# UNIVERSITY OF GEORGIA RADIOCARBON DATES II

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The following list of dates is compiled from samples prepared since publication of our last date list (R., 1971, v. 13, p. 468-474). The counting equipment and operating procedures are the same. Ages are quoted with a  $1\sigma$  counting error which includes statistical variation of the sample count as well as for the background and standard, using A.D. 1950 as the reference year and 0.95% NBS oxalic acid for  $C^{14}$  dating as the standard. The half-life value used is 5570 years.

Sample descriptions were prepared in collaboration with collectors and submitters.

#### ACKNOWLEDGMENTS

The support of the General Research Department of the University of Georgia is gratefully acknowledged. Donald F. Smith has prepared many of the samples described in this list.

#### SAMPLE DESCRIPTIONS

#### I. GEOLOGIC SAMPLES

#### A. Georgia

The following samples are from cores in the low-lying marshlands around Sapelo I., Georgia. They are part of a study, including pollen analysis, being made by Joyce Swanberg. After removal from cores, sediments were wrapped in polyethylene and brought to the lab where the outer surfaces were cut away. Samples were then dried and burned, so the date is a composite of total combustible carbon.

Core 5ABBS from salt marsh between Blackbeard and Sapelo Is. on W side of Blackbeard Creek (31° 31′ 5″ N Lat, 81° 13′ 10″ W Long).

UGa-195. 81 to 89 cm	$1550 \pm 80$ A.D. $400$
UGa-91. 152 to 164 cm	2090 ± 500 140 в.с.
UGa-133. 479 to 493 cm	$3445 \pm 140$ 1495 B.C.
Core 5BBS, 100 m S of 5ABBS.  UGa-188. 151 to 161 cm	$1550 \pm 80$ a.d. $400$
UGa-187. 242 to 253 cm	$1110 \pm 70$ A.D. $840$
UGa-207. 336 to 352 cm	$1140 \pm 100$ a.d. $810$

=	20,	
UGa-127. 353 to 362 cm	$1130 \pm 105$	
	A.D. 820	
Core 4BBS from salt marsh between Blackbeard an W side of Blackbeard Creek (31° 30′ 45″ N Lat, 8° 13′		
	$1380 \pm 95$	
UGa-216. 173 to 180 cm	A.D. 570	
UGa-138. 226 to 270 cm	$460 \pm 130$ A.D. $1490$	
UGa-171. 315 to 320 cm	$1040 \pm 100$ A.D. $910$	
	$1040 \pm 90$	
UGa-209. 384 to 391 cm	a.d. 910	
	$1040 \pm 100$	
UGa-169. 425 to 432 cm	a.d. 910	
	$1215 \pm 100$	
UGa-137. 445 to 453 cm	A.D. 735	
	$730 \pm 100$	
UGa-106. 514 to 521 cm	а.д. 1220	
Core 9BBS, SW of Lookout Tower of Blackbeard	Island Refuge	
(31° 29′ 0″ N Lat, 81° 13″ 0″ W Long).	_	
110, 104, 188, 104	$2220 \pm 100$	
UGa-184. 155 to 164 cm	270 в.с.	
VIC. 188 001	$2180 \pm 110$	
UGa-177. 291 to 302 cm	230 в.с.	
	$2440 \pm 330$	
UGa-126. 454 to 468 cm	490 в.с.	
Core 2ATCS salt marsh between Old Teakettle Creek and New Teakettle Creek, Sapelo I. (31° 28′ 0″ N Lat, 81° 18′ 20″ W Long).		
	$820 \pm 95$	
UGa-155. 80 to 90 cm	A.D. 1130	
	$3300 \pm 125$	
UGa-154. 138 to 147 cm	1350 в.с.	
	$4450 \pm 190$	
UGa-160. 349 to 356 cm	2500 в.с.	
	$4350 \pm 135$	
UGa-202. 400 to 414 cm	1330 <u>—</u> 133 2400 в.с.	
	$3900 \pm 170$	
UGa-121. 421 to 430 cm	1950 в.с.	
Core 1ATCS, 270 m NW of Jack Hammock between		
Creek and Duplin R. (31° 27′ 50″ N Lat, 81° 17′ 35″ W		

		,	*	
	UGa-189.	116 to 123	cm	$985 \pm 85$ A.D. $965$
	UGa-175.	222 to 230	cm	$920 \pm 80$ A.D. $1030$
	UGa-165.	334 to 342	cm	$1145 \pm 100$ A.D. $805$
	UGa-123.	410 to 419	cm	$850 \pm 100$ A.D. $1100$
Sapo	Core 8POC	C, from salt	marsh between Post Office (81° 17′ 30″ W Long).	Creek and Little
•	`	427 to 435	G.	$3150 \pm 115$ 1200 B.C.
	UGa-194.	567 to 576	cm	$3190 \pm 90$ 1240 B.C.
	UGa-132.	708 to 718	cm	$3115 \pm 115$ 1165 B.C.
	UGa-128.	784 to 798	cm	$3250 \pm 125$ 1300 B.C.
	UGa-117.	Shell 436 cr	m	Modern
81°		S, from salt	marsh near Dark Creek (31	
		0,		$360 \pm 75$
	UGa-153.	62 to 70 cm	n	A.D. 1590
	UGa-162.	142 to 150	cm	$3440 \pm 125$ 1490 B.C.
		178 to 190		$4470 \pm 195$ 2520 B.C.
т			alt marsh between Atwood	Creek and Old
1 ea	ikettle Greek	(31° 28′ 0″	N Lat, 81° 20′ 0″ W Long).	$1270 \pm 85$
	UGa-180.	134 to 143	cm	A.D. $680$
	UGa-178.	252 to 260	cm	$2430 \pm 100$ 480 B.C.
				$2425 \pm 170$
		359 to 368		475 в.с.
	Comment:	depth-age r	relationship of some cores lea	aves much to be

Comment: depth-age relationship of some cores leaves much to be desired; perhaps marsh sediments were reworked more than expected.

The following shell and wood samples from vicinity of Marine Inst., Sapelo I., Georgia, as part of a continuing investigation of the region. Samples coll. and subm. by H. U. Wiedemann, Dept. Geol., Univ. Georgia.

 $1190 \pm 65$ 

# UGa-87. Dark Creek oyster

**A.D.** 760

Shells from top of Holocene soil (31° 27′ 6″ N Lat, 81° 19′ 22″ W Long), from 30 cm deep oyster bed. Valves articulated; hence not reworked.

 $2400 \pm 75$ 

#### UGa-88. Atwood Creek wood

450 в.с.

Wood from tree trunks in submerged early Holocene soil, (31° 28′ 6″ N Lat, 81° 20′ 44″ W Long), depth ca. 30 cm (2 m below surface of present marsh).

 $2450 \pm 75$ 

### UGa-90. Teakettle Creek wood

500 в.с.

Wood from tree trunks in submerged early Holocene soil, depth 50 cm, (31° 27′ 6″ N Lat, 81° 19′ 22″ W Long).

 $1640 \pm 150$ 

# UGa-93. Blackbeard Creek Marsh oyster

A.D. 310

Shell from basal 15 cm of bed 5.5 m below marsh surface (31° 31′ 5″ N Lat, 81° 13′ 10″ W Long). Shells blackened by FeS $_2$  and bored by Clinona.

 $1720 \pm 90$ 

### UGa-95. Blackbeard Creek Marsh oyster

A.D. 230

Articulated shell from 2.8 m below marsh surface. Core near UGa-93 but shells not blackened or bored.

 $1260 \pm 75$ 

# UGa-97. Todd Creek Marsh oyster

A.D. 690

Shell from tidal chenier on marsh surface, (31° 32′ 50″ N Lat, 81° 13′ 16″ W Long).

 $580 \pm 120$ 

# UGa-99. Todd Creek Marsh oyster

а.р. 1370

Location slightly SW of UGa-97 (31° 32′ 45″ N Lat, 81° 13′ 25″ W Long) similar occurrence.

 $390 \pm 120$ 

### UGa-98. Todd Creek Hammock oyster

A.D. 1560

Shell from low hammock, perhaps a former beach ridge. Presently covered by modern tidal-marsh soil (31° 33′ 4″ N Lat, 81° 13′ 30″ W Long).

 $730 \pm 120$ 

#### UGa-107. Teakettle Creek Marsh oyster

A.D. 1220

Shell from another chenier 60 m E of UGa-110 and 115 m N of present margin of sound (31° 25′ 55″ N Lat, 81° 19′ 10″ W Long).

 $135 \pm 185$ 

#### UGa-109. Doboy Sound shell

A.D. 1815

Oyster and shell hash from E bank of Doboy Sound at mouth of Duplin R. (31° 24′ 43″ N Lat, 81° 17′ 58″ W Long), 80 cm depth at

base of oyster concentrate overlyinig mud. Bank presently undergoing erosion.

 $1380 \pm 195$ 

#### UGa-111. Shell Hammock Marsh shell

A.D. 570

Oyster hash from small shell chenier in marsh off Shell Hammock, Sapelo I. ca. 80 m. from island next to dike around Reynolds Marsh (31° 23′ 57″ N Lat, 81° 17′ 11″ W Long). Shells from 1 m depth in gray marsh mud next to chenier on its landward side, in top 1.5 m of sediment.

 $1590 \pm 420$ 

#### UGa-100. Shell Hammock oyster—NW

а.р. 360

Shell from depth 75 cm at contact of shell layer with underlying marsh peat (31° 24′ 19″ N Lat, 81° 17′ 33″ W Long). Formation indicates former sound margin.

 $70 \pm 125$ 

### UGa-102. Shell Hammock oyster—SE

A.D. 1880

SE of UGa-100 with similar surroundings (31° 24′ 15″ N Lat, 81° 17′ 32″ W Long). Comment (H.U.W.): such a recent date seems unlikely.

 $620 \pm 120$ 

# UGa-103. Black River Marsh oyster

а.р. 1330

Shell from low chenier in marsh S of Back R., where it merges with Doboy Sound (31° 21′ 49″ N Lat, 81° 18′ 32″ W Long). Source 180 m from sound in marsh interior from depth 75 cm at contact of shell deposit and underlying marsh.

 $230 \pm 130$ 

#### UGa-110. Teakettle Creek Marsh oyster

а.р. 1720

Shell from low chenier in marsh N of point where creek merges with Doboy Sound, 60 m N of present sound margin.

#### Georgia Continental Shelf series

Shells from box cores on continental shelf off Georgia were dated to study movement and deposition of coastal sediment.

 $1750 \pm 115$ 

#### UGa-232. S-72

а.р. 200

Argopectin gibbus, Pecten raveneli, Laevicardium pictum from upper 0.3 to 0.6 m sediment under 26 m water (31° 4′ 30″ N Lat, 80° 32′ 12″ W Long).

#### UGa-230. S-60

Modern

Argopectin gibbus from upper 0.3 to 0.6 m sediment under 49 m water (31° 14′ 36″ N Lat, 79° 57′ 0″ W Long).

 $27,860 \pm 2590$ 

#### UGa-231. S-45

25,910 в.с.

Crassostrea virginica from upper 0.3 to 0.6 m sediment beneath 18 m water (31° 23′ 0″ N Lat, 80° 48′ 0″ W Long).

 $9015 \pm 125$ 7065 B.C.

## UGa-229. S-36

Dosinia elegans from upper 0.3 to 0.6 m sediment under 47.5 m water (31° 31′ 42″ N Lat, 79° 53′ 12″ W Long).

Shells coll. by J. D. Howard and R. W. Frey; subm. by B. K. Sen Gupta, Geol. Dept., Univ. Georgia. *Comment* (B.S.G.): diversity of ages suggests greater transport of heavy shell material than previously thought.

#### Alluvial Wood series

Samples of wood recovered from alluvial terrace of Savannah R. at Merry Bros. Brick & Tile Co., Plant #1, Augusta, Georgia (33° 26' N Lat, 81° 56' W Long).

UGa-173.	6 m below surface	>40,000
UGa-174.		>40,000
UGa-172.	} 10 to 11 m below surface	>40,000
UGa-161.		>40,000
UGa-170.		$35,000 \pm 2300$
		33.050 в.с.

Coll. by R. E. Carver, Dept. Geol., Univ. Georgia. *Comment* (B.L.B.): ages, unfortunately, near or beyond range of C<sup>14</sup> dating.

#### Giant Sloth Bone series

From 11.2 km NW of Brunswick, Glynn Co., Georgia (31° 14′ N Lat, 81° 29′ W Long). Coll. by Michael Voorhees and Albert Brantley, Dept. Geol., Univ. Georgia.

UGa-79.	Bone	$9380 \pm 85$ $7430$ B.C.
UC a 20	Rono	$11,310 \pm 90$

UGa-79 is inner porous bone material and UGa-80 is the date of the outer dense bone material. Samples were rinsed in distilled water, crushed, soaked in 1N HCl and rinsed. The carbon recovered from the dry bone in burning was ca. 0.5% total sample weight. From area of many bones and whole skeletons from several extinct species.

#### B. Florida

#### Amelia Island shell series

Shells from Amelia I., Florida, from cores at various locations to help determine chronology of formation of island.

UGa-218.  $27,470 \pm 7570$ 25,520 B.C.

Shell fragments in fine gray sand, ca. 12 m from surface(30° 35′ 25″ N Lat, 81° 26′ 55″ W Long). Small sample.

UGa-219. >40,000

Shell fragments in mud ca. 15 m from surface (30° 34′ 10″ N Lat, 81° 27′ 6″ W Long).

UGa-217. >40,000

Shell fragments in fine sand and silt ca. 14 m from surface (30° 33′ 29″ N Lat, 81° 27′ 0″ W Long).

 $4950 \pm 70$  $3000 \, \text{B.c.}$ 

UGa-214.

Fine shell hash in silty fine sand ca. 13 m below surface (30° 33′ 40″ N Lat, 81° 26′ 36″ W Long).

 $4870 \pm 70$ 2920 B.C.

UGa-221.

Shell fragments, mostly oyster, from 5 m below surface (30° 31′ 51″ N Lat, 81° 26′ 52″ W Long).

 $5025 \pm 95$ 

UGa-222.

3075 в.с.

A.D. 1670

Shell fragments in mud 2 to 3 m below surface (30° 31′ 33″ N Lat, 81° 26′ 33″ W Long). Samples subm. by V. J. Henry, Marine Inst., Sapelo I., Georgia.

#### C. Colombia, South America

#### Ciénaga Grande series

Samples coll. as part of investigation of lagoon formation.

UGa-152. Ciénaga Grande 16 peat	$2430 \pm 85$ $480  \text{B.c.}$
(10° 57′ 48″ N Lat, 74° 19′ 42″ W Long)	100 200
	$2300 \pm 65$
UGa-149. Ciénaga Grande 127 peat	350 в.с.
(10° 54′ 48" N Lat, 74° 24′ 6" W Long)	
	$1920 \pm 65$
UGa-151. Ciénaga Grande 138 peat	<b>A.D.</b> 30
(10° 48′ 36″ N Lat, 74° 26′ 23″ W Long)	
	$1920 \pm 65$
UGa-150. Ciénaga Grande 119 peat	<b>A.D.</b> 30
(10° 46′ 6″ N Lat, 74° 24′ 6″ W Long)	
	$280 \pm 80$

Samples from lagoon separated from Caribbean Sea by narrow sand barrier. Lagoon uniformly 2 m deep. Peat indicates a rising sea level beginning ca. 2400 yr ago and encroaching from N. Shell is from more recent estuarine sediments overlying peat. Samples coll., subm. and commented on by H. U. Wiedemann.

UGa-146. Ciénaga Grande 118 oyster

(10° 45′ 0″ N Lat, 74° 24′ 6″ W Long)

#### II. ARCHAEOLOGIC SAMPLES

#### A. South

## 1. Mississippi

## Boyd site series

Boyd site 22-Tu-531, Tunica Co., Mississippi (34° 36' N Lat, 90° 25' 10" W Long).

 $1410 \pm 70$ UGa-159. Charcoal A.D. 540

Level 0.6 to 0.8 m. Feature #28, refuse pit.

 $1500 \pm 75$ 

UGa-163. Charcoal A.D. 450

Level 0.4 to 1.4 m. Feature #22, refuse pit.

 $1700 \pm 80$ 

UGa-158. Charcoal A.D. 250

Level 0.6 to 0.8 m. Feature #10, refuse pit.

 $1865 \pm 100$ 

UGa-164. Charcoal

A.D. 85

Lower Midden, below UGa-158, Feature #37, refuse pit.

 $2170 \pm 90$ 220 в.с.

#### UGa-166. Charcoal

Lower midden, below UGa-159, Feature #47. Comment: dates confirm range anticipated from ceramic analysis. The sequence in which they occur also appears good. Dates represent 2 components separated by a layer of sterile sand. The lower component is of the Tchula period, the upper is late Markville and Baytown. The earlier dates, 220 B.C. and A.D. 85 are from the lower stratum. The 3 younger dates are from the upper stratum and fall into correct order of age based on ceramic seriation.

Clear Creek site 22-La-542, Lafayette Co., Mississippi (34° 25' 5" N Lat, 89° 42′ 48″ W Long).

 $1620 \pm 90$ 

# UGa-167. Charcoal

A.D. 350

Cultural assoc. is Tchula and Early Baytown; date seems inconsistent with ceramic assoc. which would tend to place it in interval between the 2 occupation zones at Boyd site, A.D. 85 to A.D. 250.

Denton site 22-Qu-522, Quitman Co., Mississippi (34° 9′ 4" N Lat, 90° 19′ 26″ W Long).

> $5230 \pm 125$ 3280 в.с.

### UGa-212. Charcoal

0.3 to 0.5 m below surface. Site was thought to be pre-Poverty point because of surface collections. Date confirms belief but is somewhat earlier than expected. The Denton excavation was the 1st of an Archaic, pre-Poverty Point site in the Yazoo Basin to yield a date. Similar sites

are now being considered for testing and should elucidate significance of date.

Mississippi samples coll. and commented on by John Connaway and Sam McGahey, State Survey Archaeologists.

# 2. Georgia

#### Table Point site series

Table Point site, Cumberland I., Georgia (30° 52′ 30″ N Lat, 81° 28′ 0″ W Long).

 $1895 \pm 95$ 

# UGa-129. Busycon perversum (linné)

a.d. 55

Shell from a house pattern of Deptford period, shows use-battering on tip. 80% of assoc. pottery is Deptford with some fiber-tempered and semi-fiber tempered pottery, placing date early in Deptford period. Date pinpoints time of emergence from (or intrusion into) Transitional period by the Deptford peoples on the SE Georgia coast.

UGa dates are 1st for Deptford on Georgia Coast, previous dates were intuitive. It now seems that populations were smaller, diffusion slower, and cultural changes less rapid on Georgia coastal plain than supposed. Sample coll. and comment by Jerald Melanich, Dept. Archaeol., Univ. Florida.

 $280 \pm 70$ 

# UGa-140. 9-Mg-28, Morgan County, Georgia A.D. 1670

Charcoal from Pit 1, just below plow zone, 2 m diam., 0.7 m deep at center (33° 30″ N Lat, 83° 25′ W Long). Coll. by Mark Williams, J. R. Caldwell, and Marshall Williams, Lab. Archaeol., Univ. Georgia. Comment (Marshall W.): protohistoric Creek site with busk ceremony trash pit, ca. 50 large (up to 0.5 m diam.) vessels in whole or in part reconstructed from pit. C¹⁴ date agrees with cultural assocs.

 $1550 \pm 65$ 

# UGa-225. Cold Springs Mound, Georgia A.D. 400

Knot from charred log in Cold Spring Mound, Greene Co., Georgia (33° 36′ 33″ N Lat, 85° 16′ 20″ W Long) Survey Test Pit 1, Feature 1. Feature 1 is fired clay area 1.5 to 3.6 m, 0.15 to 0.20 m below surface of mound summit. Two parallel logs, 2.9 m apart outlined E and W sides of feature, sample is from W log. Hopewellian site; date compares with other Georgia sites from A.D. 1 to 400. Coll., subm., and comment by Archie Smith, Lab. Archaeol., Univ. Georgia.

 $3215 \pm 80$ 

# UGa-226. Creighton Island conch

1265 в.с.

Conch from Site 9-McI-87, S end Creighton I., Georgia (31° 31′ 7″ N Lat, 81° 20′ 3″ W Long) from Pit 1, 1.7 to 1.8 m below surface in Zone 3. Deposit was from bottom of shell mound and assoc. with decorated fiber-tempered pottery. Coll. and subm. by D. L. Crusoe, Dept. Anthropol., Univ. Georgia.

 $3470 \pm 85$ 

## UGa-227. Creighton Island oyster

1520 в.с.

Oyster from same site at UGa-226, 1.4 m below surface of Pit 1. Same pottery assoc. *Comment* (D.L.C.): 2 dates are reverse of expectation.

# 3. Virginia

Brown Johnson site, Bland Co., Virginia (37° 11′ N Lat, 81° 08′ 25″ W Long). Charcoal samples from a palisaded Late Woodland Indian village.

 $460 \pm 75$ 

UGa-176 A. Feature 29

а.р. 1490

 $430 \pm 90$ 

UGa-176 B.

 $735 \pm 75$ 

#### UGa-179. Feature 13

**А.**D. 1215

A.D. 1520

Comment by collector, H. A. MacCord, Sr., Archaeologist, Commonwealth of Virginia (1971); UGa-176 from bell-shaped storage pit, used as a grave. Date agrees with cultural assocs. UGa-179, from small storage pit, is believed too early as only one occupation of site is evident archaeologically and date A.D. 1500 to 1550 would seem more likely.

#### 4. Tennessee

 $2335 \pm 65$ 

#### UGa-199. Faust Shelter

385 в.с.

Charcoal from 50 cm below surface of shelter in Morgan Co. (36° 11′ 50″ N Lat, 84° 36′ 40″ W Long), subm. by L. L. Loendorf, Univ. Missouri. *Comment* (L.L.L.): expected date ca. A.D. 0.

#### 5. Missouri

 $355 \pm 75$ 

#### **UGa-147.** Hess site, 23-Mi-55

A.D. 1595

Charcoal from Refuse Pit #3 near center of Structure #4, a burned Early Mississippian period domicilary structure. (Similar structure date Gak-1309,  $350 \pm 90$ , Lewis, pers. commun.).

 $480 \pm 65$ 

# UGa-145. Callahan-Thompson site, 23-Mi-71 A.D. 1470

Charcoal recovered from just above floor of NE corner of Structure #1, an Early Mississipian domiciliary structure based on ceramics and nature of occupation.

 $570 \pm 90$ 

# UGa-148. Callahan-Thompson site, 23-Mi-71 A.D. 1380

Charcoal from Post 91, a charcoal structural support stud inside wall Trench E. Samples from Hess and Callahan-Thompson sites subm. with comments by R. B. Lewis, Dept. Am. Archaeol., Univ. Missouri.

 $675 \pm 70$ 

# UGa-244. Towosahgy site

A.D. 1275

Charcoal from Towosahgy State Archaeological site 23-Mi-2 (36° 41′ 35″ N Lat, 89° 14′ 5″ W Long) from burned post from Stockade A-1. Comment by submitter, J. W. Cottier, Site Archaeologist. Date will help establish occupation of fortified ceremonial centers for Mississippian tradition of SE Missouri.

 $1060 \pm 260$ 

# UGa-243. Towosahgy site

а.р. 490

Charcoal from same site as UGa-244, Stockade B, with assoc. bastion, a feature not noted in other excavated stockades.

B. West

1. Wyoming

 $3860 \pm 75$ 

# UGa-190. Big Horn Basin

1910 в.с.

Chracoal from buried soil in N Big Horn Basin, Big Horn Co., Wyoming (45° 0′ 02″ N Lat, 108° 26′ 37″ W Long). Date may represent altithermal interval in area.

 $2130 \pm 60$ 

#### UGa-223. Bandit site

180 в.с.

Charcoal from 48-Bh-460, below burned sandstone (44° 81′ 24″ N Lat, 108° 18′ 52″ W Long). Agrees with archaeologic estimate.

2. Montana

 $1570 \pm 80$ 

## **UGa-191.** Carbon County

A.D. 380

Charcoal from buried hearth near Montana/Wyoming border (45° 0′ 04″ N Lat, 108° 25′ 44″ W Long). Hearth has 5 m overburden. In addition to being a site date, we are also informed as to how fast the overburden builds up in this area, *i.e.*, ca. 1 m per 300 yr.

 $1920 \pm 65$ 

# UGa-192. Big Horn Canyon

A.D. 30

Charcoal from small rock shelter along Big Horn Canyon (45° 1′ 5″ N Lat, 108° 15′ 40″ W Long). No cultural assoc.

 $2510 \pm 240$ 

# UGa-193. Carbon County

560 в.с.

Small charcoal sample from lowest level in rock shelter (45° 3′ 48″ N Lat, 108° 27′ 1″ W Long). Assoc. cultural debris is Angostura; date is younger than expected.

 $1735 \pm 150$ 

#### UGa-196. Carbon County

A.D. 215

Charcoal from same rock shelter as UGa-193 and -198. Assoc. debris suggests somewhat older age.

# UGa-198. Carbon County

 $1690 \pm 60$ **A.D. 260** 

Sample from test pit in rock shelter of UGa-193, -196. Agrees well with UGa-196. Wyoming and Montana samples subm. with comments by L. L. Loendorf, Am. Archaeol., Univ. Missouri.

MacCord, H. A., Sr., 1971, Brown Johnson Site, Bland Co., Virginia: Quarterly Bull.,

Archeol. Soc. Virginia, v. 25, p. 230-272.

Noakes, J. E. and Brandau, B. L., 1971, University of Georgia radiocarbon dates I: Radiocarbon, v. 13, p. 468-474.