

RHODESIAN RADIOCARBON MEASUREMENTS V

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The following list of dates was compiled since 1971, (R., 1971, v. 13, p. 420-431). Procedures of measurements are essentially unchanged from those reported previously (R., 1964, v. 6, p. 31-36; 1966, v. 8, p. 423-429; 1971, v. 13, p. 420-431).

SAMPLE DESCRIPTIONS

I. ARCHAEOLOGIC SAMPLES

A. Malawi

SR-221. Kapeni Hill, Nyanyangu River **715 ± 75**
A.D. 1235

Charcoal from 15 to 30cm depth, assoc. with a collapsed pole and daga wall (14° 38' S Lat, 34° 44' E Long). Coll. and subm. by K. R. Robinson, P.O. Box 170, Bulawayo, Rhodesia. *Comment:* Kapeni ware expected in time to be between Nkope and Mawudzu. Typologically appears to be a later phase of the Mwavarambo/Phopo tradition. See Robinson (1970).

SR-231. Kapeni Hill, Nyanyangu River **780 ± 65**
A.D. 1170

Charcoal from open site on river bank. Coll. and subm. by K. R. Robinson.

SR-223. Luwadzi River **Modern**

Charcoal from ash pocket at depth 30cm in river bank (14° 35' S Lat, 34° 40' E Long). Coll. and subm. by K. R. Robinson. *Comment:* see Robinson (1970).

Matope Court series

Matope Court is on S bank of upper Shire R. a few km upstream from Murchison Rapids (15° 22' S Lat, 34° 56' E Long); formerly traditional court of Chief Chigaru. Four test pits were dug on river bank; many signs are present of Early and Later Iron age occupation.

General Comment (K.R.R.): Matope Court excavations confirm a pottery sequence consistent with that of Nkope Bay, with additional Kapeni ware between Nkope and Mawudzu wares. More recent work on the lower Shire appears to confirm this sequence for Malawi as a whole.

SR-235. Matope Court **960 ± 60**
A.D. 990
Charcoal, 10 to 20cm level.

- 905 ± 80**
- SR-230. Matope Court** **A.D. 1045**
Charcoal from open site on S bank of upper Shire, 20 to 30cm level, assoc. with Kapeni ware.
- 625 ± 80**
- SR-232. Matope Court** **A.D. 1325**
Charcoal from 30 to 40cm level, assoc. with Kapeni ware.
- 820 ± 80**
- SR-236. Matope Court** **A.D. 1130**
Charcoal from 40 to 50cm level. *Comment:* although SR-235, -230, -232, and -236 are not in chronologic order they do date Kapeni ware at the court. Inversions are difficult to explain but may be from some disturbance.
- 1170 ± 80**
- SR-237. Matope Court** **A.D. 780**
Charcoal from 50 to 60cm level. *Comment:* result is acceptable for Nkope ware; a similar date came from Nkope Bay (SR-175: R., 1971, v. 13, p. 420).
- Modern**
- SR-238. Matope Court**
Charcoal from 70 to 80cm level. *Comment:* result may be taken as proof of very recent date for beginning of occupation represented by Nkudzi ware. Date seems quite satisfactory.
- 605 ± 80**
- SR-239. Matope Court** **A.D. 1345**
Charcoal from 100 to 110cm level. *Comment:* date unacceptable for Nkope ware but undetected disturbance may have occurred.
- 390 ± 80**
- SR-233. Mitongwe Stream** **A.D. 1560**
Charcoal from 30cm depth. Coll. and subm. by K. R. Robinson.
- 1580 ± 60**
- SR-209. Mitongwe/Luwadzi Confluence** **A.D. 370**
Carbon from Iron age site in S lake area of Malawi (14° 35' S Lat, 34° 40' E Long). Coll. and subm. by K. R. Robinson. *Comment:* see Robinson (1970).
- 1730 ± 90**
- SR-226. Mitongwe/Luwadzi Confluence** **A.D. 220**
Charcoal in compacted light brown earth with bone fragments at depth 122cm. Coll. and subm. by K. R. Robinson. *Comment:* see Robinson (1970).

SR-220. Nkhombwe Hill **575 ± 75**
A.D. 1375

Carbon from gritty granitic brown earth at 10 to 20cm depth, assoc. with Early Iron age pottery (14° 36' S Lat, 34° 01' E Long). Coll. and subm. by K. R. Robinson. *Comment*: see Robinson (1970).

SR-242. Thima, Namisimba Stream **955 ± 60**
A.D. 995

Charcoal from 30 to 40cm below surface midden earth (15° 22' S Lat, 34° 55' E Long). Coll. and subm. by K. R. Robinson. *Comment*: date is later than usual for Nkope ware, but possible.

B. Portuguese East Africa

SR-222. Sofala **Modern**

Carbon from Sofala on Mozambique coast. Coll. and subm. by R. Dickinson, College tutor, Univ. Rhodesia, Salisbury, Rhodesia.

C. Rhodesia

Chamabvepfa series

Charcoal from Khami ruin near Shabani (20° 13' S Lat, 30° 04' E Long). Coll. and subm. by T. N. Huffman, Natl. Monuments Comm., Salisbury, Rhodesia.

SR-246. Chamabvepfa **Modern**

Charcoal from upper floor, Hut 1.

SR-247. Chamabvepfa **Modern**

Charcoal post from lower level floor, Hut 1. *Comment*: result unacceptable to submitter; sample sent to J. C. Vogel, Natl. Phys. Research Lab., Pretoria, South Africa for a check date. Pretoria result was 250 ± 50 B.P., A.D. 1700.

SR-249. Chamabvepfa **Modern**

Charcoal post from beneath wall. *Comment*: SR-246, -247, and -249 date Transitional Zimbabwe/Khami phase pottery of Ruins tradition (Huffman, 1971b).

SR-244. Duncombe Farm Shelter **2420 ± 60**
470 B.C.

Charcoal from 28 to 35cm level (17° 23' S Lat, 30° 55' E Long). Coll. and subm. by C. K. Cooke, Dir., Hist. Monuments Comm., Bulawayo, Rhodesia. *Comment*: date compares favorably with those from other sites of Wilton industrial complex for Rhodesia; also from Duncombe Farm Shelter.

SR-243. Duncombe Farm Shelter **18,970 ± 275**
17,020 B.C.

Charcoal from 127 to 135cm level, above rock fall in shelter. Coll. and subm. by C. K. Cooke. *Comment* (C.K.C.): reasonable date for Tshangula (Magosian) industry.

- 660 ± 115**
- SR-169. Felixburg, Midlands** **A.D. 1290**
 Charcoal found while cleaning sec. of a pit dug by a farmer. Sample 168 to 183cm below ground, assoc. with Gokomere type pottery; Gokomere is 56km due N of site (19° 55' S Lat, 30° 45' E Long). Coll. and subm. by P. S. Garlake, Inst. African Studies, Univ. Ife, Nigeria.
- 460 ± 120**
- SR-125. Garamwe Farm, Gadzema** **A.D. 1490**
 Charcoal from burial assoc. with Middle Zimbabwe 2 (Harare) pottery (18° 8' S Lat, 30° 90' E Long). Coll. by Mrs. E. Goodall, Queen Victoria Mus., Salisbury, Rhodesia and subm. by R. Summers, Natl. Mus., Bulawayo, Rhodesia.
- 920 ± 50**
- SR-245. Lanlory Farm near Karoi** **A.D. 1030**
 Charcoal from hut posts from Early Iron age village on a farm near Karoi (16° 45' S Lat, 29° 28' E Long). Coll. and subm. by T. N. Huffman. *Comment:* sample dates Sinoia tradition pottery (Robinson, 1966; Huffman, 1971a) of later phase than at Sinoia Caves. Sample was check-dated by J. C. Vogel at 1130 ± 50, A.D. 820.
- 770 ± 55**
- SR-248. Lanlory Farm near Karoi** **A.D. 1180**
 Charcoal posts from hut. Coll. and subm. by T. N. Huffman. *Comment:* see SR-245.
- Lekkerwater Ruins series, Theydon**
- 370 ± 92**
- SR-182. Lekkerwater Ruins** **A.D. 1580**
 Charcoal from midden (18° 05' S Lat, 31° 42' E Long). Coll. and subm. by S. Rudd, 7 Barons Court, Greendale, Salisbury, Rhodesia. *Comment:* assoc. with pottery resembling Classes 3 and 4 at Zimbabwe (see Rudd, 1968, and R., 1971, v. 13, p. 423).
- 365 ± 105**
- SR-184. Lekkerwater Ruins** **A.D. 1585**
 Charcoal from base of hut. *Comment:* sample was dated as check on SR-109: R., 1971, v. 13, p. 423.
- 1040 ± 90**
- SR-170. Lekkerwater Ruins** **A.D. 910**
 Charcoal from ruins of a hut.
- 3210 ± 95**
- SR-183. Lekkerwater Ruins** **1260 B.C.**
 Charcoal from floor sealed by a paving stone. *Comment:* this B.C. date is unexplained; it bears no relation to any known deposit on site.
- Leopard's Kopje Main Kraal series**
 Samples from a Leopard's Kopje type site (20° 08' S Lat, 28° 25' E Long), 24km NW of Bulawayo. Coll. and subm. by T. N. Huffman.

- 235 ± 60**
- SR-210. Leopard's Kopje Main Kraal** **A.D. 1715**
Charred posts from small structure, possibly a grain bin. *Comment:* result agrees with N-773 (1825 ± 100).
- 950 ± 50**
- SR-216. Leopard's Kopje Main Kraal** **A.D. 1000**
Charcoal from rubble of House 8 at Level 4, Mambo phase.
- 880 ± 65**
- SR-217. Leopard's Kopje Main Kraal** **A.D. 1070**
Charcoal from area containing Leopard's Kopje II pottery and figurines at Level 4, Mambo phase.
- 880 ± 80**
- SR-218. Leopard's Kopje Main Kraal** **A.D. 1070**
Charcoal posts from plastered area of Leopard's Kopje village at Level 4, Mambo phase.
- 540 ± 75**
- SR-219. Leopard's Kopje Main Kraal** **A.D. 1410**
Charcoal from posts in House 8, Level 4, Mambo phase. *Comment:* does not agree with other dates from same level.
- 1105 ± 85**
- SR-224. Leopard's Kropje Main Kraal** **A.D. 845**
Charcoal from bottom half of storage pit containing Leopard's Kopje II pottery and figurines. Pit is contemporary with Leopard's Kopje II village horizon.
- 1280 ± 90**
- SR-225. Leopard's Kopje Main Kraal** **A.D. 670**
Charcoal from pit containing exclusively Zhizo material Leopard's Kopje I and belongs to cultural Level 5; agrees with I-4862 (820 ± 95).
- SR-240. Leopard's Kopje Main Kraal** **Modern**
Charcoal from refuge phase.
- 385 ± 80**
- SR-227. Mukwichi River, Urungwe** **A.D. 1565**
Iron age site on the Mukwichi R. (16° 32' S Lat, 29° 37' E Long). Charcoal fragments from single horizon of small settlement at depth 18 to 28cm below present ground. Coll. and subm. by P. S. Garlake. *Comment* (P.S.G.): assoc. pottery is distinctive, known only from 1 other site; was not *in situ* in sealed deposits or dated, see Garlake (1971).
- SR-171. Murahwa Hill, Umtali** **Modern**
Charcoal from bottom floor (18° 59' S Lat, 32° 41' E Long). Coll. and subm. by F. O. Bernhard, 127, Third Street, Umtali. *Comment:* it was hoped sample would be from Iron age site similar to Khami.

Nhunguza Ruin series, Bindura

A stone-walled enclosure with masonry similar to that of Zimbabwe Ruins with comparable artifacts (17° 22' S Lat, 31° 14' E Long). Excavation revealed hut remains and deposits of a single occupation contemporary with stone walls. Coll. and subm. by P. S. Garlake.

120 ± 50

SR-213. Nhunguza Ruins, Bindura **A.D. 1830**

Sample from carbonized stump of structural timber post set in floor of a hut.

180 ± 75

SR-214. Nhunguza Ruin, Bindura **A.D. 1780**

Charcoal fragment from original occupation horizon at foot of a stone wall.

SR-215. Nhunguza Ruin, Bindura **Modern**

Charcoal fragments from original occupation horizon just outside and running below floor of hut.

SR-229. Nhunguza Ruin, Bindura **Modern**

Charcoal. *Comment:* dates should be approx. contemporary and were estimated to lie in 14 to 15th centuries A.D. They may be compared with N-1145 (A.D. 1580 ± 100) obtained from carbonized stump of a structural timber post in floor of main hut adjacent to that of SR-213; see Garlake (1972).

6900 ± 220

SR-172. Redcliff **4950 B.C.**

Burnt bone from top of bone concentration containing Bambata industry (18° 54' S Lat, 29° 45' E Long). Coll. and subm. by C. K. Cooke. *Comment:* sample was diluted with blank and counted as an experiment. Result does not agree with much older dates obtained by Isotopes.

85 ± 80

SR-228. Ruanga Ruin **A.D. 1865**

A stone-walled enclosure with masonry similar to that of Zimbabwe Ruins comparable artifacts (17° 01' S Lat, 31° 40' E Long). Charcoal fragments in gray-brown loam. Coll. and subm. by P. S. Garlake. *Comment:* enclosure was estimated to lie in 14 to 15th centuries A.D., and may be compared with N-1146 (A.D. 1500 ± 85); see Garlake (1972).

Zombepata Cave series

Zombepata cave in Sipolilo Dist. was excavated by C. K. Cooke for Hist. Monuments Comm. Rhodesia (16° 49' S Lat, 30° 48' E Long).

2110 ± 50

SR-185. Zombepata Cave **160 B.C.**

Charcoal from 15 to 23cm level. *Comment:* this date given for Wilton layer in cave appears well within range for this cultural phase.

- SR-186. Zombepata Cave** **13,130 ± 90**
11,180 B.C.
Charcoal from 30cm level. *Comment:* result from top of Tshangula industrial layer was younger than expected but may be because of contact with later material above.
- SR-187. Zombepata Cave** **13,990 ± 40**
12,040 B.C.
Charcoal from 47 to 53cm level slightly lower but in same deposit as SR-186.
- SR-188. Zombepata Cave** **21,360 ± 280**
19,410 B.C.
Charcoal from 61 to 69cm level. *Comment:* result shows contact with Bambata and Tshangula cultures and compares well with SR-10. See R., 1964, v. 6, p. 33.
- SR-189. Zombepata Cave** **22,850 ± 170**
20,900 B.C.
Charcoal from 76 to 84cm level. *Comment:* result dates rock fall at cave. See I-3726 for result from similar level at Redcliff which gave date, 25,650 ± 11,800 B.P.
- SR-191. Zombepata Cave** **15,120 ± 170**
13,170 B.C.
Charcoal from 91 to 99cm level. *Comment:* although older than expected date fits into sample sequence for cave. Phase uncertain, possibly Wilton.
- SR-192. Zombepata Cave** **11,650 ± 120**
9700 B.C.
Sample from 10cm below SR-191. *Comment:* no apparent explanation for later date; phase uncertain.
- SR-193. Zombepata Cave** **37,290 ± 1140**
35,340 B.C.
Charcoal from 213 to 221cm level. *Comment:* dated from material from beginning of Bambata phase of Middle Stone age. Possibly contact with Charama SR-9 for similar material gave date, 42,000 ± 2300 B.P.

D. Zambia

Kandanda series, Sesheke Dist.

Site (17° 27' S Lat, 24° 14' E Long) was excavated in 1969 by L. Phillipson, Natl. Monuments Comm., Livingstone, Zambia. Samples coll. from open river bank site and subm. by D. W. Phillipson, Natl. Monuments Comm. *Comment* (D.W.P.): several other pieces of evidence point to very late continuation of Middle Stone age type industries on upper Zambezi.

- 2130 ± 55**
180 B.C.
- SR-198. Kandanda**
Charcoal sample assoc. with Middle Stone age transitional series of artifacts.
- 465 ± 85**
A.D. 1485
- SR-200. Kandanda**
Charcoal from charcoal filled depression assoc. with Late Stone age artifacts and Early Iron age sherds. Sample from 23 to 36cm level. *Comment*: result agrees well with GX-1579, A.D. 1460 ± 90, from same horizon.
- 1835 ± 115**
A.D. 115
- SR-199. Kandanda**
Charcoal from 61 to 86cm level, consisting of fragments scattered throughout layer and assoc. with sparse stone industry.
- 3450 ± 80**
1500 B.C.
- SR-201. Kandanda**
Charcoal from general scatter at 86 to 112cm level, older than SR-200. Sample assoc. with Middle to Late Stone age artifacts.
- 3360 ± 95**
1410 B.C.
- SR-202. Kandanda**
Charcoal from general scatter at 112 to 145cm level.
- 3690 ± 85**
1740 B.C.
- SR-203. Kandanda**
Charcoal from a general scatter at 147 to 155cm level.
- 1070 ± 60**
A.D. 880
- SR-211. Lubusi, Kaoma Dist.**
Charcoal fragments from Early Iron age site (14° 22' S Lat, 23° 49' E Long). Coll. and subm. by D. W. Phillipson. *Comment*: only Early Iron age site so far discovered in NW of Zambia. See Phillipson (1972).
- Makwe Rock Shelter series, Katet Dist.**
Rock shelter (14° 28' S Lat, 31° 56' E Long), excavated 1966 by D. W. Phillipson. *Comment* (D.W.P.): rock shelter contains a rich Late Stone age industry, now securely dated to 3rd and 4th millennia B.C. Early Iron age also is represented in shelter.
- 5010 ± 90**
3060 B.C.
- SR-204. Makwe Rock Shelter**
Charcoal fragments.
- 4580 ± 95**
2630 B.C.
- SR-205. Makwe Rock Shelter**
Charcoal. *Comment*: expected date later than SR-204.
- 970 ± 70**
A.D. 980
- SR-206. Makwe Rock Shelter**
Charcoal. *Comment*: expected date; 1st millennium A.D.

- SR-207. Makwe Rock Shelter** **1200 ± 80**
A.D. 750
 Charcoal. *Comment:* expected date between A.D. 800 and 1500.
- SR-208. Makwe Rock Shelter** **4985 ± 100**
3035 B.C.
 Charcoal. *Comment:* expected date later than SR-205.
- SR-212. Makwe Rock Shelter** **Modern**
 Charcoal.

REFERENCES

- Garlake, P. S., 1971, An iron age site on the Mukwichi river, Urungwe: S. African Archaeol. Bull. 26, v. 103, p. 147-152.
- 1972, Excavations at the Nhunguza and Ruanga Ruins in N. Mashonaland: S. African Archaeol. Bull. 27, v. 105 (in press).
- Huffman, T. N., 1971a, A guide to the iron age of Mashonaland: Natl. Mus. Rhodesia, Occ. papers 4a, v. 1, p. 20-44.
- 1971b, Iron age archaeol. in Runde: 21st expedition Rhodesian Schools Exploration Soc. (Matebeleland Branch) p. 38-45.
- Phillipson, D. W., 1972, An early iron age site on the Lubusi river, Kaoma dist., Zambia: Zambia Mus. Jour. II (in press).
- Robinson, K. R., 1966, The Sinoia Caves, Lomagundi dist., S. Rhodesia: Rhodesian Sci. Assoc. Proc. and Trans., v. 51, p. 131-155.
- 1970, The iron age of the S. lake area of Malawi: Dept. Antiquities Malawi Gov. Pub. No. 8.
- Rudd, S., 1968, Preliminary report of excavations 1963-66 at Lekkerwater Ruins, Tsindi Hill, Theydon, Rhodesia: Rhodesian Sci. Assoc. Proc. and Trans, v. 52, pt. 2, p. 38-50.