#95019

e-MAIL POST-CRUISE REPORT

1. SHIP NAME (Parent vessel)/SUBMERSIBLE/OWNER-OPERATOR:
   Xman Ek, USGS StP

2. PRE-CRUISE SERIAL # AND/OR CRUISE-LEG: XMEK95019

3. PROJECT # AND NAME: FY95# 61612 Florida Study(Bothner)

4. FUNDING AGENCY: South Florida Water Management District

5. CONTRACT (If applicable):

6. AREA OF OPERATIONS: Florida Bay

7. DATES AND PORTS OF CALL: 2/21/95-2/26/95 day trips from Key Largo
   2/21/95-3/2/95 lab work in Key Largo

8. CHIEF SCIENTIST(S): B. Halley, M. Bothner, M. tenBrink

9. SCIENTIFIC PARTY (Names,affiliations,cruise duties):

Mike Bothner	USGS WH	coring, X-raying, sectioning cores
Michael Casso	USGS WH	recording station information, X-raying, sectioning cores
Peter Gill	USGS WH	recording station information, X-raying, sectioning cores
Bob Halley	USGS StP	coring, X-raying
Chuck Holmes	USGS Den	coring, sectioning cores
Marcy Marot	USGS Den	recording station information, coring, sectioning cores
Nancy Morehead	NOAA	coring, sectioning cores
John Robbins	NOAA	coring, sectioning cores
Dave Rudnick	SFWMD	coring, sectioning cores,
Assistant	SFWMD	coring, collecting SFWMD Samples
Gene Shinn	USFGS StP	navigation, boat operator

10. SHIP'S CAPTAIN (and affiliation): Gene Shinn (USGS StP)

11. PURPOSE OF CRUISE: Collect cores for Pb210 age dating and environmental geochemistry.

12. NAVIGATION TECHNIQUES: hand held GPS

13. SCIENTIFIC EQUIPMENT: Piston coring equipment,
core head from the hydraulically damped gravity co
rer,
refractometer,
conductivity meter,
core extruder,
GPS

14. TABULATED INFORMATION:

STATION INFORMATION:

Station Name	Latitude deg-min N	Longitude deg-min W	Station Water Depth m	Station No.	Number and Type of samples	Date	Time	Latitude
Purjoe Key	8.043	80 - 28.423	.61	12	4 long push cores	2/21/95	3:05 PM	25
Trout Creek	12.546	80 - 31.992	.76	13	4 short push cores	2/22/95	11:37 AM	25
Little Madiera Bay	10.646	80 - 37.443	.51	14	4 long push cores	2/22/95	2:24 PM	25
S. Pass Key	8.855	80 - 34.268	.25	15	1 short push core	2/23/95	11:38 AM	25
Crocodile Pt.	8.321	80 - 43.683	.61	16	4 short push cores	2/23/95	2:20 AM	25
Pass Key	8.868	80 - 34.491	.25	17	4 short piston cores, 4 push cores	2/24/95	12:05 PM	25
North Side of Russel Bank	3.981	80 - 37.468	.61	18	2 long piston cores, 1 push cores	2/24/95	2:48 PM	25
South Side of Russel Bank	3.831	80 - 37.486	.51	19	2 long piston cores, 1 push core	2/24/95	4:10 PM	25
Bob Allen Key	1.362	80 - 39.477	.37	20	4 long piston cores, 1 short core	2/25/95	12:36 PM	25
Rock Harbor	4.904	80 - 27.629		X1	1 short core	2/25/95	3:57 PM	25
East End Cross Bank	59.992	80 - 32.974		X2	1 short core	2/25/95	2:50 PM	24
Sunset Cove	5.207	80 - 27.369		X3	1 short core	2/25/95	4:13 PM	25
Community Harbor Tavernier	0.806	80 - 31.231		X4	1 short core	2/25/95	3:14 PM	25
NURC Canal				X5				

1 short core

15. PAGE-SIZE TRACKCHART (including station & line #'s)

16. SUBMITTED BY AND DATE: Peter Gill 3/22/96

Station Name eg W lon	Core ID Type of Core	Date	Length (cm)	Core deg N lat Fate	d
Purjoe Key 0 - 28.423	12A Long Piston	2/21/95	118	25 - 8.043 X-rayed	8
Purjoe Key 0 - 28.423	12B Long Piston	2/22/95	117.5	25 - 8.043 X-rayed,sectioned	8
Purjoe Key 0 - 28.423	12C Long Piston	2/22/95	114	25 - 8.043 X-rayed	8
Purjoe Key 0 - 28.423	12D Long Piston	2/22/95	114	25 - 8.043 X-rayed,sectioned	8
Trout Creek 0 - 31.992	13A Short Piston	2/22/95	78.9	25 - 12.546 X-rayed,sectioned	8
Trout Creek 0 - 31.992	13B Short Piston	2/22/95	63.5-65.5	25 - 12.546 X-rayed	8
Trout Creek 0 - 31.992	13C Short Piston	2/23/95	54-56	25 - 12.546 X-rayed	8
Trout Creek 0 - 31.992	13D Short Piston	2/23/95		25 - 12.546 Core Discarded	8
Trout Creek 0 - 31.992	13E Short Piston	2/23/95	63.5-65.0	25 - 12.546 X-rayed	8
Little Madiera Bay 0 - 37.443	14A Long Piston	2/23/95	130-137	25 - 10.646 X-rayed	8
Little Madiera Bay 0 - 37.443	14B Long Piston	2/23/95	129	25 - 10.646 X-rayed, sectioned	8
Little Madiera Bay 0 - 37.443	14C Long Piston	2/24/95	129.5-131	25 - 10.646 X-rayed	8
Little Madiera Bay 0 - 37.443	14D Long Piston	2/24/95	128.2	25 - 10.646 X-rayed	8
S. Pass Key 0 - 34.268	15A Push Core	2/24/95	55	25 - 8.855 opened on board an d discarded	8
Crocodile Pt. 0 - 43.683	16A Long Piston	2/24/95	105	25 - 8.321 X-rayed	8

```
Crocodile Pt.        16B        2/24/95        25 - 8.321        8
0 - 43.683        Long Piston        109        X-rayed        sec
tioned
Crocodile Pt.        16C        2/24/95        25 - 8.321        8
0 - 43.683        Long Piston        99        X-rayed
Crocodile Pt.        16D        2/24/95        25 - 8.321        8
0 - 43.683        Long Piston        116        X-rayed
Pass Key             17A        2/24/95        25 - 8.868        8
0 - 34.491        Short Piston        107        X-rayed
Pass Key             17B        2/24/95        25 - 8.868        8
0 - 34.491        Short Piston        105
Pass Key             17C        2/24/95        25 - 8.868        8
0 - 34.491        Short Piston        108        X-rayed
Pass Key             17D        2/24/95        25 - 8.868        8
0 - 34.491        Short Piston        107        X-rayed, sectioned

Pass Key             17E        2/24/95        25 - 8.868        8
0 - 34.491        Short Push Core    120        X-rayed
Pass Key             17F        2/24/95        25 - 8.868        8
0 - 34.491        Short Push Core    111        X-rayed
Pass Key             17G        2/24/95        25 - 8.868        8
0 - 34.491        Short Push Core    111        X-rayed, sectioned

Pass Key             17H        2/25/95        25 - 8.868        8
0 - 34.491        Short Push Core    115.6
N. Russel Bank       18A        2/25/95        25 - 3.981        8
0 - 37.468        Long Piston        140        X-rayed, sectioned

N. Russel Bank       18B        2/25/95        25 - 3.981        8
0 - 37.468        Long Piston        104        X-rayed
N. Russel Bank       18C        2/25/95        25 - 3.981        8
0 - 37.468        Long Push Core     187        X-rayed, sectioned

N. Russel Bank    Infauna Cores 2/25/95
                  2.5in dia, 2 ft long          SFWMD
S. Russel Bank       19A        2/25/95        25 - 3.831        8
0 - 37.486        Long Piston        151        X-rayed
S. Russel Bank       19B        2/25/95        25 - 3.831        8
0 - 37.486        Long Piston        149        X-rayed, sectioned

S. Russel Bank       19C        2/25/95        25 - 3.831        8
0 - 37.486        Long Push Core     161        X-rayed, sectioned

S. Russel Bank 4 Infauna Cores 2/25/95
                  2.5in dia, 2 ft long          SFWMD
Bob Allen Key        20A        2/25/95        25 - 1.362        8
0 - 39.477        Long Piston        192.5      X-rayed
Bob Allen Key        20B        2/25/95        25 - 1.362        8
0 - 39.477        Long Piston        192.0      X-rayed
Bob Allen Key        20C        2/25/95        25 - 1.417        8
0 - 39.53         Long Piston        192.6      X-rayed, sectioned
```

```
Bob Allen Key        20D        2/25/95          25 - 1.417         8
0 - 39.53          Long Piston        191.0       X-rayed, sectioned

Bob Allen Key        20E        2/25/95          25 - 1.417         8
0 - 39.53          HDC 2ft             27.6       sectioned, analyze
d for C. perfringens
Bob Allen Key  4 Infauna Cores 2/25/95
                   2.5in dia, 2 ft long           SFWMD
Rock Harbor          X1         2/25/95          25 - 4.904         8
0 - 27.629         HDC 2ft             29         sectioned, analyze
d for C. perfringens
East End Cross Bank  X2         2/25/95          24 - 59.992
80 - 32.974        HDC 2ft             17.1       sectioned, analyze
d for C. perfringens
Sunset Cove          X3         2/25/95          25 - 5.207         8
0 - 27.369         HDC 2ft             32.5       sectioned, analyze
d for C. perfringens
Com. HarborTavernier X4         2/25/95          25 - 0.806         8
0 - 31.231         HDC 2ft             26         sectioned, analyze
d for C. perfringens
NURC Canal           X5         2/25/95
                   HDC 2ft              3.5       sectioned, analyze
d for C. perfringens
```