mixed with fragments of charcoal and charcoal dust | Birch, hazel, pine  Birch, hazel, pine  Birch, hazel | T17001  T17002  TUa4589 | 9485±110 bp  9480±125 bp  9380±70 bp | Bjerck, 2008b: 440  Same feature described by Åstveit, 2009: 415  Bjerck, 2008b |
| 20 | Nyhamna 76 and 76b | 76, S1: oval depression with scattered stones and charcoal  76, S2: oval concentration of medium sized stones in sooty sand with charcoal  76b: 8–10 medium sized stones in sooty sand with charcoal | Willow, birch, aspen  Willow, aspen  Birch | TUa4429  TUa4428  TUa4851 | 9440±70 bp  9155±65 bp  9415±65 bp | Bjerck, 2008c;  Breivik & Bjerck, 2018 |
| 21 | Reinsvatnet lok.1 (upland) | Layer of sooty sediment and charcoal within a 0.30 × 0.5 m depression | Birch | TUa6248 | 9495±65 bp | Breivik & Bjerck, 2018; Callanan, 2006;  Callanan *pers.com*. |
| 22 | Langfjelldal (upland) | A 60 cm diameter concentration of scorched stones with soot and small amounts of charcoal at entrance to a shelter | Birch | Beta331963 | 9010±40 bp | Ramstad, 2014 and in prep.;  Ramstad & Linge, 2015 |
| 23 | Kotedalen  Phase 1 | MS 62: Shallow pit 1/30 m in diameter and 20 cm deep with charcoal and 40 l of scorched stones | Willow | T7511 | 8980±80 bp | Olsen, 1992; Åstveit, 2018 |
| 24 | Myrvatn (upland) | Site D: 4 round/oval concentrations, *c.* 1–1.3 m in diameter, of sooty soil with tiny charcoal flecks. On surface, no stone lining.  Myrvatn id.162260: circular, 0.8 m wide concentration of stones and charcoal.  Myrvatn id.162261: circular, 1 m wide concentration of fist-sized, fire-cracked or red-burnt stones with fragments of charcoal. Larger stones on the perimeter? | Willow, birch  Willow, birch  Deciduous | T8295  T7141  T8294  T8293  T8296  T9046  Beta339699 | 9610±90 bp  9570±70 bp  9460±80 bp  9440±50 bp  9420±80 bp  8565±60 bp  8520±50 bp | Bang-Andersen, 1990, 2003, 2015, 2018 |
| 25 | Fløyrlivatn (upland) | Fløyrlivatn 6B: circular, 70 cm wide, stone-lined feature inside tent-ring.  Fløyrlivatn 7: 20–30 cm wide scatter of charcoal | Willow, birch  Willow  Birch, willow  Oak  Birch, willow | Beta141301  Beta141300  Beta141289  Beta141294  Beta141293 | 9750±80 bp  9460±70 bp  9360±80 bp  9400±70 bp  9360±80 bp | Bang-Andersen, 2003, 2018 |
| 26 | Hegna Vest 3  A11620 | Circular 60 cm concentration of fire-cracked rocks, possibly over a slight depression in which a layer of sand mixed with soot and charcoal | Willow, aspen | Ua51471 | 8679±39 bp | Eigeland & Fossum, 2017 |
| 27 | Hovland 1  S4 | 20–30 cm deep pit, 1.3 × 0.7 m, dark silt with charcoal and some fire-cracked stones | Hazel  Willow, aspen | Tra3410  Ua45675 | 8465±55 bp  8623±50 bp | Olsen, 2013 |
| 27 | Hovland 3 | Charcoal in possible postholes, concentrations of fire-cracked stones and charcoal in shallow pits outside dwelling | Birch, rowan |  | 18 dates ranging from 8609±54 bp to 8291±48 bp | Solheim & Olsen, 2013 |
| 27 | Hovland 4  S1 | Dense stone-packing of fire-cracked stones placed on surface | Birch | Ua45494 | 8526±52 bp | Mansrud, 2013 |
| 27 | Hovland 4  S6 | 20 cm deep and quite wide pit with many fire-cracked stones | Birch | Ua45493 | 8568±51 bp | Mansrud, 2013 |
| 28 | Rødbøl 54  S20013 | Irregular concentration of scorched stones with small amounts of charcoal, possibly located in shallow depression | Hazelnut | Tua5558 | 8630±45 bp | Mansrud, 2008 |
| 29 | Knubba (inland) | Cooking pit 1.8–1.3 m in diameter, 20 cm deep, filled with charcoal-mixed sand and gravel and many fire-cracked stones (270 kg/222 l) | Pine | T18132  T18133  Beta216497 | 8595±120 bp  8545±125 bp  8780±80 bp | Amundsen, 2007 |

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