

## UNIVERSITY OF MIAMI RADIOCARBON DATES IV

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The following list of dates are selected from geologic and archaeological samples measured in late 1974. The technique employed is liquid scintillation counting of wholly synthesized benzene as described in (R, v 16, p 402-408). Errors are reported as one standard deviation. Sample descriptions and comments were written in collaboration with collectors and submitters.

### ACKNOWLEDGMENTS

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### SAMPLE DESCRIPTIONS

#### I. ARCHAEOLOGIC SAMPLES

##### *A. United States*

##### **Uchee Creek series**

Two shell samples from S bank of Uchee Creek, Columbia Co, Georgia (33° 35' 30" N, 82° 08' 53" W). Coll and subm 1974 by R L Smith, Dept Sociol, Florida Technol Univ, Orlando, Florida.

*General Comment* (RLS): fiber-tempered pottery from Stalling's I, Georgia, dates 2000 to 2500 BC. Pottery found downstream from Uchee Creek is thought to be earliest among aboriginals of SE North America.

<b>UM-340. Pit 2</b>	<b>3915 ± 85</b> <b>1965 BC</b>
<b>UM-341. Pit 6</b>	<b>3860 ± 75</b> <b>1910 BC</b>

##### **Delaney Creek series**

Shell and charcoal from various depths, Delaney Creek shell midden, Tampa Bay, Florida (27° 54' 50" N, 82° 24' 50" W). Dates time of habitation by S Florida Indians. Coll 1972 and subm 1974 by R Williams, Dept Anthropol, Univ South Florida, Tampa, Florida and R Cathcart.

*General Comment* (RW): maximum date of Perico Island period pottery assoc with midden is 1000 BC.

<b>UM-292. Level 7</b>	<b>1955 ± 60</b> <b>5 BC</b>
Charcoal from .5m beneath surface.	
<b>UM-293. Level 4</b>	<b>3640 ± 75</b> <b>1690 BC</b>
Carolina marsh clam from .25m beneath surface.	
<b>UM-294. Level 6</b>	<b>2815 ± 90</b> <b>865 BC</b>
Pelcypods and gastropods from .5m beneath surface.	

<b>UM-295. Level 7</b>	<b>1815 ± 70</b>
Charcoal from .5m beneath surface.	<b>AD 135</b>
<b>UM-296. Level 7</b>	<b>2610 ± 70</b>
Shell from .5m beneath surface.	<b>660 BC</b>
<b>UM-297. Level 4</b>	<b>2100 ± 65</b>
Charcoal from .25m beneath surface.	<b>150 BC</b>

## II. GEOLOGIC SAMPLES

*A. United States***Hillsborough County series**

Four peat samples from core taken in NW Hillsborough Co, Florida (28° 02' 30" N, 82° 35' 00" W). Results date depositional accumulation of relict peat. Coll and subm 1974 by R W Pratt, Law Engineering Testing Co, Tampa, Florida. All samples were pretreated with hot 5% NaOH, hot 10% HCl, rinsed with deionized H<sub>2</sub>O and dried.

	<b>+ 1805</b>
	<b>32,610</b>
	<b>— 2330</b>
<b>UM-372. S-14, depth 15m</b>	<b>30,660 BC</b>
	<b>+ 1970</b>
	<b>35,530</b>
	<b>— 2615</b>
<b>UM-373. S-22, depth 26m</b>	<b>33,580 BC</b>
<b>UM-374. S-24, depth 30m</b>	<b>&gt;35,200</b>
	<b>+ 2525</b>
	<b>37,545</b>
	<b>— 3700</b>
<b>UM-375. S-27, depth 37m</b>	<b>35,595 BC</b>

**Pourtales Terrace series**

Corals and carbonate sediments from carbonate platform, Pourtales Terrace, off SE coast of Florida. Dates establish drowning and post-drowning sedimentary sequence. Coll 1971 by D Gomberg, RSMAS, Miami, Florida; subm 1974 by E McDougal.

<b>UM-197. GS-49R</b>	<b>7730 ± 110</b>
Conglomerate calcarenite boundstone from 150m water (24° 36' 06" N, 80° 35' 30" W).	<b>5780 BC</b>
<b>UM-198. GS-14</b>	<b>13,030 ± 200</b>
Coarse-grained skeletal calcarenite from 260m water (24° 15' 42" N, 81° 34' 42" W).	<b>11,080 BC</b>

- UM-199. 71-14A** **Modern**  
 Stylasterine coral from 200m water (24° 31' 30" N, 80° 40' 00" W).  
 Sample cleaned with 10% hot HCl. **355 ± 60**  
**AD 1595**
- UM-200. GS-21A**  
 Solitary corals coll in 200m water (24° 18' 18" N, 82° 06' 12" W).  
 Sample cleaned with 10% hot HCl. **14,540 ± 300**  
**12,590 BC**
- UM-201. 26 GY**  
 Cemented internal sediments from 200m water (24° 22' 36" N, 81° 37' 45" W). **>30,680**
- UM-202. 26 GA**  
 Cemented internal sediments from 200m water (24° 22' 36" N, 81° 37' 45" W). **9990 ± 150**  
**8040 BC**
- UM-203. 71-7 BA**  
 Bioclastic sand from 200m water (24° 43' 36" N, 80° 27' 12" W). **26,240 ± 1360**  
**24,290 BC**
- UM-204. 71-7 BB**  
 Mg-calcite from 200m water (24° 43' 36" N, 80° 27' 12" W). **12,790 ± 170**  
**10,840 BC**
- UM-270. 30-1**  
 Calcareous algal boundstone from 183m water (24° 25' 30" N, 81° 25' 12" W). Organic matter removed with 5% hot NaOH. Sample cleaned with 10% hot HCl. **11,800 ± 150**  
**9850 BC**
- UM-271. 30-7**  
 Calcareous algal boundstone from 183m water (24° 25' 30" N, 81° 25' 12" W). Organic matter removed with 5% hot NaOH. Sample cleaned with 10% hot HCl. **8780 ± 190**  
**6830 BC**
- UM-272. 30-8**  
 Calcareous algal boundstone from 183m water (24° 25' 30" N, 81° 25' 12" W). Organic matter removed with 5% hot NaOH. Sample cleaned with 10% hot HCl. **11,790 ± 180**  
**9840 BC**
- UM-273. 31-1**  
 Flat-layered, calcareous algal deposit from 183m water (25° 25' 54" N, 81° 16' 42" W). **14,990 ± 460**  
**13,040 BC**
- UM-274. 31-2**  
 Flat-layered, calcareous algal deposit from 183m water (25° 25' 54" N, 81° 16' 42" W). Surface of chipped layers lightly etched with 10% HCl.

*B. Bahamas***Frazers Hog Cay series**

Carbonate sediment from various cores, Frazers Hog Cay, Bahamas. Samples date sedimentary sequence of Holocene bank transgression. Coll 1962 by J Imbrie; subm 1974 by H Buchanan and P Crevello.

- |  |                   |
|--|-------------------|
|  | <b>1440 ± 50</b>  |
| <b>UM-298. Core 784-AR</b>   | <b>AD 510</b>     |
| Indurated carbonate from 15cm within core. From 1.5m water (25° 27' 25" N, 77° 53' 14" W).                         |                   |
|  | <b>2570 ± 80</b>  |
| <b>UM-299. Core 861-10</b>   | <b>620 BC</b>     |
| Indurated carbonate from 95cm within core. From 2.45m water (25° 26' 52" N, 77° 55' 16" W).                        |                   |
|  | <b>1010 ± 70</b>  |
| <b>UM-300. Core 886N</b>   | <b>AD 950</b>     |
| Carbonate skeletal sediments and pellet mud from 198cm within core. From shoreline (25° 28' 49" N, 77° 52' 21" W). |                   |
|  | <b>1960 ± 80</b>  |
| <b>UM-301. Core 777B</b>   | <b>10 BC</b>      |
| Carbonate skeletal sediments and pellet mud from 550cm within core. From shoreline (25° 28' 49" N, 77° 52' 21" W). |                   |
|  | <b>2160 ± 80</b>  |
| <b>UM-302. Core 858-N</b>  | <b>210 BC</b>     |
| Indurated carbonate from 128cm within core. From 2.2m water (25° 27' 09" N, 77° 53' 56" W).                        |                   |
|  | <b>2370 ± 80</b>  |
| <b>UM-303. Core 784BN</b>  | <b>420 BC</b>     |
| Indurated carbonate from 85cm within core. From 1.5m water (25° 27' 25" N, 77° 53' 14" W).                         |                   |
|  | <b>2020 ± 90</b>  |
| <b>UM-304. Core 859SH</b>  | <b>70 BC</b>      |
| Indurated carbonate from 37cm within core. From 1m water (25° 26" N, 77° 51' 02" W).                               |                   |
|  | <b>3890 ± 140</b> |
| <b>UM-305. Core 860-N</b>  | <b>1940 BC</b>    |
| Indurated carbonate from 150cm within core. From 1.5m water (25° 28' 06" N, 77° 53' 20" W).                        |                   |

*C. East Pacific Rise***East Pacific Rise series**

Three cores of pelagic ooze from East Pacific Rise. Samples date sedimentation rate of active spreading ridge. Core A (14° 47' 09" S, 113° 30' 01" W) and Core B (12° 60' 01" S, 105° 04' 00" W) are gravity cores. Core C (14° 47' 09" S, 113° 30' 01" W) is a piston core. Coll 1972 by K Boström, RSMAS, Miami, Florida; subm 1974 by J Hattner.

*General Comment* (KB): dates possibly affected by slumping, overturning, marine organisms or inclusion of inorganic carbonate.

<b>UM-290.</b>	<b>Core A, 0 to 20cm</b>	<b>9690 ± 100</b> <b>7740 BC</b>
<b>UM-291.</b>	<b>Core A, 40 to 60cm</b>	<b>28,430 ± 700</b> <b>26,480 BC</b>
<b>UM-316.</b>	<b>Core A, 80 to 100cm</b>	<b>26,030 ± 790</b> <b>24,080 BC</b>
<b>UM-317.</b>	<b>Core A, 120 to 140cm</b>	<b>31,200 ± 1470</b> <b>29,250 BC</b>
<b>UM-285.</b>	<b>Core B, 0 to 15cm</b>	<b>16,760 ± 200</b> <b>14,810 BC</b>
<b>UM-286.</b>	<b>Core B, 25 to 35cm</b>	<b>18,730 ± 570</b> <b>16,780 BC</b>
<b>UM-287.</b>	<b>Core B, 55 to 65cm</b>	<b>30,630 ± 1320</b> <b>28,680 BC</b>
<b>UM-288.</b>	<b>Core B, 85 to 95cm</b>	<b>31,190 ± 1380</b> <b>29,240 BC</b>
<b>UM-289.</b>	<b>Core C, 50 to 57cm</b>	<b>27,260 ± 1220</b> <b>25,310 BC</b>

*D. Mid-Atlantic Ridge*

**Mid-Atlantic Ridge series**

Two cores of pelagic ooze from crest of Mid-Atlantic Ridge. Samples date sedimentation rate of slow spreading ridge. Core A (00° 48' 48" N, 31° 27' 00" W) and Core B (04° 27' 36" N, 25° 09' 03" W) are both gravity cores. Coll 1970 by K Boström, RSMAS, Miami, Florida; subm 1974 by D Grigoriev.

*General Comment* (KB): dates possibly affected by slumping or overturning of sediments.

<b>UM-276.</b>	<b>Core A, 0 to 15cm</b>	<b>4850 ± 100</b> <b>2900 BC</b>
<b>UM-277.</b>	<b>Core A, 40 to 45cm</b>	<b>20,640 ± 560</b> <b>18,690 BC</b>
<b>UM-278.</b>	<b>Core A, 80 to 95cm</b>	<b>23,230 ± 410</b> <b>21,280 BC</b>
<b>UM-279.</b>	<b>Core A, 120 to 135cm</b>	<b>31,200 ± 1000</b> <b>29,250 BC</b>

<b>UM-281.</b>	<b>Core B, 0 to 18cm</b>	<b>2620 ± 140</b> <b>670 BC</b>
<b>UM-282.</b>	<b>Core B, 45 to 63cm</b>	<b>23,410 ± 740</b> <b>21,460 BC</b>
<b>UM-283.</b>	<b>Core B, 95 to 103cm</b>	<b>29,240 ± 1670</b> <b>27,290 BC</b>
<b>UM-284.</b>	<b>Core B, 138 to 155cm</b>	<b>&gt;35,000</b>

## REFERENCE

Stipp, J J, Eldridge, K L, Cohen, S J, and Weber, K, 1974, University of Miami radio-carbon dates I: Radiocarbon, v 16, p 402-408.