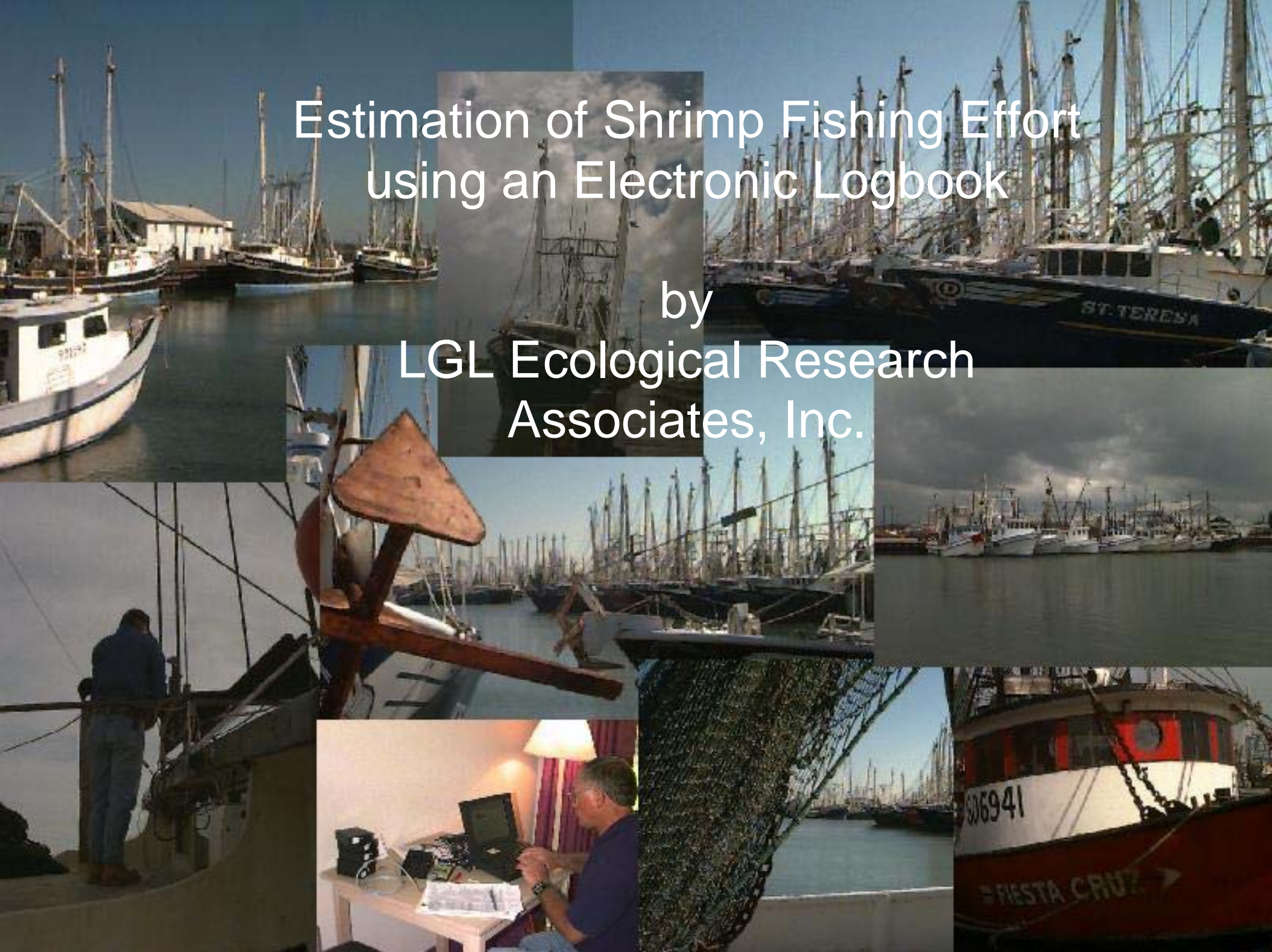


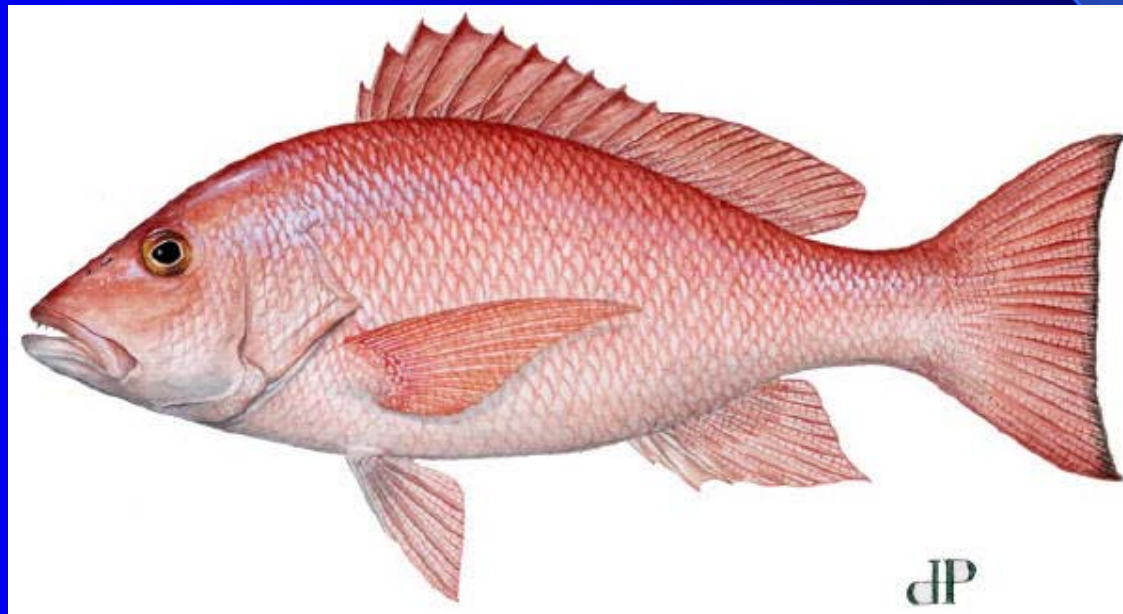
Estimation of Shrimp Fishing Effort using an Electronic Logbook

by
LGL Ecological Research
Associates, Inc.

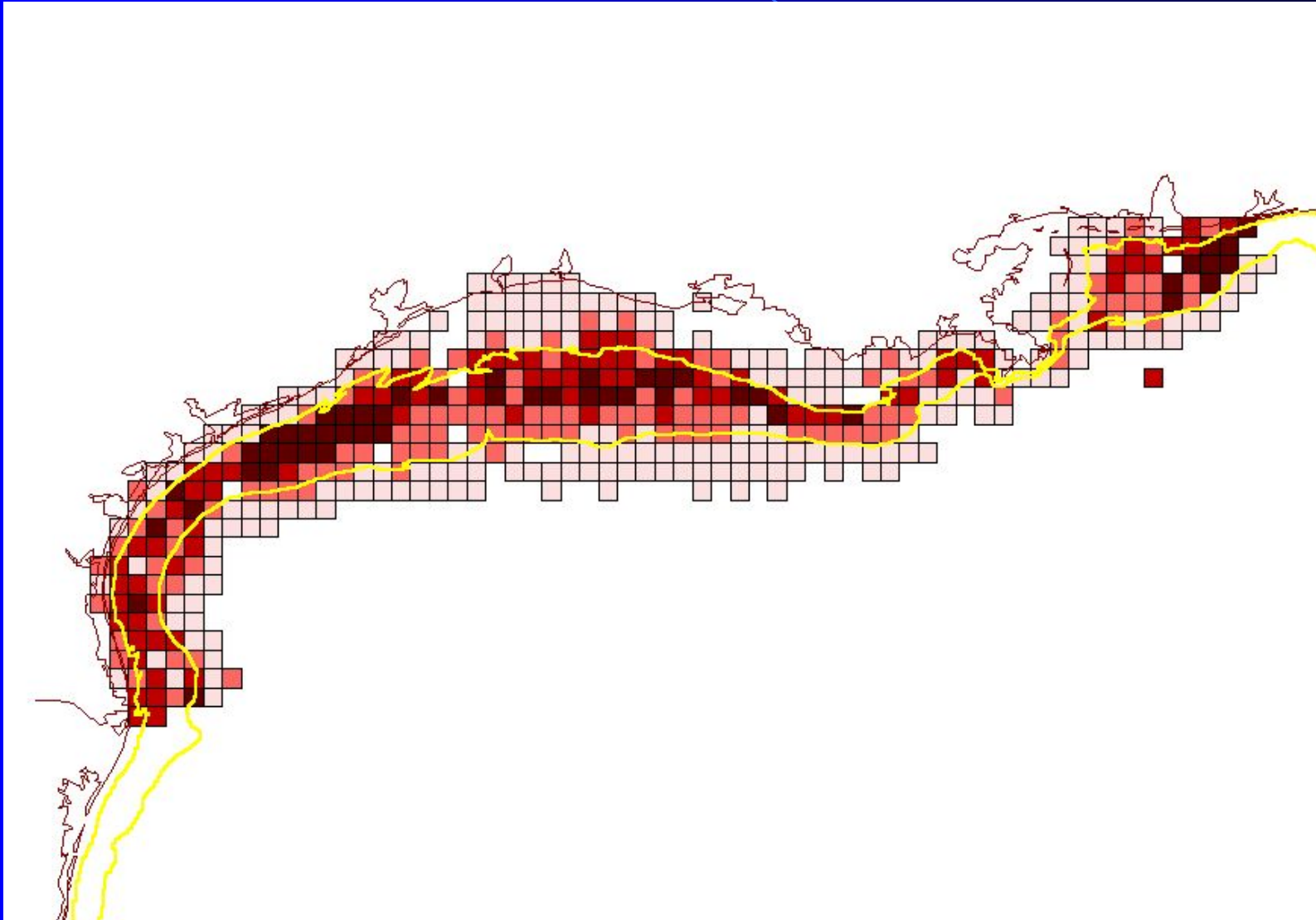


Why is effort important --

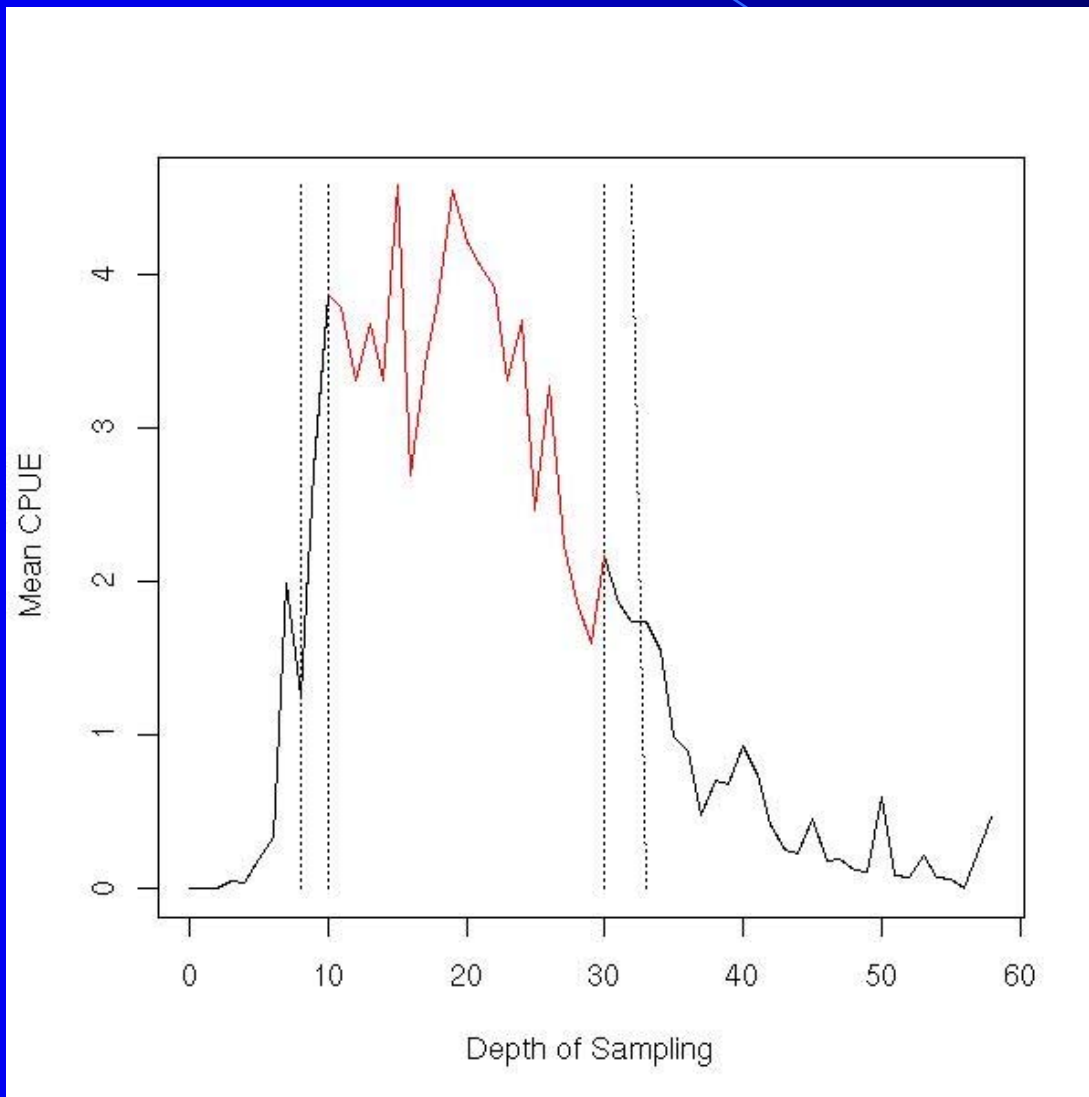
Bycatch



Red Snapper Habitat



Red Snapper Depths



ID Statzones Month

113 -- 18-20 -- 7

Start Date

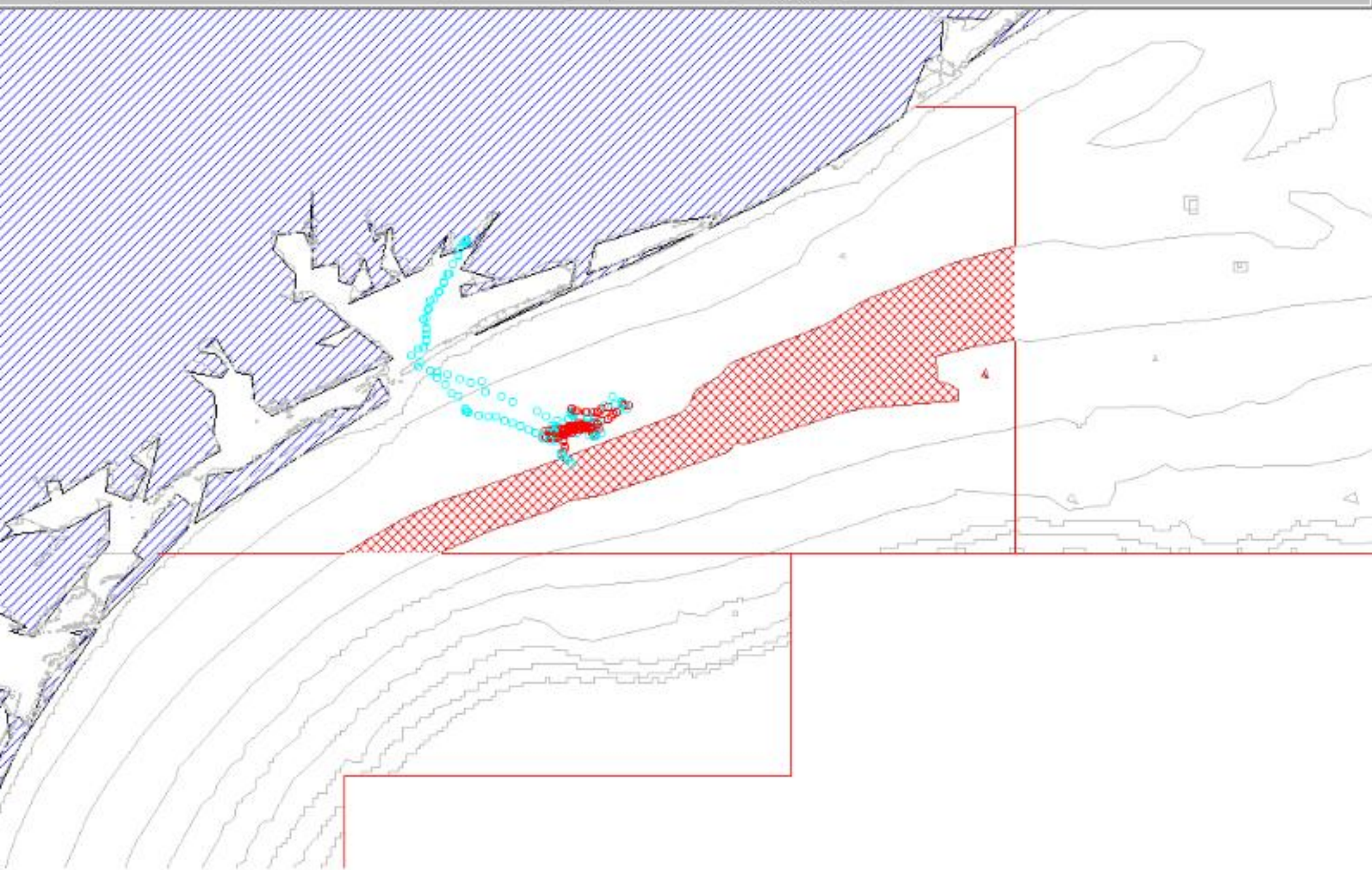
7/3/00

Tow Date

7/29/00



AM



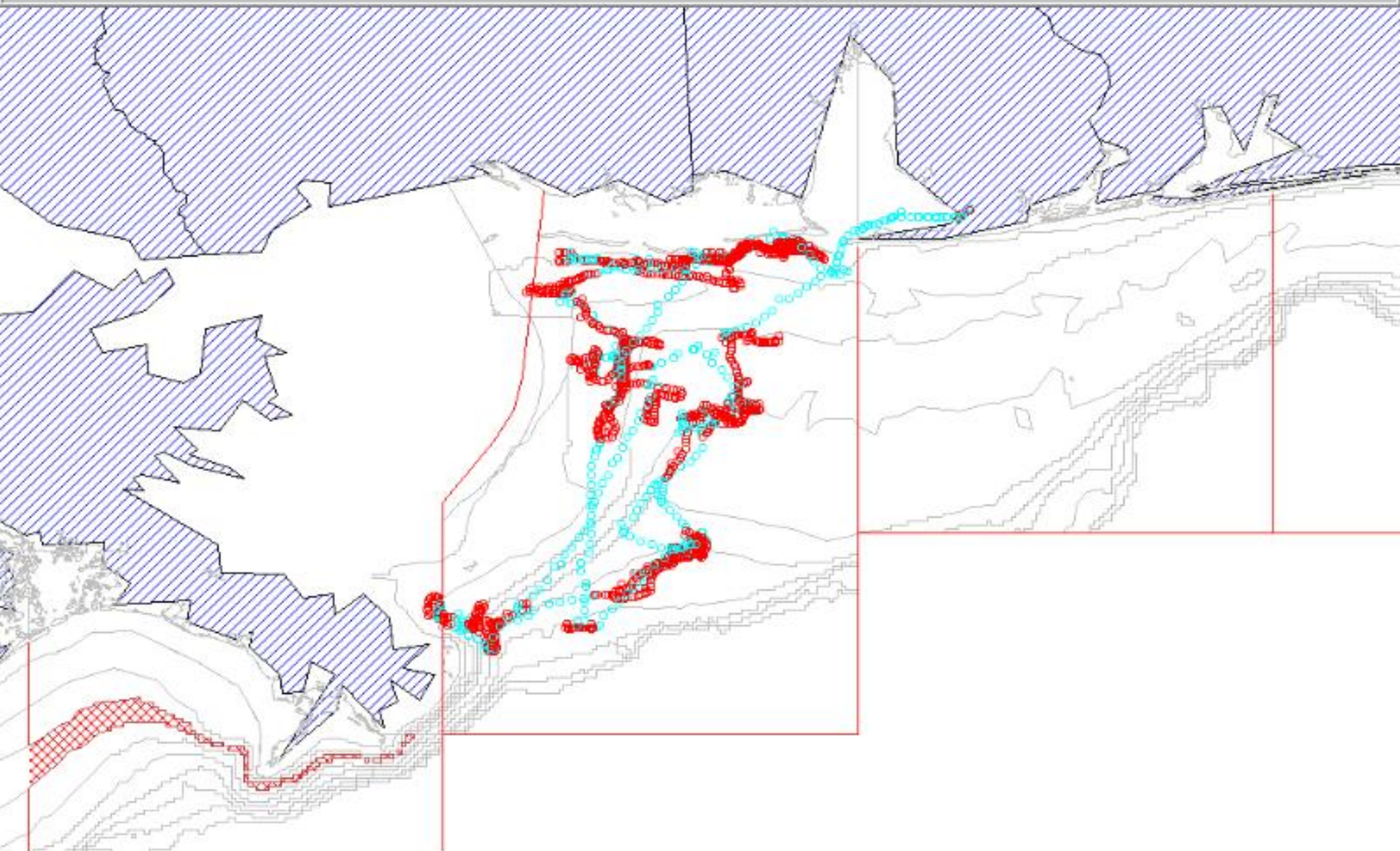
ID Statzones Month
105 -- 11-12 -- 11

Start Date
11/27/00

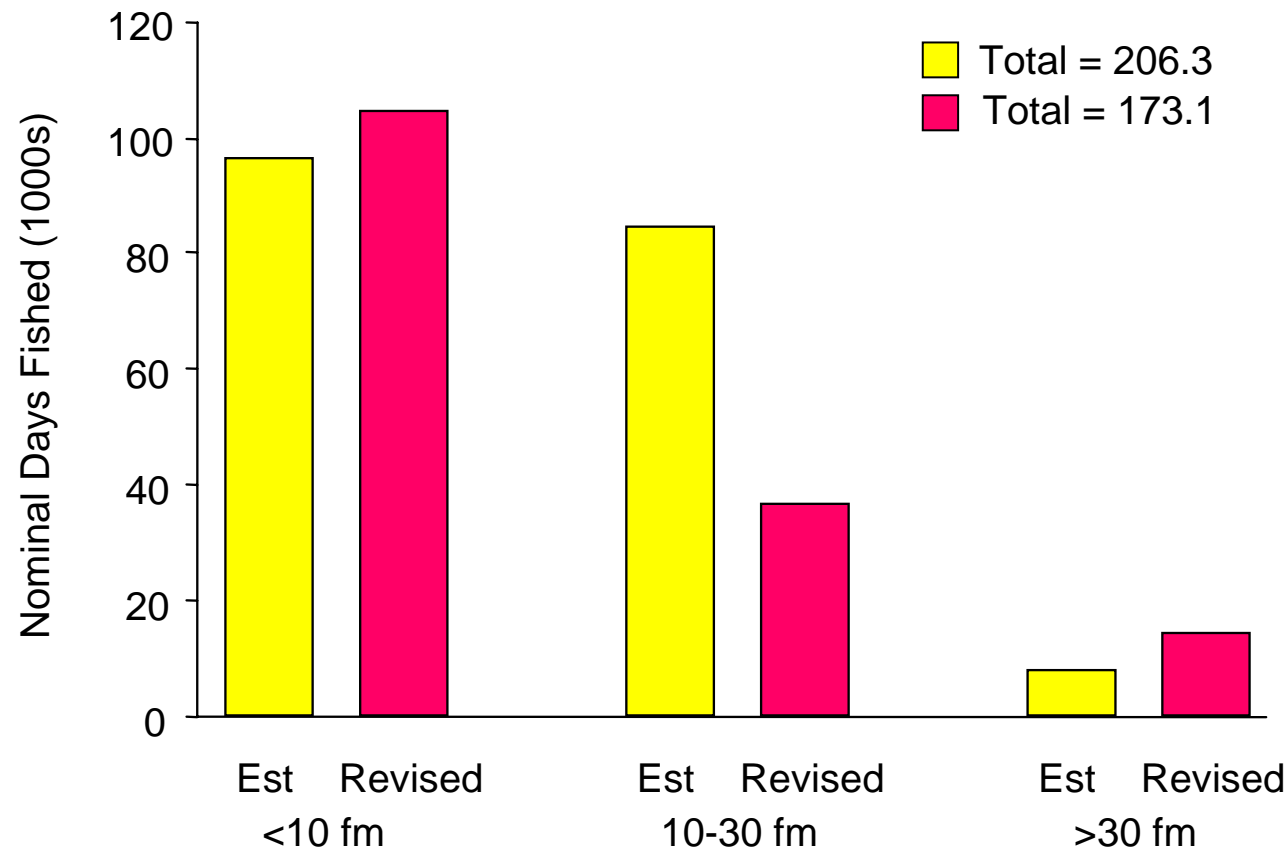
Tow Date
12/13/00



AM

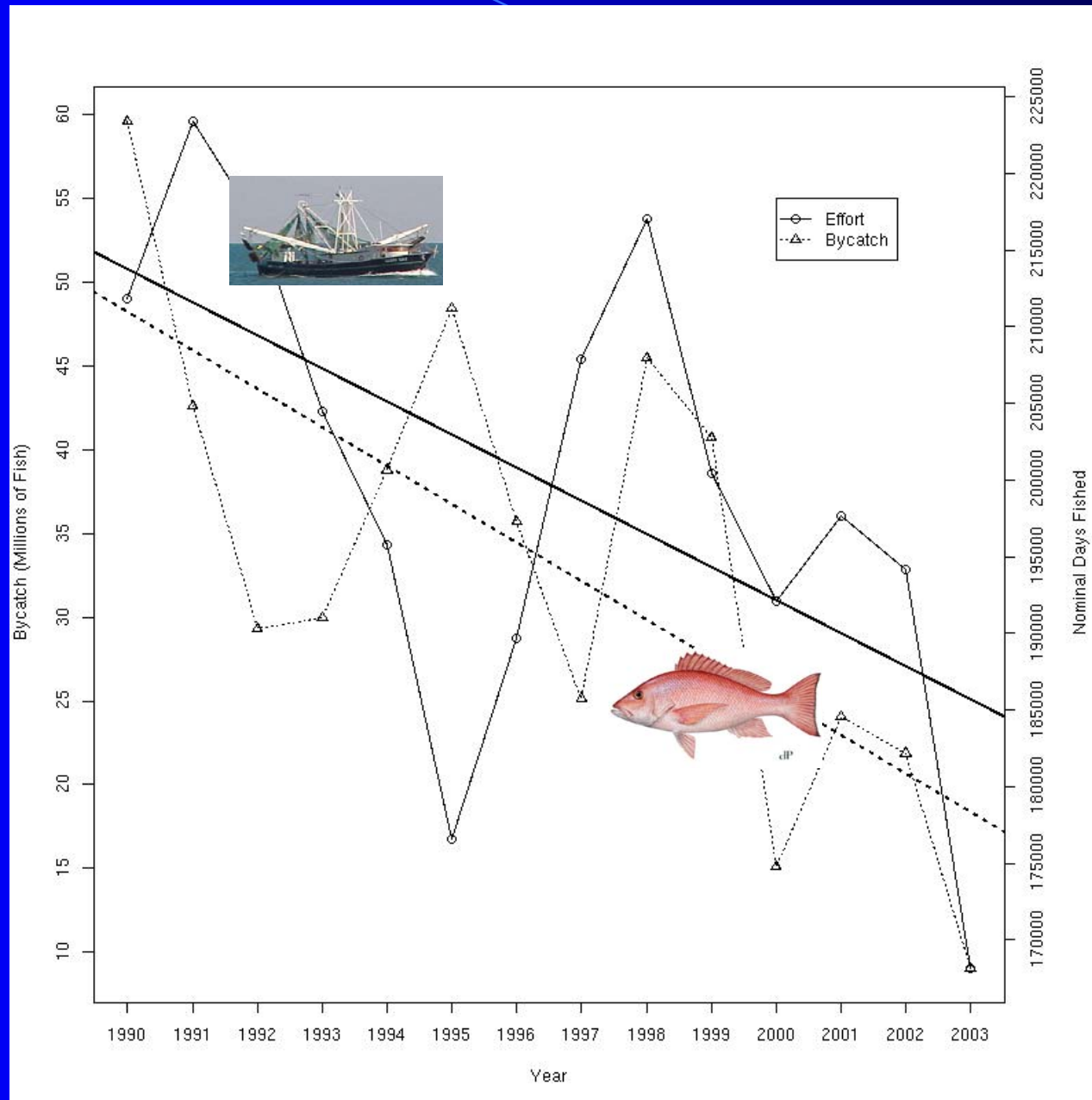


Revisions to Shrimp Fishing Effort Magnitude and Distribution for 2000 Based Upon Electronic Logbook Data

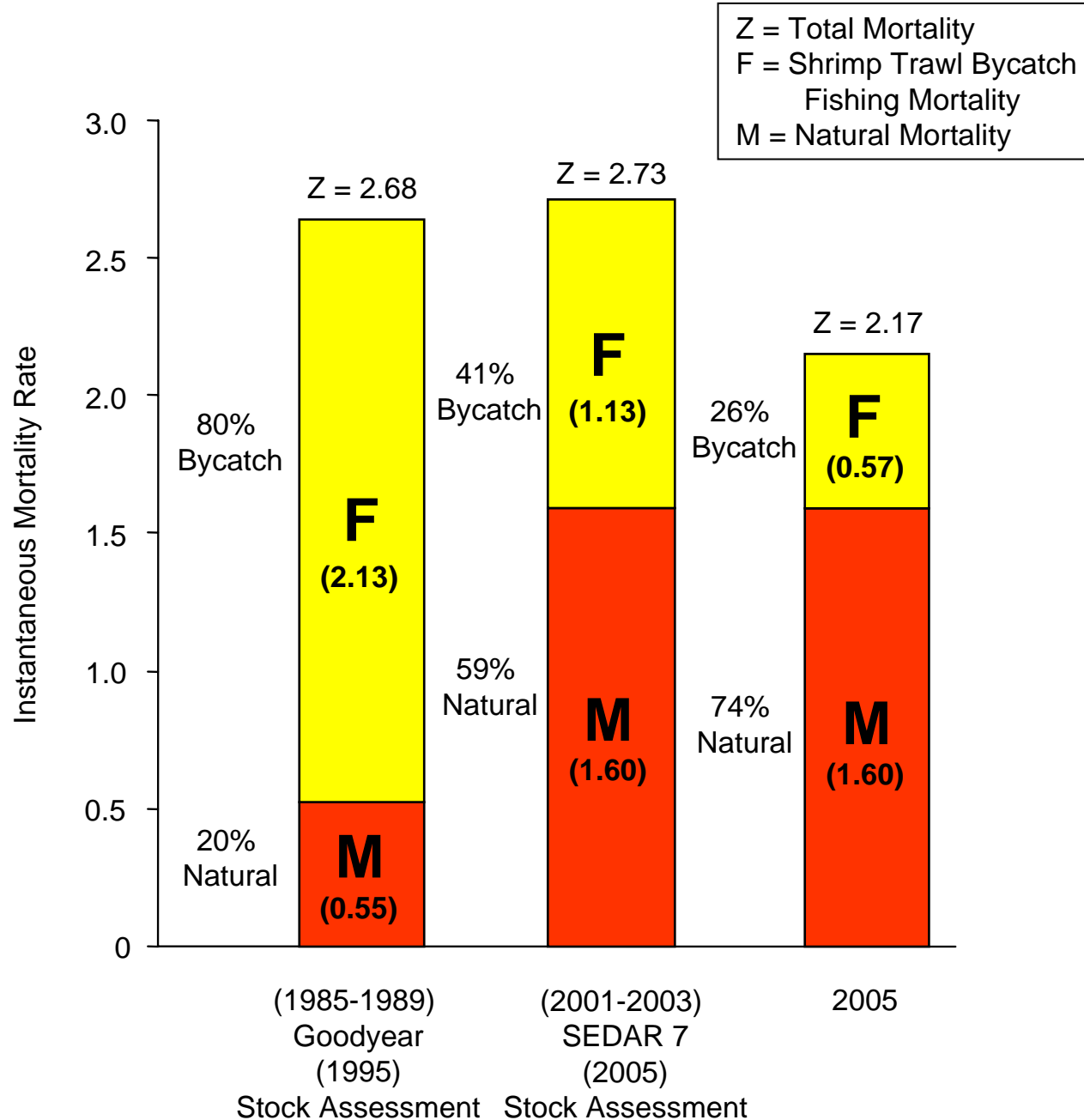


Source: Gallaway et al. (2003)
NAJFM 23:787-809

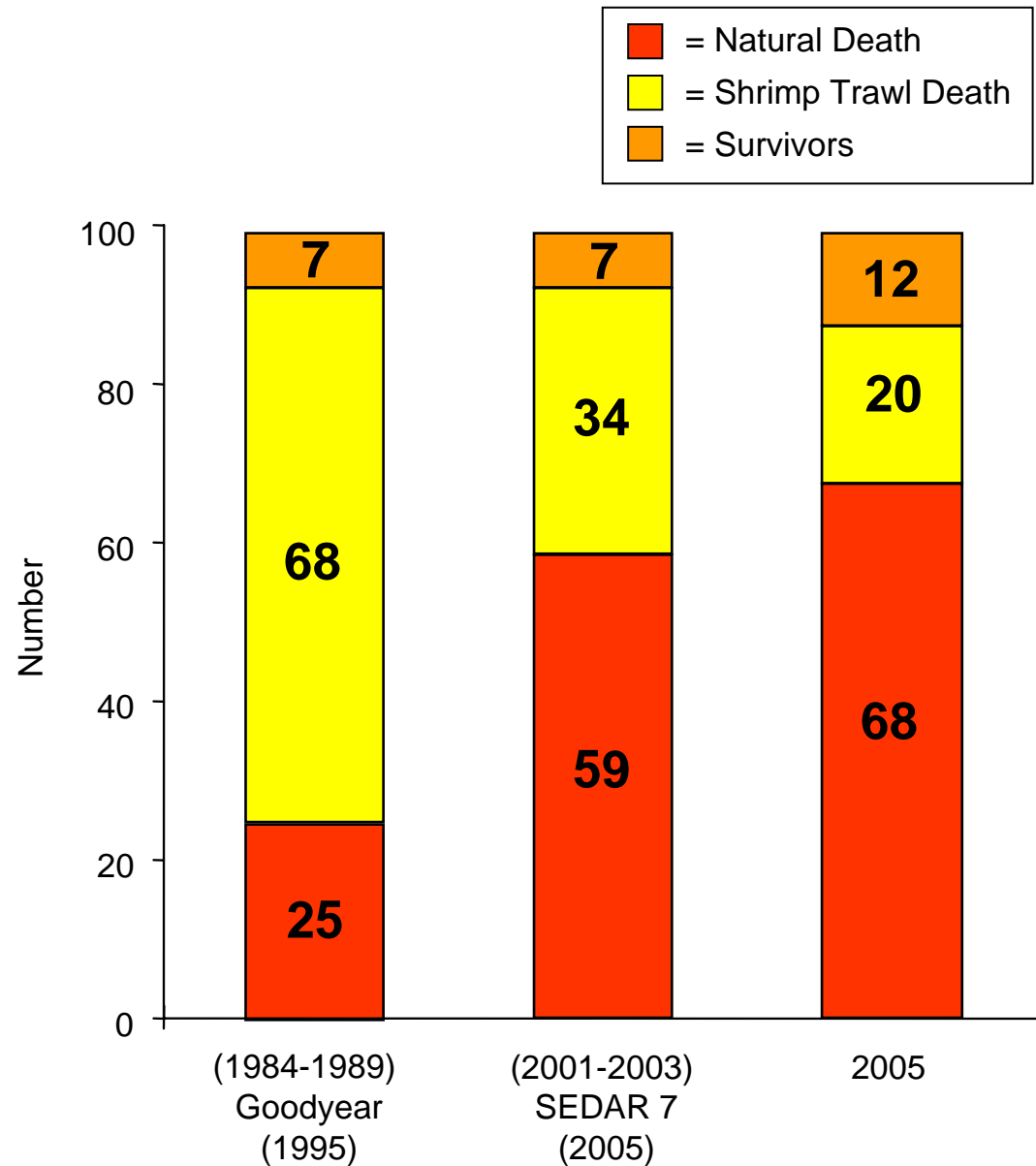
Fishing Effort and Bycatch Decline

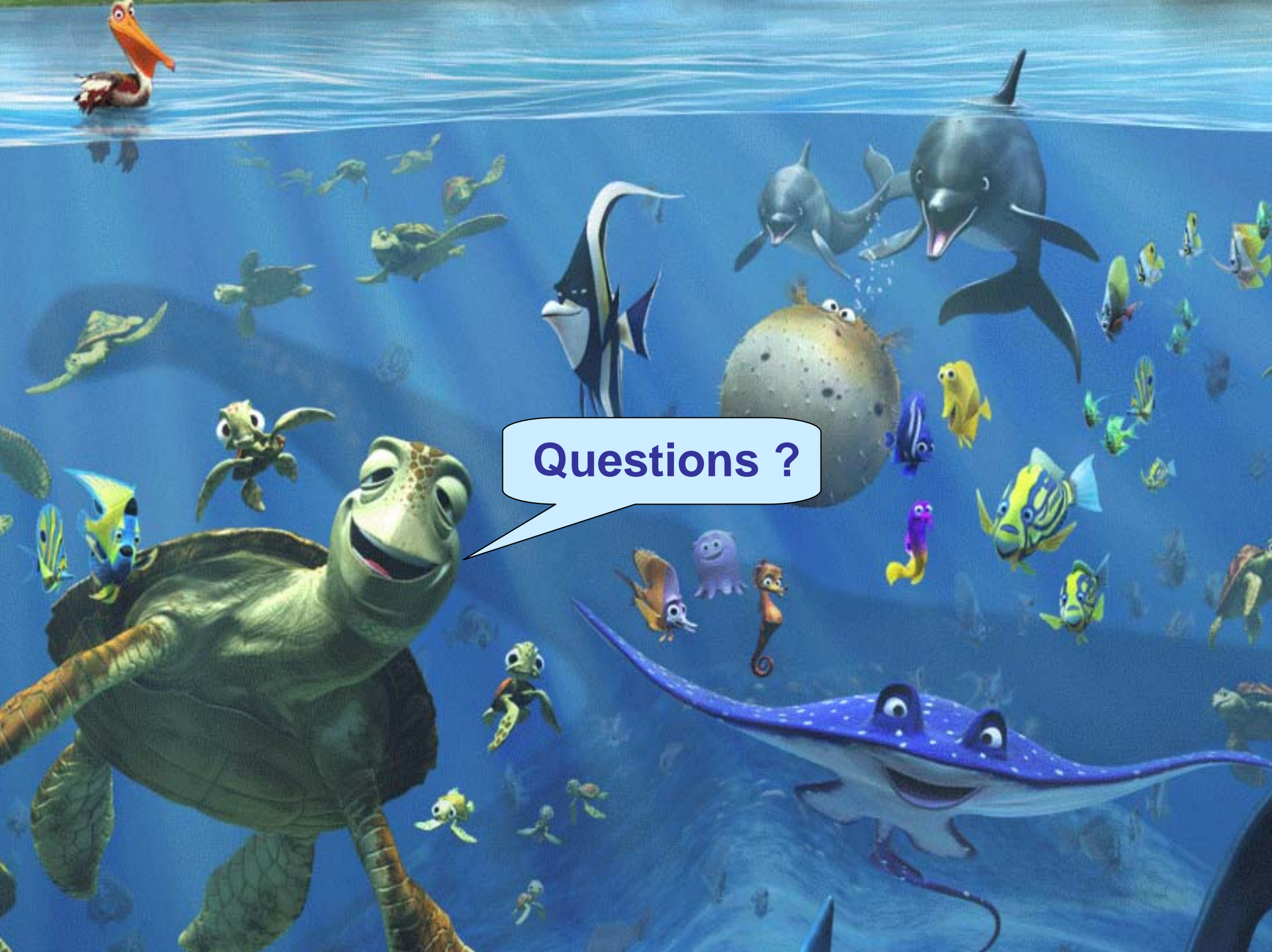


Updated Distribution of Natural Mortality vs. Shrimp Trawl Bycatch Mortality for Age 0 and 1 Red Snapper



Number of Red Snapper Deaths and Survivors per 100 Fish Over First Two Years of Life





Questions ?