

**RADIOCARBON, LTD.
NATURAL RADIOCARBON MEASUREMENTS I**

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Radiocarbon, Ltd. is a privately owned laboratory designed to provide quality service to the archaeologic and geologic communities. Operations began in 1969 using standard techniques for preparation, conversion to CO₂, and purification of samples prior to counting. A sample is counted as CO₂ in each of two identical proportional counters of volume 2.2 L, built on the design of Östlund and Engstrand (1963); each counter has its own multi-anode guard ring, and is housed in a common shield of iron 8 in. thick.

CO₂ from anthracite is used to monitor the background count rate, and the NBS oxalic acid standard is used (0.95 A_{ox}) as the contemporary count rate reference. Statistical counting variations are quoted to one sigma standard deviation, and the radiocarbon age is based on the C¹⁴ half-life of 5570 ± 30 yr.

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SAMPLE DESCRIPTIONS

I. ARCHAEOLOGIC SAMPLES

A. Western United States

Lincoln County (Site 26LN126) series, Nevada

Charcoal and charred wood samples from Site 26LN126 (37° 30' N Lat, 114° 30' W Long), 5 mi S of Caliente, Nevada. Coll. 1969 and subm. by D. D. Fowler, Desert Research Inst., Univ. of Nevada, Reno.

RL-36. 26LN126, FS-6

230 ± 100

A.D. 1720

Charcoal from hearth in Level I, depth 50 cm. *Comment* (D.D.F.): stratum from which sample was taken contained Shoshonean ceramics and Desert Side-Notched points.

RL-37. 26LN126, FS-64

1050 ± 100

A.D. 900

Charred wood from hearth in Level II, depth 1.35 m. *Comment* (D.D.F.): sample assoc. with Fremont ceramics.

- RL-38. 26LN126, FS-91** **940 ± 100**
A.D. 1010
Charcoal from hearth area in Level III, depth 2.5 m. *Comment* (D.D.F.): sample assoc. with Fremont ceramics.
- RL-39. 26LN126, FS-155** **2050 ± 110**
100 B.C.
Charcoal from hearth area in Level IV, depth 3.0 m. *Comment* (D.D.F.): sample assoc. with late Desert Archaic points.
- RL-40. 26LN126, FS-154** **2090 ± 100**
140 B.C.
Charcoal from hearth area in Level V, depth 3.5 m. *Comment* (D.D.F.): sample assoc. with Elko series Desert Archaic point types.
- RL-41. 26LN126, FS-163** **1980 ± 110**
30 B.C.
Charcoal from hearth area in Level V, depth 3.5 m. *Comment* same comment as for RL-40, for which this sample appears to be a duplicate.
- RL-47. Lincoln County (Site 26LN407), Nevada** **970 ± 120**
A.D. 980
Charcoal from midden deposit, depth 70 cm, at Site 26LN407 (37° 34' N Lat, 114° 33' W Long), 22 mi ENE of Caliente, Nevada (Sample FS-57). Coll. 1969 and subm. by D. D. Fowler. *Comment* (D.D.F.): sample from open site at 7000 ft elev. assoc. with Fremont ceramics.

B. Eastern United States

- RL-32. Bluffton-1, Florida** **3660 ± 110**
1710 B.C.
Celt (*strombus gigas*) (made from lip of shell) from Bluffton site on St. Johns R., Florida (20° 5' 0" N Lat, 81° 30' 2" W Long), in bottom of fiber-tempered ceramic zone in 14 ft sec. Coll. 1955 and subm. by R. P. Bullen, Florida State Mus., Gainesville. *Comment* (R.P.B.): should date beginning of plain fiber-tempered ceramic period of Florida, earliest phase of the Orange period. Date is earliest demonstrably assoc. ceramic date for Florida (Bullen, 1958).

C. West Indies

- RL-26. Lavoutte-1, St. Lucia** **710 ± 100**
A.D. 1240
Shell (*strombus gigas*) from shore of Anse Lavoutte at extreme NE side of St. Lucia, Windward Is. (Lesser Antilles) (14° 24' 0" N Lat, 60° 55' 30" W Long), in buried Amerindian shell midden ca. 8 in. thick. Coll. 1968 and subm. by R. P. Bullen. *Comment* (R.P.B.): dates Suazey ceramic complex and Cap Estate figurine; Suazey is latest known pre-Columbian complex of Lesser Antilles (Bullen and Bullen, 1970).

RL-27. Banana Bay-1, Baliceaux Island **720 ± 100**
A.D. 1230

Shell (*strombus gigas*) from Banana Bay on W side of Baliceaux I., Grenadines (Lesser Antilles) (12° 57' 0" N Lat, 61° 9' 10" W Long), in buried Amerindian midden, 8 to 10 in. thick. Coll. 1969 and subm. by R. P. Bullen. *Comment* (R.P.B.): dates Suazey ceramic complex, proves midden not that of Black Caribs coll. at Baliceaux by British in 1797 before they were taken to Honduras; checks RL-26 with similar ceramic complex.

RL-28. Kingstown Post Office-1, St. Vincent **1790 ± 100**
A.D. 160

Shell (*strombus gigas*) from behind Kingstown post office on St. Vincent, Windward Is. (Lesser Antilles) (13° 9' 10" N Lat, 61° 13' 35" W Long), in midden deposit buried by volcanic ash, assoc. with Saladoid-like pottery. Coll. 1969 by Earle Kirby, Dept. of Agric., St. Vincent and subm. by R. P. Bullen. *Comment* (R.P.B.): dates early phase of Lesser Antillean Modified Saladoid period. As this is not the earliest ceramic complex, it implies pottery was introduced into Lesser Antilles well before instead of ca. time of Christ.

RL-29. Sabazan-1, Carriacou Island **940 ± 100**
A.D. 1010

Charcoal from Sabazan Amerindian site at extreme E end of Great Breteche Bay (E of Breteche) on S shore of Carriacou I., Grenadines (Lesser Antilles) (12° 28' 0" N Lat, 61° 26' 20" W Long), in higher level of a 3 to 4 ft thick stratigraphic sec. exposed by ocean erosion. Coll. 1969 and subm. by R. P. Bullen. *Comment* (R.P.B.): dates Terminal Saladoid pottery of Lesser Antilles; is a pre-Suazey complex date but may apply to Calviny complex intermediate between Terminal Saladoid (of the Lesser Antilles) and Suazey complexes.

General Comment (R.P.B.): data regarding RL-27-29 will be published in Wm. L. Bryant Foundation, Am. Studies, no. 8 (ms. in preparation).

Giraudy series, St. Lucia

Shells from Giraudy site at N side of Beane Field in S St. Lucia, Windward Is. (Lesser Antilles) (13° 44' 0" N Lat, 60° 56' 30" W Long). Coll. 1969 by A. K. Bullen and R. P. Bullen, Florida State Mus., and Eric Branford, St. Lucia Archaeol. and Hist. Soc.; subm. by R. P. Bullen.

RL-30. Giraudy-1 **1240 ± 100**
A.D. 710

Shell (*strombus gigas*) from disturbed upper zone of deposit, Trench 1. *Comment* (R.P.B.): in disturbed zone so that cultural identification not demonstrable, but it obviously applies to earlier phase at site, *i.e.*, pre-Suazey complex. See RL-31.

RL-31. Giraudy-2

1120 ± 110

A.D. 830

Shell (*strombus costatus*) from lower undisturbed part of deposit, Trench 1. *Comment* (R.P.B.): dates earlier occupation of site with a late Modified Saladoid or early Terminal Saladoid ceramic inventory. Is comfortably 100 yr earlier than RL-30 which was from a higher zone of the same trench.

REFERENCES

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