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December 1990

US Army Corps of Engineers
New England Division

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The Disposal Area Monitoring System (DAMOS) was begun by the New England Division (NED) of the U.S. Army Corps of Engineers in 1977 to perform monitoring studies that would permit management of dredged material disposal effects. The results of these studies are presented in a series of DAMOS contributions and include information on dredged material disposal and its physical, chemical, and biological impacts on the environment. It is hoped that this index will facilitate the location of information of interest to the reader and, therefore, encourage its broad dissemination.

This document contains the index of each individual contribution prepared under DAMOS. In addition, a MASTER INDEX has been prepared that allows the reader to quickly locate the appropriate contributions containing information on the selected topic. A companion volume contains the indices for the the SR-series of reports produced in the 1970's prior to DAMOS.

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221 Third Street
Newport, RI 02840
(401) 847-4210

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PREFACE

The Disposal Area Monitoring System (DAMOS) was begun by the New England Division (NED) of the U.S. Army Corps of Engineers in 1977 to perform monitoring studies that would permit management of dredged material disposal effects. The results of these studies are presented in a series of DAMOS contributions and include information on dredged material disposal and its physical, chemical, and biological impacts on the environment. This series of reports began with the first Annual Report prepared in 1978 by the Naval Undersea Systems Center (NUSC). In 1979, after the second Annual Report was prepared, Science Applications, Inc. (now known as Science Applications International Corporation or SAIC) continued the work begun at NUSC and has produced all subsequent contributions. Because of the large volume of work performed over the last ten years and the multidisciplinary nature of that work, the need for a comprehensive index of these contributions became evident. It is hoped that this index will facilitate the location of information of interest to the reader and, therefore, encourage its broad dissemination.

This document contains the index of each individual contribution prepared under DAMOS. In addition, a MASTER INDEX has been prepared that allows the reader to quickly locate the appropriate contributions containing information on the selected topic. The page numbers in the MASTER INDEX refer to the pages of the individual indices containing the selected topic while the page numbers in the individual indices refer to the pages in that contribution containing the selected topic.

All contributions have been listed in the Table of Contents for completeness; however, some contributions were not indexed for the reasons indicated. This index will be updated periodically. A companion volume contains the indices for the SR-series of reports produced in the 1970's prior to DAMOS.

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(11/10/83 - 12/14/83)

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CONTRIBUTION #61
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SOUND DISPOSAL SITE, AUGUST 1986

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Kruskal-Wallis Test 6
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sand 6, 8, 13, 16
silt 6, 8, 13, 16
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cores 4
grabs 3, 4
shore station 2
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cadmium (Cd) 4, 8, 9, 16
copper (Cu) 4, 8, 9, 14, 16
iron (Fe) 4, 8, 9, 13, 14, 16
lead (Pb) 3
magnesium (Mg) 7, 13, 15
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estimate 10
waste 17

CONTRIBUTION #67
MONITORING CRUISE AT THE CAPE ARUNDEL DISPOSAL SITE, OCTOBER 1987.

benthos
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buoy 1-6
    disposal 1-3, 6
CTD meter 2
currents 1, 5
density 1
disposal site
    Cape Arundel (CADS) 1-7
    New London 6
dredging
    clamshell 7
interstitial water 4
REMOTS 1-6
resuspension 5
salinity 2
scow logs 1, 3-5
sediment
    clay 3, 5
    resuspension 5
    sand 1, 3-5
    silt 1, 3, 5
shore station 2
sidescan sonar 1, 6
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    bathymetry 1-6
    sidescan 1
    sub-bottom 6
temperature 2
tide 2
topography 1, 5, 6
trough 1, 2, 5, 6
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    estimate 4, 5
waves 5

CONTRIBUTION #68
MONITORING CRUISE AT THE CENTRAL LONG ISLAND SOUND DISPOSAL SITE, AUGUST-SEPTEMBER 1987.

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    amphipod 8, 10
    bivalve 11, 20
    Nephtys sp. 2, 4, 13, 19, 20, 23
    Pitar sp. 20
    polychaete 2, 4, 5, 13
bioaccumulation 19, 20
biomass 5
bioturbation 17
body burden 2, 4, 5, 13, 19, 20
    bioaccumulation 19, 20
boundary roughness 8, 11
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    disposal 1, 3, 6, 7, 16, 21
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    MQR 1-5, 10-12, 14, 16, 17, 19, 21, 22
    New Haven-83 (NH-83) 2-5, 10-12, 14, 16, 17, 21, 22
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    STNH-S 1-5, 10-12, 14, 16, 17, 20-22
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    direction 4
density 14, 15, 20, 23
    sigma-t 14
deposition 8, 9, 17
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    Central Long Island Sound (CLIS) 1-9, 12-23
    New London 19, 24
dissolved oxygen 2, 5, 14, 20-22
erosion 17
fish 24
grain size 4, 7, 9, 10, 21, 23
habitat 4, 10, 17, 22
halocline 14
hurricane 18, 24
hypoxia 2, 21, 22
methane 11
mud clast 9

New England River Basin Classification (NERBC) 12, 13, 24
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recruitment 21
reference station 1, 4, 5, 8-15, 17-19, 21-23
    CLIS-REF 4, 5, 14, 15, 20
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    halocline 14
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    clay 7, 9-11, 17, 21, 23
    resuspension 2, 18, 19, 23
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    grabs 4
shore station 2
sigma-t 14
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topography 1, 2, 6, 15, 21
trace metals 2, 4, 5, 13, 18, 19, 23
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containment 3
convective descent 3
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    meter 1
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    Cornfield Shoals 1-3, 5
    New London 1, 3
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CONTRIBUTION #74
MONITORING CRUISE AT THE WESTERN LONG ISLAND SOUND DISPOSAL SITE, NOVEMBER 1987.

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    Nephtys sp. 1, 4, 9, 15, 17
    polychaete 1, 4, 7, 9, 15, 17
bioaccumulation 15
biomass 4
bioturbation 11
    foraging 7
body burden 1, 4, 5, 9, 15, 16
    bioaccumulation 15
boundary roughness 6
buoy 1, 5, 10, 16
    disposal 1, 10, 16
Central Long Island Sound (CLIS) 14, 15
    FVP 15
    Norwalk (NOR) 2
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contaminant 1, 2, 4, 14-17
CTD meter 2, 3, 8, 12
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habitat 2, 7, 11, 12, 16
hurricane 6, 12, 16, 17
hypoxia 7, 12, 13, 16, 17
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    boundary roughness 6
    Organism-Sediment Index (OSI) 7, 11, 12, 16
    redox potential discontinuity (RPD) 5-7, 11, 12, 16, 17

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    clay 1, 6, 8, 13, 16
    resuspension 14, 17
    sand 1, 6, 8, 13, 16
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    cores 4, 18
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shore station 2
sigma-t 8
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    pre-disposal 14
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tide 2, 13
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    cadmium (Cd) 4, 9, 15, 17
    copper (Cu) 4, 9, 15-17
    iron (Fe) 4, 9, 14-17
    lead (Pb) 1, 4, 17
    magnesium (Mg) 8, 12, 13
    mercury (Hg) 1, 4, 9, 13-15, 17
    zinc (Zn) 4, 8, 9, 14-16
volume
    difference 10
    estimate 10
waste 19

CONTRIBUTION #75
ANALYSIS OF SEDIMENT CHEMISTRY AND BODY BURDEN DATA OBTAINED AT THE MASSACHUSETTS BAY DISPOSAL SITE, OCTOBER 1987

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benthos
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    Nephtys sp. 1, 2, 4, 7
    polychaete 1, 2, 4
biomass 2
body burden 1, 2, 4, 6, 7
buoy 4, 5
    disposal 4, 5
contaminant 1, 3, 4, 6
disposal site
    Foul Area (FADS) 1-4, 6, 7
    New London 7
New England River Basin Classification (NERBC) 3
organics
    polyaromatic hydrocarbon (PAH) 2-4, 6
    polychlorinated biphenyl (PCB) 2-4
    total organic carbon 2
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sediment
    chemistry 1, 4, 6
    sand 4, 5
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    cores 1-3, 7
    grabs 2, 4
shore station 2
spectrophotometry
    atomic absorption 2
statistical testing 3-6
    ANOVA 3, 4
    Kruskal-Wallis Test 3
survey
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trace metals 2, 5
    arsenic (As) 2, 3, 7
    cadmium (Cd) 2-4, 6
    chromium (Cr) 2, 3
    copper (Cu) 2-6
    iron (Fe) 2, 4
    lead (Pb) 5, 6
    mercury (Hg) 2-6
    nickel (Ni) 2, 3
    zinc (Zn) 2-7
waste 7

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    polychaete 5
bioturbation
    foraging 5
buoy 1, 4, 7, 10
    disposal 1, 4, 7
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    Norwalk (NOR) 2
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CTD meter 2, 3, 6, 9
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disposal site
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    Eatons Neck 1
    New London 9, 11
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erosion 5
fish 12
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habitat 5, 8-10
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hypoxia 5, 8-11
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nutrients
    nitrogen 12
recolonization 2
reference station 2, 4-6, 8-10
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    redox potential discontinuity (RPD) 4-6, 8-10
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    clay 4
    sand 4
    silt 4
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    Mann-Whitney U-test 5, 6
succession
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thermocline 6
tide 2
topography 1, 7
trace metals
    lead (Pb) 3, 8
    magnesium (Mg) 6
volume
    estimate 7

aerobic 9, 11
benthos 1, 2, 5, 8-12
bioturbation
    foraging 5
boundary roughness 4
buoy 1-7, 10, 11
    disposal 1, 2, 4, 6
Central Long Island Sound (CLIS) 1-4, 6, 8-12
    Capsite-1 (CS-1) 3, 4
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colonization 9
CTD meter 2, 3, 6, 9
density 6
    sigma-t 6
deposition 4
disposal site
    Central Long Island Sound (CLIS) 1-4, 6, 8-12
    New London 8, 11, 12
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dissolved oxygen 1, 3, 6, 9-12
dredging
    clamshell 12
erosion 5
fish 12
grain size 4
habitat 5, 9
hypoxia 5, 10, 11
interstitial water 7, 11
recolonization 2
reference station 1, 2, 4-6, 8, 10, 11
    CLIS-REF 2, 8
REMOTS 1-8, 10-12
    boundary roughness 4
    Organism-Sediment Index (OSI) 5, 8, 9, 11
    redox potential discontinuity (RPD) 4, 5, 8, 9, 11
salinity 1-3, 6
scow logs 3, 7, 8, 11
sediment
    clay 4
    sand 4
    silt 4
sediment oxygen demand (SOD) 8
shore station 2
sigma-t 6
statistical testing
    Mann-Whitney U-test 4, 5
stratigraphy 4
successional stage 5

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survey
    bathymetry 1-3, 6-8, 10, 11
    post-disposal 1
temperature 1-3, 6
thermocline 6
tide 2
topography 1, 6
trace metals
    magnesium (Mg) 6, 9
volume
    difference 7
    estimate 7, 8, 11

CONTRIBUTION #71
CAPPING SURVEY AT THE NEW LONDON
DISPOSAL SITE, FEBRUARY 3, 1989

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capping 1-5
CTD meter 2
deposition 2-4
disposal site
    New London 1, 3, 5
REMOTS 1, 4, 5
salinity 2
scow logs 3
shore station 1
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    bathymetry 1-5
    post-disposal 2, 4
temperature 2
tide 2
topography 2, 3

aerobic 12, 14
benthos 1, 2, 6, 7, 10-15
    ampeliscids 15
    amphipod 5, 10, 11, 14, 15
bioturbation
    feeding void 5
    foraging 6, 12, 14
boundary roughness 5, 6
buoy 1-6, 8, 9, 12, 13
    disposal 1-5, 8
colonization 11, 12, 14
CTD meter 2, 3, 7, 12, 13
currents 10
    meter 14
density 7, 8, 12
    sigma-t 7
deposition 13
disposal site
    New London 1-4, 8, 10, 11, 13, 15
dissolved oxygen 1, 3, 7, 8, 12-15
dredging
    clamshell 15
erosion 6, 10, 14
feeding void 5
fish 14, 15
grain size 5, 10
habitat 6, 11, 12
hydroids 5
hypoxia 6, 13, 14
interstitial water 9, 13
recolonization 2
reference station 1, 5-8, 10-12, 14
REMOTS 1-11, 13-15
    boundary roughness 5, 6
    Organism-Sediment Index (OSI) 6, 7
    redox potential discontinuity (RPD) 6, 7, 10, 11, 14
salinity 1-3, 7, 8, 12
scow logs 1, 4, 9-11, 13
sediment
    clay 5
    sand 5, 10
    silt 5
sediment oxygen demand (SOD) 11
shore station 2
sigma-t 7
statistical testing 6
    Mann-Whitney U-test 6, 7
stratigraphy 4, 5
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