

Data Sheet Green Harbor River Study

New Moon to

Date 7/29/03 Time 10 AM PM Tide Ocean 12:21 PM high

Left 12:50 PM low 6:06 AM

Height of water above sea level -1 1/2 ~ -1 1/4 when left at 12:50

Water entering river entire time

Location of testing most to left of dike facing east;
pH in a variety of places

Air temperature 75° F Water temperature (surface) by dike 72° F 68° F by dike
(river channel)

Water temperature (1 meter deep) by dike 64° F

Specific gravity ((20 degrees C) 1.016 Salinity by chart 22 ppt - 27 ppt (1 m)
1.020 incoming tide 1.024 1 m. deep by dike taken from abt

pH (surface) 7.6
pH 7.8 depth 1 m.

Nitrate 0 Nitrite 0

pH by island shore surface 8.6 (an anomaly) sunken boat - evaporates salt left behind?

Dissolved oxygen 7.6

Secchi disk 1.5 m. at dike
1.75 50 yd. from dike

General observations: Water clarity fairly turbid on arrival
Odor no obvious Water color appears brownish to side
Sediment sample none taken green
uniform

Birds: 7 heron, cormorants, swans

Biological data: Dip, seine nets

Plankton sample (see other pages) none taken

Macroinvertebrates numerous amphipods caught in dip nets ~ 9

Invertebrates barnacles, 1 baby mussel, periwinkles, 7 green crabs, 27 shrimp, 1 damselfly

Fish 90 silvery species, 32 mummichog/killifish (more killifish), 1 ? hawt, 1 American eel, 1 glass eel

Comments: Rained last night and this AM; evident in the amount of fresh water in river

Although today is a spring tide, the water level wasn't particularly high. Couldn't stay long enough to

green crab

- 6.5 cm male greenish
- 3.5 cm fem
- 5.7 cm fem
- 4.4 cm fem
- 4.6 cm fem
- 4.5 cm fem ground
- 3.4 cm fem

grass shrimp / - other shrimp sand?

| ### ###
 11 (12) | ## (15)

Mummichog / killifish

|| (32)
 ### ### ###

Baby mussel

1 attached to rock

mini barnacles
 didn't count

Fish most abundant
 Silvery, thin? 2 dorsal fins; first spiny

possibly 1 log
 horizontal dark line on sides near top

 ### ### ### ### ### ### ### ### ### (90)

see sketches

damselfly

1

4 swan - they left
 7 heron (blue & grey)

Un ID fish 4
 w/ orange / gray striped dorsal fin
 more rounded fish
 long dorsal fin or 2 right next to each other

coronant or wren
 herring gull

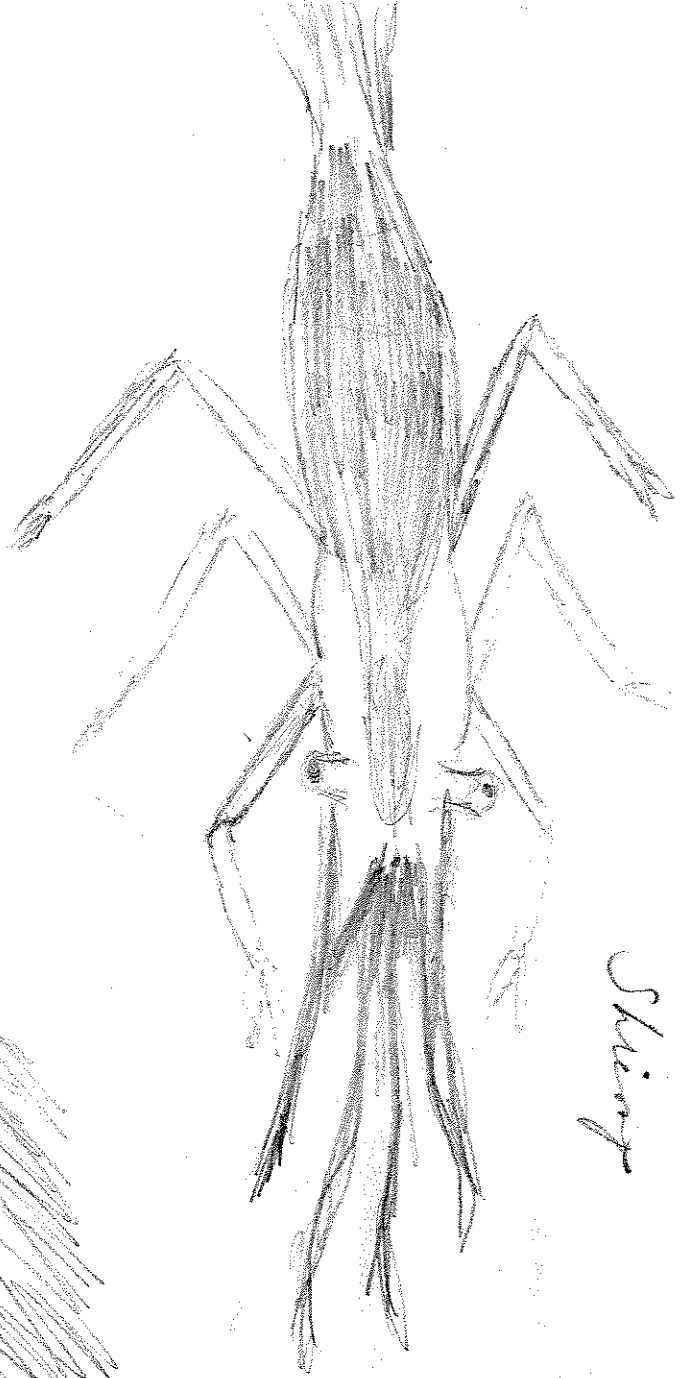
Did a third seine but didn't see anything new and released without counting

2003 JULY-AUGUST 2003

| Morning | | BOSTON | Afternoon | |
|---------|-------|-----------|-----------|----|
| HIGH | 10:55 | SUNDAY | HIGH | 10 |
| Height | 8.5 | 27 | Height | 1 |
| LOW | 4:39 | | Height | 8 |
| Height | 0.8 | | Height | 8 |
| Sunrise | 5:32 | MONDAY | Height | 11 |
| HIGH | 11:39 | 28 | Height | 11 |
| Height | 8.8 | | Height | 5 |
| LOW | 5:23 | | Height | 8 |
| Height | 0.4 | TUESDAY | Height | 12 |
| Sunrise | 5:33 | 29 | Height | 9 |
| HIGH | --- | | Height | 6 |
| Height | --- | | Height | 8 |
| LOW | 6:06 | NEW MOON | Height | 8 |
| Height | 0.1 | WEDNESDAY | Height | 1 |
| Sunrise | 5:34 | 30 | Height | 9 |
| HIGH | 12:25 | | Height | 6 |
| Height | 10.6 | | Height | 0 |
| LOW | 6:48 | THURSDAY | Height | 8 |
| Height | -0.2 | 31 | Height | 1 |
| Sunrise | 5:35 | | Height | 9 |
| HIGH | 1:08 | | Height | 7 |
| Height | 10.7 | FRIDAY | Height | 0 |
| LOW | 7:30 | 1 | Height | 8 |
| Height | -0.4 | | Height | 0 |
| Sunrise | 5:36 | | Height | 8 |
| HIGH | 1:52 | SATURDAY | Height | 3 |
| Height | 10.8 | 2 | Height | 10 |
| LOW | 8:13 | | Height | 9 |
| Height | -0.5 | | Height | 0 |
| Sunrise | 5:37 | JULY-AUG | Height | 8 |

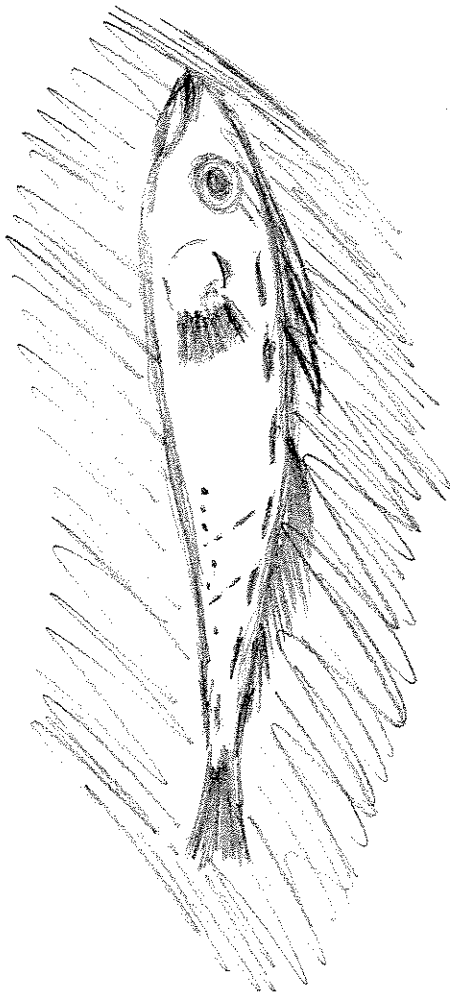
Eastern Standard Time - Corrected For Daylight Savings Time

7/29/03



Shrimp

The most abundant fish caught today



Shrimp, silver scales

Thin - dorsal fin
Flat - lateral line

per

7/29/03

gr.

woodpecker

downy fin

striped woodpecker

woodpecker



Cunner?
or
rockfish

Only 1 of those caught