

SEAMAP Fall 2008 King Mackerel & Red Drum Ichthyoplankton Survey Cruise Report

Prepared by
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Introduction

SEAMAP Fall King Mackerel and Red Drum Ichthyoplankton Survey cruises are conducted to provide fishery-independent monitoring assessment of ichthyoplankton that occur nearshore, at the mouth, and in the lower waters of a bay system in the northern Gulf of Mexico. Fishery-independent information is that collected without direct reliance on statistics reported by commercial or recreational fishermen.

Objectives

1. Conduct a fall King mackerel and red drum ichthyoplankton survey using a 1 X 2 meter, 0.333 mesh Neuston net.
2. Sample nine stations nearshore and inshore Mobile Bay at set stations established in 1990.
3. Collect information on environmental parameters (salinity, temperature, dissolved oxygen, wind speed and direction, wave height, precipitation) in conjunction with trawl sampling.
4. Code all data according to approved NMFS SEAMAP Operations Manual guidelines, and enter data on the NMFS SEAMAP data entry system.
5. Submit data to the Gulf States Marine Fisheries Commission/NMFS Data Manager.

Methods

The vessel that participated in the Alabama Fall King Mackerel and Red Drum Ichthyoplankton Survey was the A.E.Verrill. Nine neuston samples were collected in the nearshore Gulf of Mexico and lower Mobile bay. A 1 X 2 meter Neuston net with 0.333 inch mesh was lowered half in and half out of the water at the selected site and towed along the port side of the boat. Plankton net towing was conducted at or near 2 knots for 10 minutes after gear deployment. Sample preservation and data processing was conducted in accordance with the NMFS SEAMAP Operations Manual guidelines. Data was entered and checked with the NMFS SEAMAP Data Entry Database.

Environmental data were collected in conjunction with each trawl. Temperature and dissolved oxygen, salinity, and turbidity values were measured with a CDT.

Results

Alabama collected nine neuston stations in Alabama's territorial sea and adjacent Mobile

Bay waters. Samples were preserved and returned to the lab for eventual transport to the Polish Sorting Center.

Deviations

The station formerly collected just west and south of the Dauphin pier was moved to a more southern location because of the shift in the position of Sand Island.

Cruise participants:

Alabama Marine Resources Division personnel collected samples. Sample summary and data entry completed by Ashley Edwards.

Submitted By:

Mark Van Hoose
SEAMAP Field Party Chief

Table 1. AMRD SEAMAP 2008 Fall King Mackerel and Red Drum Ichthyoplankton Survey cruise report summary.

STA#	DATE		LAT	LONG	STAT ZONE	MAX DEPTH	D.O			SALINITY			TEMPERATUR		
	MM/DD/YY	TIME					SUR	MID	MAX	SUR	MID	MAX	SUR	MID	MA
23 A.E. Verrill															
23001	9/17/2008	847	30 12.70	88 02.37	11	0.5	6.5	5.4	5.5	21.9	32.4	33.0	26.1	27.8	27.7
23002	9/17/2008	942	30.13.16	88 07.62	11	0.5	6.2	5.6	5.4	29.3	33.5	33.7	26.5	27.4	27.1
23003	9/17/2008	1033	30 08.10	88 07.55	11	0.5	6.5	5.9	5.7	29.6	33.5	33.6	27.1	27.6	27.7
23004	9/17/2008	1114	30 07.46	88 04.13	11	0.5	6.6	6.1	4.8	29.1	33.4	34.2	26.9	27.7	27.9
23005	9/17/2008	1153	30 08.39	88 00.92	11	0.5	5.9	5.9	4.6	33.6	33.7	34.1	27.9	27.8	28.0
23006	9/17/2008	1238	30 12.55	88 00.75	11	0.5	6.2	6.2	6.1	34.0	34.0	34.0	27.7	27.6	27.6
23007	9/17/2008	1411	30 16.53	88 00.07	11	0.5	7.8	7.8	5.3	20.2	20.5	28.4	26.7	26.6	27.1
23008	9/17/2008	1448	30 16.70	88 02.12	11	0.5	8.3	5.7	5.2	19.9	31.6	31.1	26.9	27.4	27.7
23009	9/17/2008	1511	30 16.70	88 04.46	11	0.5	7.7	7.5	3.7	21.2	22.1	25.9	26.8	26.7	27.1

Data transfer summary: number of observations in each table.

Station Card	Environmental
80	45

Submitted by:
Mark Van Hoose
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