

Lamont-Doherty Earth Observatory

Grab LOG

LIS2301 - - 6001
 2-Letter Ship Abbreviation LIS Cruise or 2-No. Year 2301 Leg for EWING grab Number 6001 Type
 (Example: LIS2301-G100)

Grab Name	LIS 2301 - 6001	Date	2023-06-12
Project:	LIS 3A	Time	15:54
Ship:	RV L. WEICKER	Cruise ID/ Year:	LIS2301
Location		Device	grab
Form completed by	FRANK	Institution	
Latitude	41° 03.060	Longitude	73° 21.235
Water depth (m)	32 ft	Target ID:	T-53

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 062
Oxidized top (yes, no)	yes no
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark gray
Mud (absent, rare, common, abundant)	absent
Sand (absent, rare, common, abundant)	abundant
Gravel (absent, rare, common, abundant)	rare
Pebbles (absent, rare, common, abundant)	rare
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	abundant, well preserved
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	
H ₂ S smell (yes, no)	—
Lithology (estimated)	medium coarse sand gravelly coarse sand

Notes:

2 Go Pro's

brochtopus

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Grab LOG

LIS2301 - 6002

2-Letter Ship Abbreviation LIS Cruise or 2-No. Year 2301 Leg for EWING grab Number 6002 Type

(Example: LIS2301-G100)

Grab Name LIS2301 - 6002		Date 2023-06-12
Project: LIS3A		Time 16:22
Ship: L. Waider		Cruise ID/ Year:
Location		Device grab
Form completed by F. MITSCHKE		Institution
Latitude 41° 02.472'	Longitude 73° 23.424	
Water depth (m) 9.1	Target ID: T-50	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 061
Oxidized top (yes, no)	—
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark gray
Mud (absent, rare, common, abundant)	0 rare or none
Sand (absent, rare, common, abundant)	++
Gravel (absent, rare, common, abundant)	—
Pebbles (absent, rare, common, abundant)	—
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	abundant ++ gastropods
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	—
Lithology (estimated)	coarse sand

Notes:

shell can - seal
gastropods alive?

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Grab LOG

LIS2301 - G003
 2-Letter Ship Abbreviation LIS Cruise or 2-No. Year 301 Leg for EWING grab Number 003 Type
 (Example: LIS2301-G100)

Grab Name LIS2301-G003		Date 2023-06-12
Project: LIS 3A		Time 16:40
Ship: Weiche		Cruise ID/ Year:
Location		Device grab
Form completed by F. Mitsch		Institution
Latitude 41° 02.370	Longitude 73° 25 121	
Water depth (m) 13.8	Target ID: T-47	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 066
Oxidized top (yes, no)	—
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark gray
Mud (absent, rare, common, abundant)	rare
Sand (absent, rare, common, abundant)	abundant
Gravel (absent, rare, common, abundant)	—
Pebbles (absent, rare, common, abundant)	—
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	few large, abundant small (mm-sized)
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	—
Lithology (estimated)	medium sand fine

Notes:

hermit shells jar 066

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Grab LOG

L152301 - - 6004
 2-Letter Ship Cruise or Leg for grab Type
 Abbreviation 2-No. Year EWING Number
 (Example: LIS2301-G100)

Grab Name	L152301-6004	Date	2023-06-13
Project:		Time	8:30
Ship:	Wpicken	Cruise ID/ Year:	
Location		Device	penn grab
Form completed by	F. NITSCHE	Institution	
Latitude	41° 01.205	Longitude	73° 29.154
Water depth (m)	14.6	Target ID:	T-20

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 073
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark grey
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	0 rare
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	rare 0
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	
Lithology (estimated)	sandy mud, fine sand medium sand

Notes:

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Grab LOG

LIS2301 - 6005
 2-Letter Ship Abbreviation LIS Cruise or 2-No. Year 2301 Leg for EWING grab Number 6005 Type
 (Example: LIS2301-G100)

Grab Name LIS2301 - 6005		Date 2023-06-13
Project:		Time 8:51
Ship: Weichu		Cruise ID/ Year:
Location		Device Ponar grab
Form completed by F. Mitschu		Institution
Latitude 41° 01.092	Longitude 73° 28.471	
Water depth (m) 19.1	Target ID: T-026	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ - jar 071
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark grey
Mud (absent, rare, common, abundant)	++ common
Sand (absent, rare, common, abundant)	-
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	-
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	yes
Lithology (estimated)	mud

Notes:

had a worm

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Grab LOG

LIS2301 - 6006
 2-Letter Ship Abbreviation LIS Cruise or 2-No. Year 2301 Leg for EWING grab Number 6006 Type
 (Example: LIS2301-G100)

Grab Name LIS2301 - 6006		Date 2023-06-13
Project: LIS 3A		Time 09:16
Ship: Wrichev		Cruise ID/ Year:
Location 41° 02.541		Device ponar grab
Form completed by F. Mitschke		Institution
Latitude 41° 02.541	Longitude 73° 23.840	
Water depth (m) 25.0	Target ID: T-02	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar-067
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	black
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	0 rare
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	0 rare
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	0 rare
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	no yes
Lithology (estimated)	mud

Notes:

slightly coarse drift

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Grab LOG

LIS 2301 - - G007

2-Letter Ship Cruise or Leg for grab Type
Abbreviation 2-No. Year EWING Number

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G007	Date	2023 - 06 - 13
Project:	LIS 3A	Time	9:34
Ship:	Wright	Cruise ID/ Year:	
Location		Device	ponar grab
Form completed by	F. Nitsche	Institution	
Latitude	40° 59.264	Longitude	73° 29.822
Water depth (m)	25.8	Target ID:	T-05

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 072
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark grey
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	0 rare, medium
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	0 rare
Shells (absent, rare, common, abundant)	-
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	little
Lithology (estimated)	mvd

Notes:

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Grab LOG

LIS 2301 - G 008
 2-Letter Ship Abbreviation LIS Cruise or 2-No. Year 3A Leg for EWING grab Number 008 Type
 (Example: LIS2301-G100)

Grab Name	LIS 2301 - G 008	Date	2023-06-13
Project:	LIS 3A	Time	10:03
Ship:	Weiche	Cruise ID/ Year:	
Location		Device	panor grab
Form completed by	F. Nitsch	Institution	
Latitude	40° 57.864	Longitude	73° 32.850
Water depth (m)	26.9	Target ID:	T-15

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ - jar 103
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	soft
Color	brownish gray
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	+ common medium
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	- rare
Shells (absent, rare, common, abundant)	- rare
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	
H ₂ S smell (yes, no)	
Lithology (estimated)	sandy mud

Notes:

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Grab LOG

LIS2301 - - G009

2-Letter Ship Abbreviation LIS Cruise or 2-No. Year 2301 Leg for EWING grab Number 009 Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G009	Date	2023-06-13
Project:	LIS 3A	Time	10:28
Ship:	Wicche	Cruise ID/ Year:	
Location		Device	Ponar grab
Form completed by	F. Vitsche	Institution	
Latitude	40° 56' 44.7	Longitude	73° 36.092
Water depth (m)	25.3	Target ID:	T-28

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ - jar 101 101
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	soft, little stiff
Color	brownish grey
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	+ common
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	+ common
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	sandy mud

Notes:

long benthic

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Grab LOG

LIS2301 - - 6010

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS ²³⁰¹ 2301 - 6010	Date	2023-06-13
Project:	LIS 3A	Time	10:
Ship:	Leica	Cruise ID/ Year:	
Location		Device	ponar grab
Form completed by	F. Nitsch	Institution	
Latitude	40° 55.445	Longitude	73° 38.581
Water depth (m)	17.0	Target ID:	T-12

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 064
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	brownish gray
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	++ abundant, fine-medium
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	common, medium
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	sandy mud

Notes:

anthropod
some worm

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Grab LOG

LIS 2301 - - 6011

2-Letter Ship Cruise or Leg for grab Type
Abbreviation 2-No. Year EWING Number

(Example: LIS2301-G100)

Grab Name	LIS 2301-6011	Date	2023-06-13
Project:	LIS 3A	Time	11:13
Ship:	Weider	Cruise ID/ Year:	
Location		Device	ponar grab
Form completed by	F-Nitsch	Institution	
Latitude	40 56.6464	Longitude	73 27.3436
Water depth (m)	9.8	Target ID:	T-7

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 058
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	gray
Mud (absent, rare, common, abundant)	++ rare 0
Sand (absent, rare, common, abundant)	++ abundant, medium coarse
Gravel (absent, rare, common, abundant)	0 common
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	++ abundant, large
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	sandy mud muddy, gravelly sand

Notes:

some live bivalves

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Grab LOG

LIS2301 - G012
 2-Letter Ship Abbreviation LIS Cruise or 2-No. Year 301 Leg for EWING grab Number 012 Type
 (Example: LIS2301-G100)

Grab Name	LIS 2301 - G012	Date	2023-06-13
Project:	US 3A	Time	11:29
Ship:	Wecider	Cruise ID/ Year:	
Location		Device	poner grab
Form completed by	F. Nitgdr	Institution	
Latitude	40° 57.188	Longitude	73° 26.578
Water depth (m)	17.2	Target ID:	T-13

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 069
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	brownish gray
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	-
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	++ abundant, small mm - cm
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	✓
Lithology (estimated)	shelly mud

Notes:

tube w/ water

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Grab LOG

LIS2301 - - G013

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name LIS2301 - G013		Date 2023-06-13
Project: LIS 3A		Time 11:57
Ship: weicher		Cruise ID/ Year:
Location		Device panam grab
Form completed by F. Nitscher		Institution
Latitude 40° 56.806	Longitude 73° 25.739	
Water depth (m) 12 m	Target ID: T-24	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 127
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark green
Mud (absent, rare, common, abundant)	+ abundant
Sand (absent, rare, common, abundant)	-
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	+ common shell fragments
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	mud

Notes:

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Grab LOG

LIS2301 - - 6014

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name LIS 2301 - G014		Date 2023-06-13
Project: LIS 3A		Time 12:24
Ship: Wricken		Cruise ID/ Year:
Location		Device panam grab
Form completed by F. N. Felch		Institution
Latitude 40° 56.864	Longitude 73° 24.693	
Water depth (m) 11.5	Target ID: T-1	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 074
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	gray
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	+ common
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	+ common, small
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	no
Lithology (estimated)	sandy mud

Notes:

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Grab LOG

LIS2301 - - G015
 2-Letter Ship Abbreviation LIS Cruise or 2-No. Year 2301 Leg for EWING grab Number 015 Type
 (Example: LIS2301-G100)

Grab Name	LIS 2301 - G015	Date	2013-06-13
Project:	LIS 3A	Time	12:42
Ship:	Weicher	Cruise ID/ Year:	
Location		Device	ponam oprah
Form completed by	F. Mitsch	Institution	
Latitude	40° 57.134	Longitude	73° 25.506
Water depth (m)	12.42	Target ID:	T-4

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 104
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark gray / b. l. w.
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	-
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	rare shell
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	yes
Lithology (estimated)	mud

Notes:

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Grab LOG

LIS2301 - - 6016
 2-Letter Ship Cruise or Leg for grab Type
 Abbreviation 2-No. Year EWING Number
 (Example: LIS2301-G100)

Grab Name	LIS2301 - G016		Date	2023-06-13	
Project:	LIS 3A		Time	13:00	
Ship:	Weicker		Cruise ID/ Year:		
Location			Device	poron grab	
Form completed by	F. Nitzsche		Institution		
Latitude	40° 57.806	Longitude	73° 25.038		
Water depth (m)	17.0 m	Target ID:	T-18		

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 117
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	.
Color	gray black
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	++ abundant + common
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	++ abundant still frequent
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	sandy mud

Notes:

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Grab LOG

LIS2301 - - G017
 2-Letter Ship Cruise or Leg for grab Type
 Abbreviation 2-No. Year EWING Number
 (Example: LIS2301-G100)

Grab Name LIS 2301 - G 017		Date 2023 - 06 - 13
Project: LIS 3A		Time 13:19
Ship: Wai'aleale		Cruise ID/ Year:
Location		Device ponar grab
Form completed by F. Niyiche		Institution
Latitude 40° 57.633	Longitude 73° 25.942	
Water depth (m) 13.4 m	Target ID: T-08	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 52
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	black gray
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	-
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	no common shell fragments
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	mud

Notes:

take warm

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Grab LOG

LIS 2301 - ~~6018~~ 6018

2-Letter Ship Abbreviation 2-No. Year Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name LIS 2301-G018		Date 2023-06-13
Project: LIS 3A		Time 13:38
Ship: Weicker		Cruise ID/ Year:
Location		Device ponon grab
Form completed by F. Nitsch		Institution
Latitude 40° 57.881	Longitude 73° 26.744	
Water depth (m) 15.1 m	Target ID: T-23	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 057
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark gray
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	-
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	+ common fragments
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	mud

Notes:

Lamont-Doherty Earth Observatory

Grab LOG

LIS 2301 - - 6019

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name LIS 2301 - 6019		Date 2023-06-13
Project: LIS 3A		Time 14:07
Ship: Weichu		Cruise ID/ Year:
Location		Device ponam grab
Form completed by F. Mitsch		Institution
Latitude 40° 58.260	Longitude 73° 27.179	
Water depth (m) 17.3	Target ID: T-10	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 065
Oxidized top (yes, no)	✓ yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	black
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	o rare
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	+ common
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	mud

Notes:

tube worms

Lamont-Doherty Earth Observatory

Grab LOG

LIS 2301 - - G020
 2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Type Number
 (Example: LIS2301-G100)

Grab Name	LIS 2301 - G020		Date	2023-06-13	
Project:	LIS 3A		Time	14:21	
Ship:	wicker		Cruise ID/ Year:		
Location			Device	penn grab	
Form completed by	F. Mitsche		Institution		
Latitude	40° 58.644		Longitude	73° 26.382	
Water depth (m)	19.9m		Target ID:	T-16	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 083
Oxidized top (yes, no)	✓ yes
Stiffness (very soft, soft, stiff, very stiff)	
Color	dark gray
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	+ common
Gravel (absent, rare, common, abundant)	—
Pebbles (absent, rare, common, abundant)	—
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	rare
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	—
Lithology (estimated)	sandy mud

Notes:

tube worms

Lamont-Doherty Earth Observatory

Grab LOG

LIS 2301 - - G021

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G021	Date	2023-06-13
Project:	LIS 3A	Time	14:45
Ship:	Weiche	Cruise ID/ Year:	
Location		Device	ponom grab
Form completed by	F. Vitsche	Institution	
Latitude	40° 58.721	Longitude	73° 24.070
Water depth (m)	11.1 m	Target ID:	T-09

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	soft
Color	medium gray
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	+ common medium
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	0 common pebbles
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	++ abundant
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	stiff / sandy mud w shells (muddy shells)

Notes:

mostly shells
~~carpenter~~ / slipper shells

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Grab LOG

LIS2301 - - G022

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name LIS2301 - G022		Date 2023 - 06 - 13
Project: LIS 3A		Time 15:14
Ship: wricker		Cruise ID/ Year:
Location		Device ponon gras
Form completed by F. Mitschke		Institution
Latitude 40° 59.301	Longitude 73° 24.428	
Water depth (m) 28.1 m	Target ID: T-17	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 056
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark gray
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	+ comm
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	0 rare
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	sandy mud

Notes:

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Grab LOG

457301 - - 6023

2-Letter Ship Cruise or Leg for grab Type
Abbreviation 2-No. Year EWING Number

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G 023	Date	2023-06-13
Project:	LIS 3A	Time	15:48
Ship:	Wrecker	Cruise ID/ Year:	
Location		Device	ponam grab
Form completed by	F. Mitsche	Institution	
Latitude	40° 59.448	Longitude	73° 26.769
Water depth (m)	27.7 m	Target ID:	T-11

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 076
Oxidized top (yes, no)	Yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark gray
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	+ common, medium
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	0 common, many shell fragments
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	coarse sandy mud

Notes:

Lamont-Doherty Earth Observatory

Grab LOG

LIS2301 - - G024

2-Letter Ship Cruise or Leg for grab Type
Abbreviation 2-No. Year EWING Number

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G024	Date	2023-06-13
Project:	LIS 3A	Time	16:11
Ship:	Wpichcr	Cruise ID/ Year:	
Location		Device	ponan grab
Form completed by	T. Mitsun	Institution	
Latitude	40° 59.658	Longitude	73° 27.406
Water depth (m)	28.9m	Target ID:	T-29

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 080
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	gray
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	+ common
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	++ scallan abundant
Oysters (live/dead) (absent, rare, common, abundant)	++ common abundant
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	or light smell
Lithology (estimated)	sandy mud

Notes:

scallan + oyster (up to 2cm)

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Grab LOG

LIS 2301 - - 6025

2-Letter Ship Cruise or Leg for grab Type
Abbreviation 2-No. Year EWING Number

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G025	Date	2023-06-13
Project:	LIS 3A	Time	16:32
Ship:	Wicber	Cruise ID/ Year:	
Location		Device	ponom grab
Form completed by	F. NITSCHÉ	Institution	
Latitude	40 41° 00.122	Longitude	73° 26.789
Water depth (m)	25.6m	Target ID:	T-19

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 107
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark gray
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	-
Gravel (absent, rare, common, abundant)	● rare
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	-
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	mud

Notes:

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Grab LOG

LIS2301 - - G026
 2-Letter Ship Cruise or Leg for grab Type
 Abbreviation 2-No. Year EWING Number
 (Example: LIS2301-G100)

Grab Name LIS 2301 - G 026		Date 2023-06-13
Project: LIS 3A		Time 16:56
Ship: Weichen		Cruise ID/ Year:
Location		Device ponam grab
Form completed by F. Mitsch		Institution
Latitude 40 41° 00.588	Longitude 73° 27.507	
Water depth (m) 23.1 m	Target ID: T-14	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 053
Oxidized top (yes, no)	✓ yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	gray
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	-
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	0 rare
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	- -
Lithology (estimated)	mud

Notes:

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Grab LOG

LIS2301 - - G027

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name LIS 2301 - G027		Date 2023-06-14
Project: LIS 3A		Time 08:02
Ship: Weicker		Cruise ID/ Year:
Location		Device pinan 4ru5
Form completed by F. Mitscher		Institution
Latitude 41° 01.910	Longitude 73° 14.592	
Water depth (m) 19.7	Target ID: T-38	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar-048
Oxidized top (yes, no)	yes ✓
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	brunish gray
Mud (absent, rare, common, abundant)	+ common
Sand (absent, rare, common, abundant)	++ abundant
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	0 rare shells (unbroken)
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	muddy medium sand

Notes:

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Grab LOG

LIS2301 - - G028

2-Letter Ship Abbreviation	Cruise or 2-No. Year	Leg for EWING	grab Number	Type

(Example: LIS2301-G100)

Grab Name LIS 2301 - G028		Date 2023-06-14
Project: LIS 3A		Time 8:23
Ship: Weichen		Cruise ID/ Year:
Location		Device ponar 9605
Form completed by F. M. Y. Chen		Institution
Latitude 40° 00.406	Longitude 73° 18.272	
Water depth (m) 27.4	Target ID: T-57	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 041
Oxidized top (yes, no)	✓ yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	black
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	-
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	-
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	mud

Notes:

one worm

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Grab LOG

LIS 2301 - - G 029

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G 029	Date	2023-06-14
Project:	LIS 3A	Time	8:47
Ship:	Wicken	Cruise ID/ Year:	
Location		Device	ponan grab
Form completed by	F. Nitsch	Institution	
Latitude	40° 59.565	Longitude	73° 19.640
Water depth (m)		Target ID:	T-36

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 099
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	soft
Color	grey
Mud (absent, rare, common, abundant)	++ abundant
Sand (absent, rare, common, abundant)	-
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	++ common (mm-scale)
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	mud

Notes:

worm tube

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Grab LOG

LIS 2301 - - 6030

2-Letter Ship Cruise or Leg for grab Type
Abbreviation 2-No. Year EWING Number

(Example: LIS2301-G100)

Grab Name LIS 2301 - G030		Date 2023 - 06 - 14
Project: LIS 3A		Time 9:14
Ship: Weicker		Cruise ID/ Year:
Location		Device ponem grab
Form completed by F. Mitsche		Institution
Latitude 40° 58.496	Longitude 73° 17.707	
Water depth (m) 20.9	Target ID: T-43	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 096
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	gray
Mud (absent, rare, common, abundant)	+ abundant
Sand (absent, rare, common, abundant)	0 rare
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	+ common (mm-scale)
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	sandy mud

Notes:

tube worms

Lamont-Doherty Earth Observatory

Grab LOG

LIS2301 - - G031

2-Letter Ship Cruise or Leg for grab Type
Abbreviation 2-No. Year EWING Number

(Example: LIS2301-G100)

Grab Name	LIS2301 - G031	Date	2023-06-14
Project:	LIS3A	Time	09:39
Ship:	Weicker	Cruise ID/ Year:	
Location		Device	ponom grab
Form completed by	F. Nitsche S. Izzo	Institution	
Latitude	40° 56.979	Longitude	73° 18.272
Water depth (m)	14.8m	Target ID:	T-39

Grab description:

Surface photo	✓
Grain size sample (jar number)	4✓ Jar 47
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	Brownish gray
Mud (absent, rare, common, abundant)	rare
Sand (absent, rare, common, abundant)	abundant
Gravel (absent, rare, common, abundant)	rare
Pebbles (absent, rare, common, abundant)	rare
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	abundant
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	—
Lithology (estimated)	Medium Sand

Notes:

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Grab LOG

LIS2301 - - G032

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G 032	Date	2023-06-14
Project:	LIS 34	Time	09:56
Ship:	Weicker	Cruise ID/ Year:	
Location		Device	pinan grab
Form completed by	Kitsch S. Izzo	Institution	
Latitude	40° 57.079	Longitude	73° 19.762
Water depth (m)	18.3 m	Target ID:	T-31

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ Jar C 8 mud
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	gray
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	common
Gravel (absent, rare, common, abundant)	—
Pebbles (absent, rare, common, abundant)	—
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	abundant
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	yes
Lithology (estimated)	Sandy mud (medium size)

Notes:

3 worms

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Grab LOG

LIS 2301 - - 6033

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS 2301-6033	Date	2023-06-14
Project:	LIS 3A	Time	10:16
Ship:	Weicher	Cruise ID/ Year:	
Location		Device	ponar grab
Form completed by	S. Izzo	Institution	
Latitude	40° 56.717	Longitude	73° 21.722
Water depth (m)	13.6m	Target ID:	T-33

Grab description:

Surface photo	✓
Grain size sample (jar number)	Jar 42 42
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	Black
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	common
Gravel (absent, rare, common, abundant)	—
Pebbles (absent, rare, common, abundant)	—
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	common (small) (mm scale)
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	yes
Lithology (estimated)	Sandy mud

Notes:

2 worms

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Grab LOG

LIS2301 - - G034
 2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type
 (Example: LIS2301-G100)

Grab Name	LIS 2301 - G034	Date	2023-06-14
Project:	LIS 3A	Time	10:37
Ship:	Weiche	Cruise ID/ Year:	
Location		Device	ponam grab
Form completed by	S. Izzo	Institution	
Latitude	40° 57.644	Longitude	73° 21.082
Water depth (m)	15.1 m	Target ID:	T-35

Grab description:

Surface photo	✓
Grain size sample (jar number)	Jar 91
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark gray
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	common
Gravel (absent, rare, common, abundant)	—
Pebbles (absent, rare, common, abundant)	—
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	Common
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	no
Lithology (estimated)	Sandy mud

Notes:

2 worms

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Grab LOG

LIS2301 - - G035

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G 035	Date	2023-06-14
Project:	LIS3A	Time	10:56
Ship:		Cruise ID/ Year:	
Location	Weicher	Device	panam grab
Form completed by	S. T220	Institution	
Latitude	40° 57.905	Longitude	73° 20.093
Water depth (m)	17.5	Target ID:	T-37

Grab description:

Surface photo	yes
Grain size sample (jar number)	Jar 97 97
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark gray
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	rare
Gravel (absent, rare, common, abundant)	—
Pebbles (absent, rare, common, abundant)	—
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	—
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	no
Lithology (estimated)	Sandy mud

Notes: 1 worm

Lamont-Doherty Earth Observatory

Grab LOG

LIS 2301 - ~~G036~~ G036

2-Letter Ship Abbreviation	Cruise or 2-No. Year	Leg for EWING	grab Number	Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G036 G036	Date	2023-06-14
Project:	LIS 3A	Time	11:14
Ship:	Weicker	Cruise ID/ Year:	
Location		Device	ponom grab
Form completed by	S. Tzoo	Institution	
Latitude	40° 58.520	Longitude	73° 20.050
Water depth (m)	21.0 m	Target ID:	T-52

Grab description:

Surface photo	yes
Grain size sample (jar number)	Jar
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	black
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	rare
Gravel (absent, rare, common, abundant)	—
Pebbles (absent, rare, common, abundant)	—
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	—
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	yes
Lithology (estimated)	Mud

Notes:

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Grab LOG

LIS 2301 - - G037

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G037	Date	2023-06-14
Project:	LIS 3A	Time	11:36
Ship:	Weicker	Cruise ID/ Year:	
Location		Device	piston grab
Form completed by	S. Izzo	Institution	
Latitude	40° 58.660	Longitude	73° 21.748
Water depth (m)		Target ID:	T-56

Grab description:

Surface photo	✓
Grain size sample (jar number)	Jar 94
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	Black
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	—
Gravel (absent, rare, common, abundant)	—
Pebbles (absent, rare, common, abundant)	—
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	rare (mm scale)
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	yes
Lithology (estimated)	Mud

Notes:

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Grab LOG

LIS 2301 - - G 038

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G 038	Date	2023 - 06 - 14
Project:	LIS 3 A	Time	11:56
Ship:	Wickler	Cruise ID/ Year:	
Location		Device	ponon quet
Form completed by	S. Izzo	Institution	
Latitude	40° 59.234	Longitude	73° 21.135
Water depth (m)	24.6 m	Target ID:	T-45

Grab description:

Surface photo	✓
Grain size sample (jar number)	Jar 93
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	gray
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	common (coarse - medium)
Gravel (absent, rare, common, abundant)	—
Pebbles (absent, rare, common, abundant)	—
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	common, (mm scale)
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	No
Lithology (estimated)	Sandy mud

Notes:

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Grab LOG

LIS 2301 - - G039
 2-Letter Ship Cruise or Leg for grab Type
 Abbreviation 2-No. Year EWING Number
 (Example: LIS2301-G100)

Grab Name	LIS 2301 - G038	Date	2023-06-14
Project:	LIS 3A	Time	12:15
Ship:	Weicker	Cruise ID/ Year:	
Location		Device	ponan grab
Form completed by	S. Izzo	Institution	
Latitude	40° 59.351	Longitude	73° 21.949
Water depth (m)	24.7m	Target ID:	T-42

Grab description:

Surface photo	✓
Grain size sample (jar number)	Jar 44
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	very stiff
Color	Gray
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	Common (medium grain)
Gravel (absent, rare, common, abundant)	—
Pebbles (absent, rare, common, abundant)	—
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	Common
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	No
Lithology (estimated)	Sandy mud

Notes:

Lamont-Doherty Earth Observatory

Grab LOG

LIS 2301 - - G040

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G040		Date	2023-06-14	
Project:	LIS 3A		Time	12:36	
Ship:	weicker		Cruise ID/ Year:		
Location			Device	poner grab	
Form completed by	S. T. 220		Institution		
Latitude	40° 59.928		Longitude	73° 23.950	
Water depth (m)	17.6		Target ID:	T-32	

Grab description:

Surface photo	✓
Grain size sample (jar number)	Jar 49
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	Brownish gray
Mud (absent, rare, common, abundant)	rare
Sand (absent, rare, common, abundant)	abundant medium (medium coarse)
Gravel (absent, rare, common, abundant)	abundant
Pebbles (absent, rare, common, abundant)	rare
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	rare
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	— A
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	no
Lithology (estimated)	Gravelly sand

Notes:

Living organisms on shells (possibly hydrozoans)

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Grab LOG

LIS2301 - - 6041

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G041	Date	2023-06-14
Project:	LIS 3A	Time	12:58
Ship:	Weciver	Cruise ID/ Year:	
Location		Device	ponom grab
Form completed by	S. Izzo	Institution	
Latitude	41° 00.748	Longitude	73° 24.949
Water depth (m)	15.1 m	Target ID:	T-30

Grab description:

Surface photo	✓
Grain size sample (jar number)	Jar 50
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	Brownish grayish brown
Mud (absent, rare, common, abundant)	
Sand (absent, rare, common, abundant)	medium-coarse pebbly sand abundant (med-coarse)
Gravel (absent, rare, common, abundant)	abundant
Pebbles (absent, rare, common, abundant)	common
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	common (cm scale)
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	No
Lithology (estimated)	medium-coarse gravelly sand

Notes:

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Grab LOG

LIS2301 - - G042

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G042	Date	2023 - 06 - 14
Project:	LIS3A	Time	13:15
Ship:	Wic6pr	Cruise ID/ Year:	
Location		Device	ponar grab
Form completed by	S. Izzo	Institution	
Latitude	41° 00.767	Longitude	73° 29.820
Water depth (m)	22.0 m	Target ID:	T-22

Grab description:

Surface photo	✓
Grain size sample (jar number)	Jar 51
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	Greenish gray
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	rare (medium)
Gravel (absent, rare, common, abundant)	—
Pebbles (absent, rare, common, abundant)	—
Leaves (absent, rare, common, abundant)	rare
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	rare (small mm scale)
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	no
Lithology (estimated)	Sandy mud

Notes:

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Grab LOG

LIS2301 - - 643

2-Letter Ship Abbreviation	Cruise or 2-No. Year	Leg for EWING	grab Number	Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G043	Date	2023-06-14
Project:	LIS 3A	Time	13:33
Ship:	Wickner	Cruise ID/ Year:	
Location		Device	pupor grab
Form completed by	S. Izuo	Institution	
Latitude	41° 01.175	Longitude	73° 27.094
Water depth (m)	23.3	Target ID:	T-21

Grab description:

Surface photo	✓
Grain size sample (jar number)	Jar 84
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	black
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	common (medium-coarse)
Gravel (absent, rare, common, abundant)	—
Pebbles (absent, rare, common, abundant)	—
Leaves (absent, rare, common, abundant)	—
Wood (absent, rare, common, abundant)	—
Shells (absent, rare, common, abundant)	rare (mm scale)
Oysters (live/dead) (absent, rare, common, abundant)	—
Mussels (absent, rare, common, abundant)	—
Living vegetation (absent, rare, common, abundant)	—
Anthropogenic (brig, coal, slag etc)	—
H ₂ S smell (yes, no)	yes
Lithology (estimated)	Sandy mud

Notes:

- WIM

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Grab LOG

LIS 2301 - - G044

2-Letter Ship Abbreviation LIS Cruise or 2-No. Year 2301 Leg for EWING grab Number 044 Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G044	Date	2023 - 06 - 05
Project:	LIS 3A	Time	7:33
Ship:	W. P. C. H.	Cruise ID/ Year:	LIS 2301
Location		Device	ponom grab
Form completed by	F. Mitsch	Institution	
Latitude	41° 01.806	Longitude	73° 26.888
Water depth (m)	23.3m	Target ID:	T-6

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 114
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark green
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	rare fine
Gravel (absent, rare, common, abundant)	
Pebbles (absent, rare, common, abundant)	
Leaves (absent, rare, common, abundant)	
Wood (absent, rare, common, abundant)	
Shells (absent, rare, common, abundant)	rare (small) common
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	yes
Lithology (estimated)	sandy mud

Notes:

foraminifer?
possible corals

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Grab LOG

LIS2301 - - G045

2-Letter Ship Abbreviation LIS Cruise or 2-No. Year 2301 Leg for EWING grab Number 45 Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G045		Date	2023 - 06 - 15	
Project:	LIS 3A		Time	8:02	
Ship:	Weicker		Cruise ID/ Year:	LIS 2301	
Location			Device	ponan grab	
Form completed by	F. Nitsche		Institution		
Latitude	41° 01.133	Longitude	73° 23.810		
Water depth (m)	25.6m	Target ID:	T-60		

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 105
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark gray
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	common
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	rare
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	sandy mud

Notes:

maybe forams

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Grab LOG

LIS2301 - - G046

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G046	Date	2023-06-15
Project:	LIS 3A	Time	8:24
Ship:	Weicker	Cruise ID/ Year:	
Location		Device	ponam grab
Form completed by	F. Nitsche	Institution	
Latitude	41° 01.375	Longitude	73° 23.044
Water depth (m)	27.6	Target ID:	T-44

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 095
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark gray
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	common
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	sandy mud

Notes:

live worms

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Grab LOG

LIS 2301 - - GO 47

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - GO 47		Date	2023-06-15
Project:	LIS 3A		Time	08:46
Ship:	Wpichir		Cruise ID/ Year:	
Location			Device	ponar grab
Form completed by	F. Nitsche		Institution	
Latitude	41° 01.620	Longitude	73° 23.436	
Water depth (m)	28.0m	Target ID:	T-44	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 108
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	d. stiff
Color	dark green
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	very rare
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	-
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	sandy mud

Notes:

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Grab LOG

LIS 2301 - - G048
 2-Letter Ship Abbreviation LIS Cruise or 2-No. Year 2301 Leg for EWING grab Number 048 Type
 (Example: LIS2301-G100)

Grab Name	LIS 2301 - G048	Date	2022-06-55
Project:	LIS 3A	Time	9:06
Ship:	Wicker	Cruise ID/ Year:	
Location		Device	ponau grab
Form completed by	F. Nitgch	Institution	
Latitude	41° 02.012	Longitude	73° 23.588
Water depth (m)	23.0	Target ID:	T-55

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 90
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	brownish gray
Mud (absent, rare, common, abundant)	rare
Sand (absent, rare, common, abundant)	abundant
Gravel (absent, rare, common, abundant)	rare
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	common large
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	muddy coarse sand

Notes:

tube worms

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Grab LOG

LIS2301 - - G049

2-Letter Ship Cruise or
Abbreviation 2-No. Year Leg for grab Type
EWING Number

(Example: LIS2301-G100)

Grab Name LIS2301 - G049		Date 2023-06-15
Project: LIS3A		Time 09:26
Ship: Wicah		Cruise ID/ Year:
Location		Device piston grab
Form completed by F. Mitgoh		Institution
Latitude 41° 02.341	Longitude 73° 23.830	
Water depth (m) 20.6m	Target ID: T-41	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 88
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark gray
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	rare (fin)
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	rare abundant (small - mm scale)
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	sandy mud

Notes:

maybe forams
Manta shrimp

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Grab LOG

LIS 2301 - - G050

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G050	Date	2023-06-15
Project:	LIS 3A	Time	9:55
Ship:	Wicker	Cruise ID/ Year:	
Location		Device	ponom 705
Form completed by	Lola K.	Institution	
Latitude	41° 07.172	Longitude	73° 27.699
Water depth (m)	16.7m	Target ID:	T-54

Grab description:

Surface photo	✓
Grain size sample (jar number)	109 ✓
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	brownish grey
Mud (absent, rare, common, abundant)	rare
Sand (absent, rare, common, abundant)	abundant
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	common (medium size cm seash)
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	no
Lithology (estimated)	Sand (medium)

Notes:

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Grab LOG

LIS2301 - - G051
 2-Letter Ship Abbreviation LIS Cruise or 2-No. Year 301 Leg for EWING grab Number 051 Type
 (Example: LIS2301-G100)

Grab Name	LIS2301 - G051		Date	2023-06-15	
Project:	LIS 3A		Time	10:11	
Ship:	Weicher		Cruise ID/ Year:		
Location			Device	ponam grab	
Form completed by	Leh Kornfeld		Institution		
Latitude	41° 02.001		Longitude	73° 21.641	
Water depth (m)	20.3m		Target ID:	T-27	

Grab description:

Surface photo	✓
Grain size sample (jar number)	107
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	brownish grey
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	common (fine grained)
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	common (small mm scale)
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	no
Lithology (estimated)	Sandy mud

Notes: foraminiferous?
 cm-scale slug

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Grab LOG

LIS2301 - - G052

2-Letter Ship Cruise or Leg for grab Type
Abbreviation 2-No. Year EWING Number

(Example: LIS2301-G100)

Grab Name LIS 2301-G052		Date 2023-06-15
Project: LIS 3A		Time
Ship: Wricler		Cruise ID/ Year:
Location		Device penum grab
Form completed by Lele Kornfeld		Institution
Latitude 41° 01.456	Longitude 73° 20.859	
Water depth (m) 22.4 m	Target ID: T-58	

Grab description:

Surface photo	✓
Grain size sample (jar number)	092
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	gray (dark)
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	common
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	rare small mm scale
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	no
Lithology (estimated)	sandy mud

Notes:

W brm

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Grab LOG

LIS2301 - - G053

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name LIS 2301 - G053		Date 2023-06-15
Project: LIS 3A		Time 10:51
Ship: Weicker		Cruise ID/ Year:
Location		Device ponam grab
Form completed by ble Kornfeld		Institution
Latitude 41° 01.426	Longitude 73° 22.024	
Water depth (m) 22.4m	Target ID: T-59	

Grab description:

Surface photo	✓
Grain size sample (jar number)	060
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	brownish grey
Mud (absent, rare, common, abundant)	rare
Sand (absent, rare, common, abundant)	abundant
Gravel (absent, rare, common, abundant)	common
Pebbles (absent, rare, common, abundant)	
Leaves (absent, rare, common, abundant)	
Wood (absent, rare, common, abundant)	
Shells (absent, rare, common, abundant)	common large cum scale
Oysters (live/dead) (absent, rare, common, abundant)	
Mussels (absent, rare, common, abundant)	
Living vegetation (absent, rare, common, abundant)	
Anthropogenic (brig, coal, slag etc)	
H ₂ S smell (yes, no)	no
Lithology (estimated)	gravelly muddy sand

Notes:

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Grab LOG

LIS 2301 - - G 054

2-Letter Ship Cruise or Leg for grab Type
Abbreviation 2-No. Year EWING Number

(Example: LIS2301-G100)

Grab Name LIS 2301 - G 054		Date 2023-06-15
Project: LIS 34		Time 11:10
Ship: Weicker		Cruise ID/ Year:
Location		Device piston grab
Form completed by F. Nitzsch		Institution
Latitude 40° 59.945	Longitude 73° 21.344	
Water depth (m) 28.6m	Target ID: T-51	

Grab description:

Surface photo	✓
Grain size sample (jar number)	✓ jar 055
Oxidized top (yes, no)	✓ yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark gray
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	rare
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	abundant
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	-
Lithology (estimated)	mud

Notes:

forams ?

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Grab LOG

L152301 - - 6055

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	L152301 - 6055	Date	2023-06-15
Project:	L153A	Time	11:32
Ship:	Weiche	Cruise ID/ Year:	
Location		Device	ponum grab
Form completed by	Lela Kornfeld	Institution	
Latitude	40° 00.388	Longitude	73° 20.932
Water depth (m)	32.4m	Target ID:	T-48

Grab description:

Surface photo	✓
Grain size sample (jar number)	119
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark grey
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	rare
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	common (small mussel shells, fragments)
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	yes
Lithology (estimated)	Sandy mud

Notes:

foraminiferous?

Lamont-Doherty Earth Observatory

Grab LOG

LIS2301 - - G056

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name LIS 2301 - G056		Date 2023-06-15
Project: LIS 3A		Time 11:52
Ship: Weicher		Cruise ID/ Year:
Location		Device ponom grab
Form completed by Bela Korntfeld		Institution
Latitude 41° 0.608	Longitude 73° 19.763	
Water depth (m) 32.0	Target ID: T-40	

Grab description:

Surface photo	✓
Grain size sample (jar number)	89
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark grey
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	rare
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	abundant mm scale
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	no
Lithology (estimated)	Sandy mud

Notes:

foraminiferous?

Lamont-Doherty Earth Observatory

Grab LOG

LIS2301 - - G057

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G 057		Date	2023-06-15
Project:	LIS 3A		Time	12:19
Ship:	Weicker		Cruise ID/ Year:	
Location			Device	ponan grab
Form completed by	Lela Kornfeld		Institution	
Latitude	41° 00.719	Longitude	73° 20.357	
Water depth (m)	38.1 m	Target ID:	T-46	

Grab description:

Surface photo	✓
Grain size sample (jar number)	113
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark grey
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	common (medium sized)
Gravel (absent, rare, common, abundant)	✓ rare
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	common
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	cm scale slag
H ₂ S smell (yes, no)	no
Lithology (estimated)	Sandy mud

Notes:

- cm scale slag

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Grab LOG

LIS2301 - - G058

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name	LIS2301-G058	Date	2023-06-15
Project:	LIS3A	Time	12:46
Ship:	Wiciv	Cruise ID/ Year:	
Location		Device	panam 4005
Form completed by	leta kornfeld	Institution	
Latitude	41° 00.617	Longitude	73° 22.617
Water depth (m)	60.3	Target ID:	T-34

Grab description:

Surface photo	✓
Grain size sample (jar number)	87
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark grey
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	abundant (medium size)
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	common (mm scale)
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	yes
Lithology (estimated)	Sandy mud

Notes:

foraminiferous

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Grab LOG

LIS2301 - - G059

2-Letter Ship Abbreviation Cruise or 2-No. Year Leg for EWING grab Number Type

(Example: LIS2301-G100)

Grab Name LIS 2301 - G059		Date 2023-06-15
Project: LIS 3A		Time 13:23
Ship: Weicker		Cruise ID/ Year:
Location		Device ponar grab
Form completed by Lela Kornfeld		Institution
Latitude 40° 59.423	Longitude 73° 25.895	
Water depth (m) 43.8	Target ID: T-3	

Grab description:

Surface photo	✓
Grain size sample (jar number)	110
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	dark grey
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	~ rare
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	~ rare
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	yes
Lithology (estimated)	mxnd

Notes:

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Grab LOG

LIS 2301 - - G060

2-Letter Ship Cruise or Leg for grab Type
Abbreviation 2-No. Year EWING Number

(Example: LIS2301-G100)

Grab Name	LIS 2301 - G060	Date	2023-06-15
Project:	LIS 3A	Time	13:47
Ship:	Weicher	Cruise ID/ Year:	
Location		Device	ponom grab
Form completed by	Isla Kornfeld	Institution	
Latitude	40° 59.236	Longitude	73° 27.008
Water depth (m)	34.4	Target ID:	T-25

Grab description:

Surface photo	✓
Grain size sample (jar number)	054
Oxidized top (yes, no)	yes
Stiffness (very soft, soft, stiff, very stiff)	stiff
Color	black
Mud (absent, rare, common, abundant)	abundant
Sand (absent, rare, common, abundant)	rare
Gravel (absent, rare, common, abundant)	-
Pebbles (absent, rare, common, abundant)	-
Leaves (absent, rare, common, abundant)	-
Wood (absent, rare, common, abundant)	-
Shells (absent, rare, common, abundant)	Common
Oysters (live/dead) (absent, rare, common, abundant)	-
Mussels (absent, rare, common, abundant)	-
Living vegetation (absent, rare, common, abundant)	-
Anthropogenic (brig, coal, slag etc)	-
H ₂ S smell (yes, no)	yes
Lithology (estimated)	Mud

Notes: