#92009

BRANCH OF ATLANTIC MARINE GEOLOGY
U.S. GEOLOGICAL SURVEY
Woods Hole, MA 02543

CRUISE REPORT

Ship Name: RV Asterias

Cruise No.: 92-1

Project: Connecticut Cooperative

Funding Agency: USGS, State of Connecticut

Area of Operation: Eastern Long Island Sound and Fishers Island Sound

Cruise Dates: June 2-10, 1992; Woods Hole, MA to Mystic, CT to Woods Hole, MA

Chief Scientists: Larry Poppe, Ralph Lewis

Scientific Party:
Larry Poppe, USGS
Ralph Lewis, Connecticut Geologic Survey (CGS)
Sid Quarrier, CGS
Doug Tolderlund, Coast Guard Academy
Ari Locklear, Southern Connecticut College
Roman Zajac, University of New Haven (UNH)
Jana Newman, UNH
Students(2), UNH
Bob Wintsch, Indiana University (IU)
Students (3), IU

Ship's Captain: David Olmsted, WHOI

Purpose of Cruise: Bottom sampling and photography to (1) determine the textural distributions of surficial sediments, to relate these distributions to active sedimetary processes, and to evaluate potential near-shore sand and gravel resources; (2) bentic biologic sampling to evaluate the faunal distributions and concentrations and relate them to habitats within a previously collected side scan mosaic; (3) sediment samples to examine the present trace metal concentration within and outside the dredge-spoil dumpsites off the Thames River estuary.

Navigation Techniques: Differential GPS, Megapulse Loran-C; recorded on 5.25" diskettes

Scientific Equipment: Van Veen Grab Sampler, Osprey Camera System

Days at Sea: 9

Station Occupied:

297 sediment sampling (fis-1 to fis-219, fis-29-2, fis-42-2, fis-423-2, fis-68-2, fis-87-2, fis-95-2, fis-123-2, fis-130-2, fis-137-2, fis-169-2, fis-171-2, fis-175-2, fis-189-2, fis-194-2, fis-198-2, fis-199-2, fis-201-2, fis-207-2; m1-m60)

300 bottom photography (fis-1 to fis-222, fis-29-2, fis-42-2, fis-42-3, fis-68-2, fis-87-2, fis-95-2, fis-123-2, fis-130-2, fis-137-2,

fis-169-2, fis-171-2, fis-175-2, fis-189-2, fis-194-2, fis-198-2, fis-199-2, fis-201-2, fis-207-2; m1 to m60, Thames River)

60 bentic biology (m1 to m60)

29 geochemical (m-3 to m-7, m-9 to m-12, m-16, m-18, m-19, m-28, m-30, m-34, m-36, m-38, m-38-2, m-38-3, m-41, m-42, m-44, m-47, m-50 to m-52, Thames River; fis-42-3, fis-151)

LATITUDE (N)	LONGITUDE (W)	SAMPLE NO.
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41.298337	-72.049120	m05
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41.287852	-72.094513	m19
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41.288922	-72.084297	m22
41.290043	-72.081860	m23
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41.284232	-72.080903	m25
41.282167	-72.078978	m26
41.273765	-72.094200	m27
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41.309873	-71.867360	fis2
41.306092	-71.864562	fis3
41.299863	-71.862952	fis4
41.299788	-71.867833	fis5
41.294740	-71.869398	fis6
41.303808	-71.871235	fis7
41.299427	-71.874660	fis8
41.295225	-71.880738	fis9
41.300450	-71.881760	fis10
41.303277	-71.881395	fis11
41.301697	-71.885815	fis12
41.294747	-71.886998	fis13
41.297392	-71.888552	fis14
41.301695	-71.888732	fis15
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41.302433	-71.891553	fis19
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41.319342	-71.918030	fis56
41.314402	-71.917683	fis57
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41.286103	-71.947040	fis87-2
41.289512	-71.947550	fis88
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41.309022	-71.943455	fis92
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41.328103	-71.944010	fis96
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41.318100	-71.944757	fis98
41.311087	-71.946895	fis99
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41.318408	-71.950827	fis111
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41.306027	-71.956555	fis113
41.302683	-71.956407	fis114
41.297253	-71.958113	fis115
41.290488	-71.959735	fis116
41.285660	-71.959797	fis117
41.290315	-71.963145	fis118
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41.280370	-71.977807	fis130-2
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41.304373	-71.989463	fis163
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41.291092	-72.012122	fis186
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41.281702	-72.024423	fis195
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41.294268	-72.013218	fis194-2
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41.302253	-72.028415	fis207-2
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41.290050	-72.032293	fis210
41.284253	-72.033278	fis211

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41.283013	-72.043712	fis213
41.280263	-72.053562	fis214
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41.279550	-72.034888	fis217
41.278632	-72.044958	fis218
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41.289730	-71.989447	fis220-end
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41.299437	-71.969707	fis222-start
41.299303	-71.970210	fis222-end
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41.277785	-72.071607	m-29
41.271825	-72.086322	m-30
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41.267908	-72.098123	m-32
41.269728	-72.096873	m-33
41.271412	-72.093357	m-35
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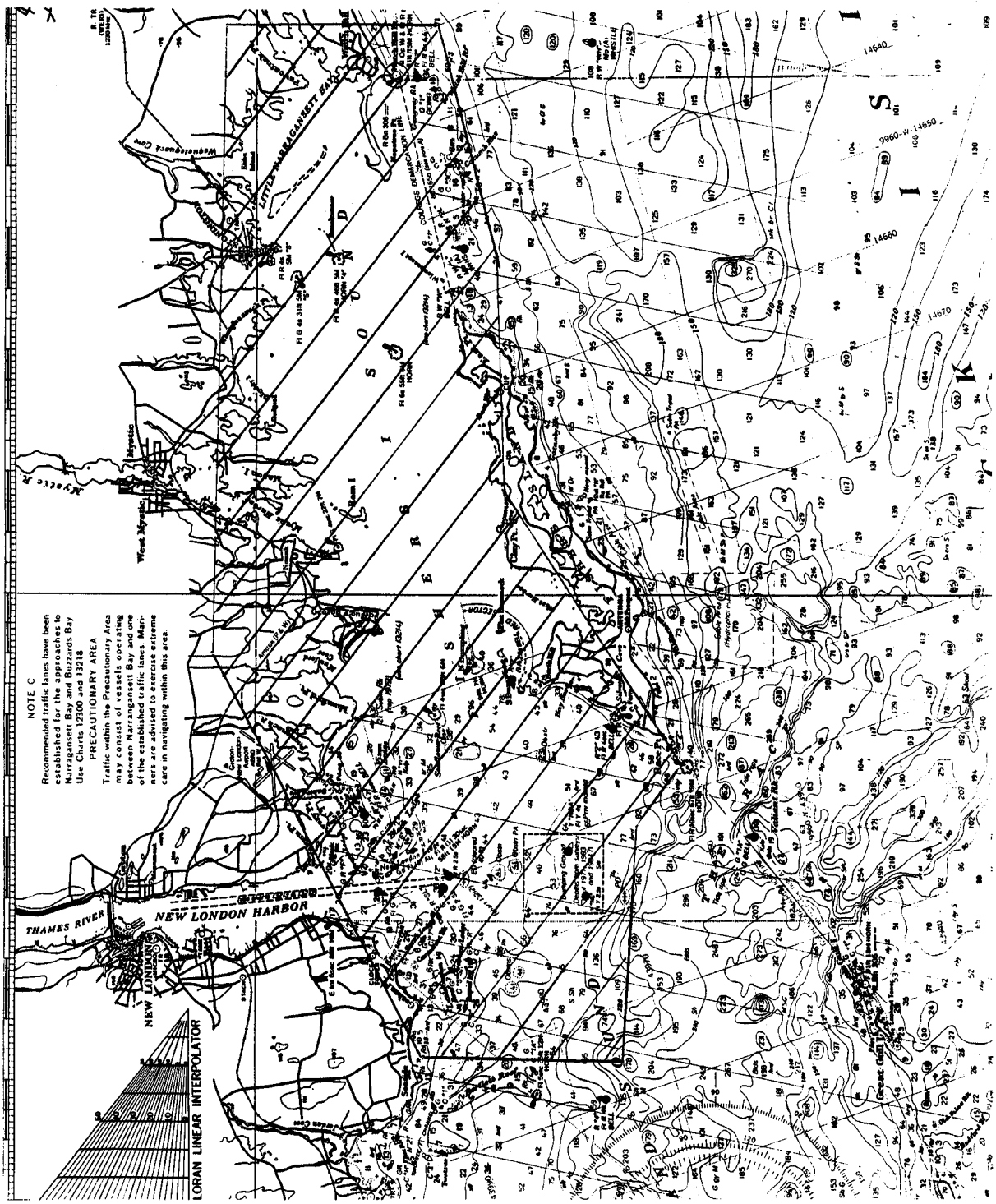

Map showing location of Asterias92-1 study area. Cross-hatched area contains all of the sample locations from this cruise.