

PROGRESS REPORT  
FOR THE THIRTY-SEVENTH QUARTER

On

STUDY OF WOODBORER POPULATIONS  
IN RELATION TO THE OYSTER CREEK  
NUCLEAR GENERATING STATION

To

GPU NUCLEAR CORPORATION  
August 31, 1984

by

R.E. Hillman and C.J. Belmore

REPORT NO. 15245

May 1, 1984 to July 31, 1984

BATTELLE  
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Duxbury, Massachusetts 02332

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## EXECUTIVE SUMMARY

This progress report presents data from field and laboratory work during the period May 1 to July 31, 1984. Also included are the results of observations on gonad development in samples collected in April, May, and June, 1984.

All field work during this quarter was carried out by GPU Nuclear personnel. Temperature, salinity, dissolved oxygen and pH were measured and recorded at each of the 20 stations during the three periods of exposure panel exchange.

Teredinidae were found in the six-month exposure panel removed in May, 1984 from the Coast Guard Station. Prior to 1983, no shipworms had ever been found in exposure panels removed in May or June from sites in Barnegat Bay.

For the most part, gonad development was in the early active stage through April and May, and into the late active phase in June. A notable exception was at Station 17, where many of the Teredo navalis specimens recovered in April were ripe to partially spawned. This was also true of June's sample. Otherwise, development patterns were normal for this time of year.

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**INTRODUCTION**

Battelle's New England Marine Research Laboratory is conducting an investigation to determine whether the Oyster Creek Nuclear Generating Station is affecting the resident marine borer population in Oyster Creek to the extent that that population is contributing significantly to marine borer-caused damage in Barnegat Bay.

A description of the program and procedures used may be found in the eighth annual report titled, "Study of Woodborer Populations in Relation to the Oyster Creek Generating Station", dated May 15, 1984.

This report presents data for the thirty-seventh quarterly period from May 1 to July 31, 1984.

## PROCEDURES AND INTERIM DATA

### Exposure panels

The long-term and short-term exposure panels were retrieved and replaced with new untreated pre-soaked (for two weeks) panels at the 20 exposure sites in Barnegat Bay and adjacent waters (Figure 1) during the periods of May 14-15, June 11-12, and July 9-10, 1984. Long-term and short-term panels at all stations were retrieved and replaced by personnel from GPU's Oyster Creek Nuclear Generating Station.

Table 1 describes the geographical locations of the exposure sites. Data from the laboratory examination of the panels are presented in Tables 2 through 5.

### Water Quality

Salinity, water temperature, dissolved oxygen and pH were taken at each site by the GPU Nuclear field team. Results for May, June, and July, 1984 are presented in Tables 6 through 8.

### Teredinid Gonadal Development Studies

Table 9 shows the gonad condition of teredinid borers collected in April, May, and June, 1984. Included are results from panels exposed for periods ranging from 6 to 12 months.

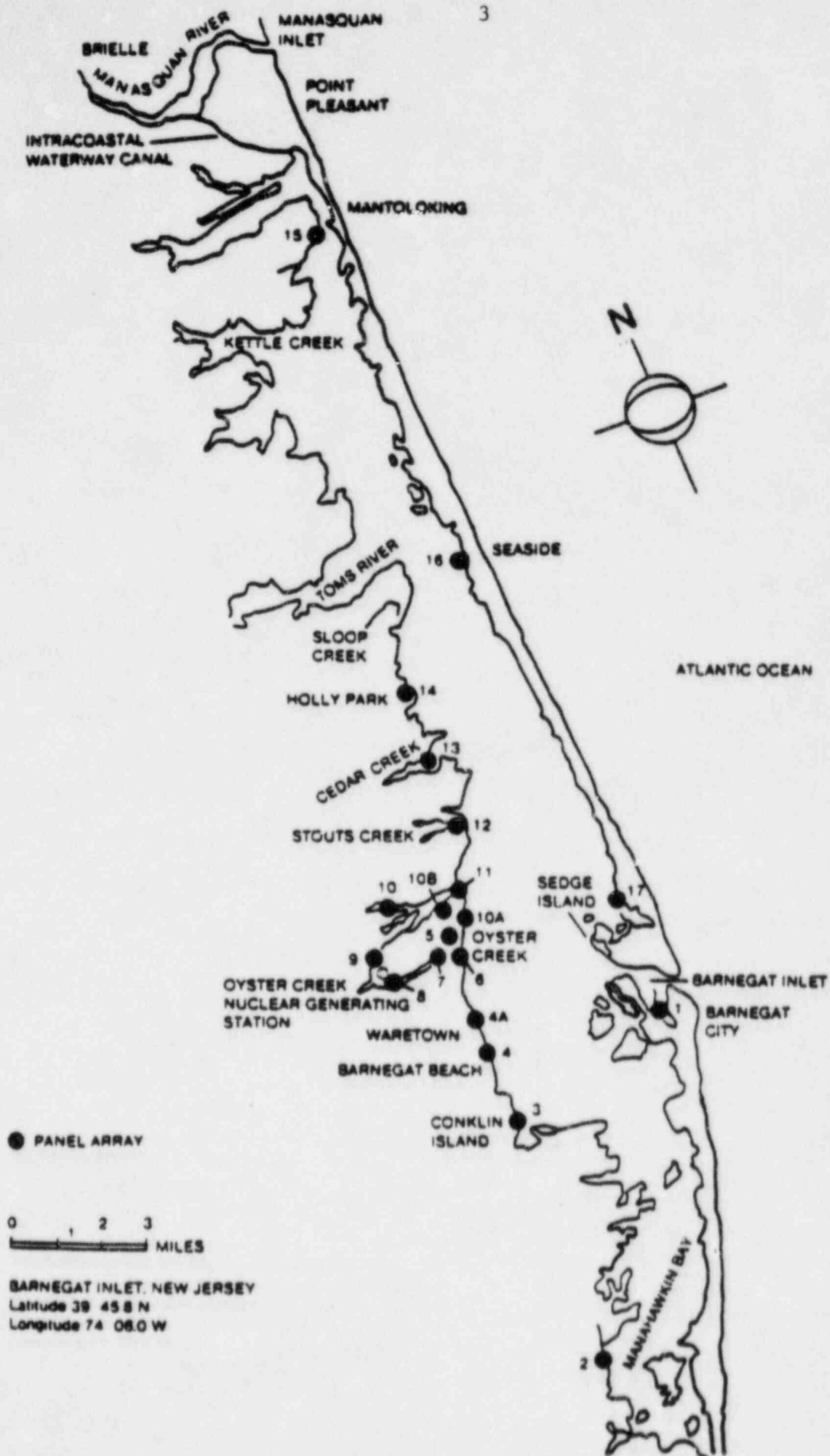


FIGURE 1. OUTLINE OF BARNEGAT BAY SHOWING GEOGRAPHIC LOCATIONS OF EXPOSURE PANELS



**TABLE 1. GEOGRAPHICAL LOCATIONS OF BATTELLE NEW ENGLAND MARINE RESEARCH LABORATORY'S EXPOSURE PANEL ARRAYS IN BARNEGAT BAY, NEW JERSEY**

Site No.	Site	Structure to be used for Suspension of Rack	Nearest Previous Data Stations	Approximate Latitude and Longitude
1.	Barnegat Coast Guard Station, Barnega <sup>*</sup> Inlet	Finger Pier Bulkhead	WC 1 WFCL 1948-1967	Lat. 39° 45.8'N Long. 74° 06.5'W
2.	Ashton Marina 1450 Bay Ave. Manahawkin	Bulkhead	WC 13, 14	Lat. 39° 40'N Long. 74° 13'W
3.	Iggie's Marina East Bay Ave. Barnegat (Conklin Island)	Bulkhead	WC 16, 17, 18, 19	Lat. 39° 45'N Long. 74° 12.5'W
4.	Liberty Harbor Marina Washington Ave. Waretown	Bulkhead	WC 21 R. Turner Rutgers U.	Lat. 39° 47'N Long. 74° 11'W
4-A*.	Holiday Harbor Marina Lighthouse Drive Waretown	Bulkhead R. Turner Rutgers U.	WC 21	Lat. 39° 48'N Long. 74° 11'N
5.	Mouth of Oyster Creek, Lot 4, Compass Road Offshore End	Dock	WC 29, 30 Rutgers U.	Lat. 39° 48.5'N Long. 74° 10.3'W
6.	Oyster Creek I Lagoon, Inshore End 37 Capstan Road	Dock		Lat. 39° 48.5'N Long. 74° 10.35'W

TABLE 1. (Continued)

Site No.	Site	Structure to be used for Suspension of Rack	Nearest Previous Data Stations	Approximate Latitude and Longitude
7.	Private Dock Dock Ave. Oyster Creek Sands Pt. Harbor Waretown	End of Dock	WC 27,28 R. Turner Rutgers U.	Lat. 39° 48.5'N Long. 74° 11.1'W
8*.	Oyster Creek Discharge Canal	Bulkhead 1500 ft. east of the R.R. bridge	WC 26	Lat. 39° 48.7'N Long. 74° 12'W
9*.	Forked River South Branch Intake Canal	Metal pier	WC 31	Lat. 39° 49.2'N Long. 74° 12.2'W
10.	Teds Marina Bay Ave. Forked River	Pier	WC 33, 34	Lat. 39° 50.1'N Long. 74° 11.6'W
10A*.	Private Dock 1217 Aquarius Ct. Forked River	Under Dock		Lat. 39° 49'N Long. 74° 10'W
10B*.	Private Dock 1307 Beach Blvd. Forked River	Under Dock		Lat. 39° 49.4'N Long. 74° 10.1'W
11.	Forked River (near mouth) 1413 River View Drive	Bulkhead	WC 35 Rutgers U.	Lat. 39° 49.7'N Long. 74° 10'W



TABLE 1. (Continued)

Site No.	Site	Structure to be used for Suspension of Rack	Nearest Previous Data Stations	Approximate Latitude and Longitude
12.	Stouts Creek 1273 Capstan Drive	Bulkhead	WC 38, 40, 41 R. Turner Wurtz Rutgers U.	Lat. 39° 50.5'N Long. 74° 08.8'W
13.	Rocknak's Yacht Basin Barramore Ave. Lanoka Harbor Cedar Creek	End of Pier	WC 46	Lat. 39° 52'N Long. 74° 09'W
14.	Dicks Landing Island Drive Bayville (Holly Park)	Pier	WC 49 R. Turner Nelson	Lat. 39° 54'W Long. 74° 08.1'W
15.	Winter Yacht Basin Inc. Rt. 528 Mantoloking Bridge	Pier	WC 57	Lat. 40° 02.5'N Long. 74° 04.9'W
16*.	Berkely Yacht Basin J. Street Seaside	Pier	WC 60, 61	Lat. 39° 55.9'N Long. 74° 04.9'W
16A*.	Municipal Dock Seaside Heights	Pier	WC 60, 61	Lat. 39° 56.6'N Long. 74° 04.9'W
16B*.	Bayside Boats State Highway 35 and Bay Boulevard Seaside Heights, NJ	Pier	WC 60, 61	Lat. 39° 56.6'N Long. 74° 04.9'W

TABLE 1. (Continued)

Site No.	Site	Structure to be used for Suspension of Rack	Nearest Previous Data Stations	Approximate Latitude and Longitude
17.	Island Beach State Park (Sedge Island)	Pier	WC 68	Lat. 39° 47.1'N Long. 74° 05.9'W

All exposure panel racks suspended in a minimum water depth at mean low water of at least three feet. Racks hung with nylon line from existing structures so the bottom panels are close to, but not touching the bottom. Racks at Forked River railroad bridge and Oyster Creek railroad bridge suspended with wire rope.

WC = Woodward-Clyde

WFCL = William F. Clapp Laboratories

- \* Site 4-A installed April, 1977.
- Sites 10A, 10B installed April, 1978.
- Site 16 discontinued November, 1981.
- Site 16A installed December, 1981 - discontinued June, 1982.
- Site 16B installed June, 1982.

TABLE 2. INCIDENCE OF TEREDINIDAE IN PANELS REMOVED MAY 14-15, 1984

Station	Panel	No. of Specimens	Percent Filled	Size Range in mm.	Species Identification
1	P	170	<1	<1	170 Teredinidae*
	C	0			

Stations 2-17 - No Teredinidae present.

P = Long-term panel submerged November 7-8, 1983.

C = Short-term panel submerged April 16-17, 1984.

\* = Not speciated due to size.

TABLE 3. INCIDENCE OF TEREDINIDAE IN PANELS REMOVED JUNE 11-12, 1984

Station	Panel	No. of Specimens	Percent Filled	Size Range in mm.	Species Identification
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Stations 1-17 - No Teredinidae present.

TABLE 4. INCIDENCE OF TEREDINIDAE IN PANELS REMOVED JULY 9-10, 1984

Station	Panel	No. of Specimens	Percent Filled	Size Range in mm.	Species Identification
1	P	0			
	C	2	<1	1-2	2 Teredinidae*
7	P	1	<1	5	1 <u>Bankia</u> spp.
	C	0			
8	P	0			
	C	1	<1	<1	1 Teredinidae*
11	P	9	<1	1-3	2 <u>Bankia</u> spp., 7 Teredinidae*
	C	7	<1	1-3	1 <u>Bankia</u> spp., 6 Teredinidae*
12	P	1	<1	<1	1 Teredinidae*
	C	0			

Stations 2-6, 9-10B, 13-17 - No Teredinidae present.

P = Long-term panel submerged January 9-10, 1984.

C = Short-term panel submerged June 11-12, 1984.

\* = Not speciated due to size.

TABLE 5. INCIDENCE OF LIMNORIA IN PANELS REMOVED MAY, JUNE, AND JULY, 1984.

Station	Panel	May		June*		July**	
		No. of Tunnels	No. of Specimens	No. of Tunnels	No. of Specimens	No. of Tunnels	No. of Specimens
1	P	0		0		14	21
	C	0		0		0	
2	P	2	0	93	153	310	480
	C	7	2	34	57	36	49
3	P	0		4	6	16	11
	C	0		2	3	0	
4	P	0		0		3	2
	C	0		1	0	0	
4A	P	2	2	230	315	690	1000
	C	0		14	4	56	80

Stations 5-17 - No Limnoria present.

P = Long-term panel, submerged 6 months.

C = Short-term panel, submerged 1 month.

\* = Gravid females present.

\*\* = Gravid females and juveniles present.



TABLE 6. WATER QUALITY AT EXPOSURE PANEL STATIONS  
MAY, 1984

Station	Date	Time	Depth in Feet	Salinity o/oo	Temperature (°C)	O <sub>2</sub> (mg/l)	pH
1	5/14/84	0939	5.5	28.8	11.8	8.0	7.6
2	5/14/84	1025	5.5	20.0	17.0	7.6	8.1
3	5/14/84	1110	2.0	18.0	17.1	7.8	8.1
4	5/14/84	1138	3.0	20.0	17.0	7.4	8.0
4A	5/14/84	1200	2.0	19.9	17.2	6.6	7.5
5	5/14/84	1230	1.5	7.2	16.2	9.4	7.4
6	5/14/84	1252	2.0	9.3	16.9	9.4	7.8
7	5/14/84	1313	3.5	15.1	17.1	8.9	7.9
8	5/14/84	1337	2.0	15.1	16.7	9.0	7.9
9	5/14/84	1444	5.5	16.7	16.2	7.6	7.0
10	5/15/84	1343	4.0	16.1	15.3	7.2	7.4
10A	5/14/84	1518	1.5	16.9	17.0	9.8	8.0
10B	5/14/84	1530	3.0	17.1	17.1	9.6	8.1
11	5/14/84	1548	1.5	12.8	16.2	9.4	7.8
12	5/15/84	1308	2.5	14.9	16.0	9.3	8.2
13	5/15/84	1240	3.0	13.9	16.0	8.5	7.7
14	5/15/84	1208	2.0	12.2	15.8	8.8	7.7
15	5/15/84	0900	3.0	13.9	14.0	8.7	7.5
16B	5/15/84	0930	4.0	9.5	15.0	8.1	7.3
17	5/15/84	1012	1.0	24.0	13.8	7.9	7.9

TABLE 7. WATER QUALITY AT EXPOSURE PANEL STATIONS  
JUNE, 1984

Station	Date	Time	Depth in Feet	Salinity o/oo	Temperature (°C)	O <sub>2</sub> (mg/l)	pH <sup>1</sup>
1	6/11/84	0910	5.0	28.8	19.6	6.2	6.2*
2	6/11/84	0950	5.5	21.6	27.9	5.3	6.0*
3	6/11/84	1020	1.5	20.9	27.5	5.8	6.1*
4	6/11/84	1045	3.5	20.7	28.0	4.0	6.1*
4A	6/11/84	1100	2.0	20.7	28.0	5.4	6.4*
5	6/11/84	1120	1.2	13.0	27.3	6.8	6.3*
6	6/11/84	1133	2.0	13.8	28.0	6.6	6.3*
7	6/11/84	1148	3.0	16.7	26.5	5.6	6.0*
8	6/11/84	1210	2.0	16.8	27.0	5.6	6.1*
9	6/11/84	1340	5.0	16.3	25.2	4.1	6.6
10	6/11/84	1511	4.0	13.7	27.2	4.7	6.7
10A	6/11/84	1408	1.2	17.0	29.8	6.8	7.6
10B	6/11/84	1424	3.0	16.6	29.9	7.0	7.6
11	6/11/84	1440	2.0	11.9	30.3	7.0	7.3
12	6/11/84	1533	3.0	16.6	29.5	6.6	7.5
13	6/11/84	1600	2.5	12.7	28.9	5.4	6.9
14	6/12/84	1240	3.5	11.8	27.3	6.4	7.2
15	6/12/84	0925	3.0	14.8	26.9	6.4	7.3
16B	6/12/84	1000	4.0	11.0	27.0	6.3	7.2
17	6/12/84	1122	1.0	22.8	26.5	5.4	7.0

<sup>1</sup>Problems were experienced with the operation of pH meters on both days. Values identified with an asterisk are unusually low and probably represent erroneous readings.

TABLE 8. WATER QUALITY AT EXPOSURE PANEL STATIONS  
JULY, 1984

Station	Date	Time	Depth in Feet	Salinity o/∞	Temperature (°C)	O <sub>2</sub> (mg/l)	pH
1	7/9/84	0906	5.0	27.0	19.0	6.9	7.8
2	7/9/84	0942	5.0	26.8	22.5	6.2	7.6
3	7/9/84	1015	1.5	19.0	22.9	6.1	7.5
4	7/9/84	1037	3.5	20.0	23.5	6.0	7.2
4A	7/9/84	1059	2.0	20.3	24.5	5.6	7.3
5	7/9/84	1117	1.0	8.4	22.0	7.2	6.9
6	7/9/84	1133	2.0	7.6	21.5	7.4	6.7
7	7/9/84	1149	3.5	14.0	24.2	6.0	7.0
8	7/9/84	1210	2.0	13.8	24.8	5.6	7.0
9	7/9/84	1232	5.5	16.0	24.2	5.4	7.1
10	7/9/84	1434	4.0	14.0	24.5	5.2	7.1
10A	7/9/84	1339	1.0	16.5	25.5	8.2	8.0
10B	7/9/84	1358	3.0	16.8	25.2	7.6	7.8
11	7/9/84	1410	1.0	13.8	24.2	8.3	7.8
12	7/9/84	1548	3.0	15.0	25.3	9.6	8.3
13	7/9/84	1458	2.5	11.8	24.2	7.2	7.1
14	7/9/84	1521	3.0	13.6	24.5	8.4	7.9
15	7/10/84	0858	4.0	10.7	23.3	7.3	7.0
16B	7/10/84	0930	4.0	11.2	23.5	7.0	7.2
17	7/10/84	1013	1.0	23.0	23.1	3.4	7.3

TABLE 9. CONDITION OF GONADS OF TEREDINID BORERS  
REMOVED FROM EXPOSURE PANELS IN BARNEGAT  
BAY FROM APRIL THROUGH JUNE, 1984

EA=Early active; LA=Late active; R=Ripe; PS=Partially  
spawned; S=Spent; M=Male; F=Female; H=Hermaphrodite

Specimen No.	Station	Month Removed	No. Months Exposed	Species	Sex	Gonad Condition	Comments
1373 a	7	Apr 84	12	<u>Bankia</u> <u>gouldi</u>	M	S	Special panel
b				<u>Bankia</u> <u>gouldi</u>	M	S	
c				<u>Bankia</u> <u>gouldi</u>			No discernable gonad
1374 a	12	Apr 84	12	<u>Bankia</u> <u>gouldi</u>			Special panel; no discernable gonad
b				<u>Bankia</u> <u>gouldi</u>	M	S	
c				<u>Bankia</u> <u>gouldi</u>			No discernable gonad
1375 a	17	Apr 84	12	<u>Teredo</u> <u>navalis</u>	F	PS	Special panel; cytolysis of gonad
b				<u>Teredo</u> <u>navalis</u>	M	EA	Necrotic
c				<u>Teredo</u> <u>navalis</u>			No discernable gonad; necrotic
d				<u>Teredo</u> <u>navalis</u>	M	PS	
e				<u>Teredo</u> <u>navalis</u>	M	LA	
f				<u>Teredo</u> <u>navalis</u>	M	PS	Necrotic
g				<u>Teredo</u> <u>navalis</u>	H	S	Necrotic
h				<u>Teredo</u> <u>navalis</u>	F	PS	
i				<u>Teredo</u> <u>navalis</u>	F	R	Cytolysis
j				<u>Teredo</u> <u>navalis</u>	F	PS	Cytolysis
k				<u>Teredo</u> <u>navalis</u>	H	S	

TABLE 9. (Continued)

Specimen No.	Station	Month Removed	No. Months Exposed	Species	Sex	Gonad Condition	Comments
1376 a	11	Apr 84	12	<u>Bankia gouldi</u>	M	EA	Special panel
b				<u>Bankia gouldi</u>	M	EA	
c				<u>Bankia gouldi</u>	M	EA	
d				<u>Bankia gouldi</u>			No discernable gonad
e				<u>Bankia gouldi</u>	M	EA	
f				<u>Bankia gouldi</u>	M	EA	
g				<u>Bankia gouldi</u>	M	EA	
h				<u>Bankia gouldi</u>	M	EA	
i				<u>Bankia gouldi</u>	F	EA	
j				<u>Bankia gouldi</u>	M	EA	
k				<u>Bankia gouldi</u>			No discernable gonad
l				<u>Bankia gouldi</u>	M	EA	Cytolysis
m				<u>Bankia gouldi</u>	M	EA	Cytolysis
1377 a	15	May 84	12	<u>Bankia gouldi</u>			Special panel; no discernable gonad
b				<u>Bankia gouldi</u>			No discernable gonad
c				<u>Bankia gouldi</u>	M	LA	
1378 a	15	May 84	12	<u>Teredo navalis</u>	M	LA	Special panel
b				<u>Teredo navalis</u>	F	R	
1379	16B	May 84	12	<u>Bankia gouldi</u>	M	EA	Special panel
1380	14	May 84	12	<u>Teredo navalis</u>	F	R	Special panel

TABLE 9. (Continued)

Specimen No.	Station	Month Removed	No. Months Exposed	Species	Sex	Gonad Condition	Comments
1381 a	8	May 84	12	<u>Bankia gouldi</u>	M	LA	Special panel
b				<u>Bankia gouldi</u>	M	LA	
c				<u>Bankia gouldi</u>	F	S	No discernable gonad
d				<u>Bankia gouldi</u>			
1382 a	14	May 84	12	<u>Bankia gouldi</u>	M	LA	Special panel
b				<u>Bankia gouldi</u>	M	EA	
c				<u>Bankia gouldi</u>	F	EA	
d				<u>Bankia gouldi</u>	M	S	No discernable gonad
e				<u>Bankia gouldi</u>			
f				<u>Bankia gouldi</u>	M	EA	
g				<u>Bankia gouldi</u>	M	EA	
h				<u>Bankia gouldi</u>	M	LA	
i				<u>Bankia gouldi</u>	F	EA	
j				<u>Bankia gouldi</u>	M	EA	
k				<u>Bankia gouldi</u>	M	EA	
l				<u>Bankia gouldi</u>	M	LA	
m				<u>Bankia gouldi</u>	M	LA	
n				<u>Bankia gouldi</u>	M	LA	
o				<u>Bankia gouldi</u>	M	LA	
1383 a	7	May 84	12	<u>Bankia gouldi</u>	M	LA	Special panel; no discernable gonad
b				<u>Bankia gouldi</u>			No discernable gonad
c				<u>Bankia gouldi</u>			No discernable gonad
d				<u>Bankia gouldi</u>			No discernable gonad



TABLE 9. (Continued)

Specimen No.	Station	Month Removed	No. Months Exposed	Species	Sex	Gonad Condition	Comments
1384 a	10B	May 84	12	<u>Bankia gouldi</u>			Special panel; no discernable gonad
b				<u>Bankia gouldi</u>	M	LA	
1385 a	11	May 84	12	<u>Bankia gouldi</u>	H	LA	Special panel
b				<u>Bankia gouldi</u>	M	EA	
1386 a	12	May 84	12	<u>Bankia gouldi</u>	M	LA	Special panel
b				<u>Bankia gouldi</u>			No discernable gonad
c				<u>Bankia gouldi</u>	M	EA	
d				<u>Bankia gouldi</u>	M	LA	
1387 a	11	May 84	12	<u>Bankia gouldi</u>	H	EA	Special panel
b				<u>Bankia gouldi</u>	M	LA	
c				<u>Bankia gouldi</u>	M	LA	
d				<u>Bankia gouldi</u>	M	PS	
e				<u>Bankia gouldi</u>	M	LA	
f				<u>Bankia gouldi</u>	M	LA	
g				<u>Bankia gouldi</u>	M	EA	
h				<u>Bankia gouldi</u>	M	LA	
i				<u>Bankia gouldi</u>	M	EA	
j				<u>Bankia gouldi</u>	M	EA	
k				<u>Bankia gouldi</u>	M	LA	
l				<u>Bankia gouldi</u>	M	LA	
1388 a	7	May 84	12	<u>Bankia gouldi</u>	M	LA	Special panel
b				<u>Bankia gouldi</u>	M	EA	
c				<u>Bankia gouldi</u>	M	LA	
d				<u>Bankia gouldi</u>			No discernable gonad

TABLE 9. (Continued)

Specimen No.	Station	Month Removed	No. Months Exposed	Species	Sex	Gonad Condition	Comments
1389 a	17	May 84	12	<u>Teredo navalis</u>	F	LA	Special panel
b				<u>Teredo navalis</u>	M	EA	
1390 a	17	May 84	12	<u>Bankia gouldi</u>			Special panel; no discernable gonad
b				<u>Bankia gouldi</u>	M	EA	
1391	12	May 84	12	<u>Bankia gouldi</u>	M	EA	Special panel
1392 a	14	May 84	11	<u>Bankia gouldi</u>	F	EA	Special panel
b				<u>Bankia gouldi</u>	M	LA	
c				<u>Bankia gouldi</u>	H	LA	
d				<u>Bankia gouldi</u>	M	LA	
e				<u>Bankia gouldi</u>	M	LA	
f				<u>Bankia gouldi</u>	M	EA	
g				<u>Bankia gouldi</u>	M	LA	
h				<u>Bankia gouldi</u>	M	EA	
i				<u>Bankia gouldi</u>	M	LA	
j				<u>Bankia gouldi</u>	M	LA	
1393 a	11	May 84	11	<u>Bankia gouldi</u>	M	LA	Special panel
b				<u>Bankia gouldi</u>	M	EA	
c				<u>Bankia gouldi</u>	M	LA	
d				<u>Bankia gouldi</u>			No discernable gonad
e				<u>Bankia gouldi</u>	M	EA	
f				<u>Bankia gouldi</u>	H	EA	
g				<u>Bankia gouldi</u>	M	LA	
h				<u>Bankia gouldi</u>	M	EA	
i				<u>Bankia gouldi</u>	H	LA	
j				<u>Bankia gouldi</u>	M	EA	

TABLE 9. (Continued)

Specimen No.	Station	Month Removed	No. Months Exposed	Species	Sex	Gonad Condition	Comments
1394 a	17	May 84	12	<u>Teredo</u> <u>navalis</u>	M	PS	Special panel
b				<u>Teredo</u> <u>navalis</u>	F	R	
c				<u>Teredo</u> <u>navalis</u>	F	R	
d				<u>Teredo</u> <u>navalis</u>	M	LA	
e				<u>Teredo</u> <u>navalis</u>	M	PS	
f				<u>Teredo</u> <u>navalis</u>	H	PS	
g				<u>Teredo</u> <u>navalis</u>	M	PS	
h				<u>Teredo</u> <u>navalis</u>	F	R	
i				<u>Teredo</u> <u>navalis</u>	M	PS	
j				<u>Teredo</u> <u>navalis</u>	H	PS	
1395	17	May 84	12	<u>Bankia</u> <u>gouldi</u>	M	EA	Special panel
1396 a	8	Jun 84	12	<u>Bankia</u> <u>gouldi</u>	M	R	Special panel
b				<u>Bankia</u> <u>gouldi</u>	H	R	
c				<u>Bankia</u> <u>gouldi</u>	M	R	
1397 a	11	Jun 84	12	<u>Bankia</u> <u>gouldi</u>	M	LA	Special panel
b				<u>Bankia</u> <u>gouldi</u>	F	PS	
1398 a	7	Jun 84	12	<u>Bankia</u> <u>gouldi</u>	M	LA	Special panel No discernable gonad
b				<u>Bankia</u> <u>gouldi</u>			
c				<u>Bankia</u> <u>gouldi</u>	M	LA	
d				<u>Bankia</u> <u>gouldi</u>	F	PS	

TABLE 9. (Continued)

Specimen No.	Station	Month Removed	No. Months Exposed	Species	Sex	Gonad Condition	Comments
1399	11	Jun 84	12	<u>Teredo navalis</u>	F	LA	Special panel
1400 a	15	Jun 84	12	<u>Bankia gouldi</u>	M	PS	Special panel
b				<u>Bankia gouldi</u>	F	PS	
1401	13	Jun 84	12	<u>Bankia gouldi</u>	M	PS	Special panel
1402	12	Jun 84	12	<u>Bankia gouldi</u>	F	PS	Special panel
1403 a	12	Jun 84	12	<u>Bankia gouldi</u>			Special panel; no discernable gonad
b				<u>Bankia gouldi</u>			No discernable gonad
c				<u>Bankia gouldi</u>			No discernable gonad
1404	2	Jun 84	12	<u>Teredo navalis</u>	F	PS	Special panel
1405	17	Jun 84	12	<u>Teredo navalis</u>	F	R	Special panel; necrotic
1406 a	17	Jun 84	12	<u>Teredo navalis</u>	M	PS	Special panel
b				<u>Teredo navalis</u>	F	PS	
c				<u>Teredo navalis</u>	H	PS	
d				<u>Teredo navalis</u>	M	PS	Necrotic
e				<u>Teredo navalis</u>	M	PS	
f				<u>Teredo navalis</u>	H	PS	
g				<u>Teredo navalis</u>	M	PS	
h				<u>Teredo navalis</u>	F	PS	

TABLE 9. (Continued)

Specimen No.	Station	Month Removed	No. Months Exposed	Species	Sex	Gonad Condition	Comments
1406 (Continued)							
i				<u>Teredo</u> <u>navalis</u>	M	PS	
j				<u>Teredo</u> <u>navalis</u>	F	R	
k				<u>Teredo</u> <u>navalis</u>	F	PS	
l				<u>Teredo</u> <u>navalis</u>	F	LA	
m				<u>Teredo</u> <u>navalis</u>	F	R	
n				<u>Teredo</u> <u>navalis</u>	M	PS	
o				<u>Teredo</u> <u>navalis</u>	M	PS	
p				<u>Teredo</u> <u>navalis</u>	M	PS	
q				<u>Teredo</u> <u>navalis</u>	F	PS	
r				<u>Teredo</u> <u>navalis</u>	M	PS	
s				<u>Teredo</u> <u>navalis</u>	H	PS	
t				<u>Teredo</u> <u>navalis</u>	F	R	
u				<u>Teredo</u> <u>navalis</u>	M	PS	
v				<u>Teredo</u> <u>navalis</u>	M	PS	
1407	16B	June 84	12	<u>Bankia</u> <u>gouldi</u>	M	LA	Special panel
1408 a	7	Jun 84	12	<u>Bankia</u> <u>gouldi</u>	M	R	Special panel
b				<u>Bankia</u> <u>gouldi</u>	M	PS	
c				<u>Bankia</u> <u>gouldi</u>			No discernable gonad
d				<u>Bankia</u> <u>gouldi</u>	M	PS	



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