

AUK 2017-043

STA 4634-4674

CRUISE: USGS AUK2017043  
 LOCATION: STELLWAGEN BANK NMS  
 MONTH YEAR: AUGUST 2017  
 LOCAL TIME: EDT

DAY OF MONTH LOCAL: AUG  
 DAY OF MONTH UTC: AUG  
 JD LOCAL: \_\_\_\_\_  
 JD UTC: \_\_\_\_\_

DAY  
 NIGHT  
 Sunset: Aug 22, 2017  
 1934 EDT = 2334 UTC

VIDEO FWD UPPER CAMERA FILE  
 VIDEO FWD LOWER CAMERA FILE

USGS STA		SBNMS SITE		CONSECUTIVE STA		QUAD	VIDEO CLIP
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input type="checkbox"/> WATER COLUMN	HH MM SS LOCAL	DPH, m	42 deg	min	-70 deg	min
				(nav file corr)	(min)	(nav file corr)	(min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg	min	-70 deg	min
				(nav file corr)	(min)	(nav file corr)	(min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg	min	42 deg	min
				(nav file corr)	(min)	(nav file corr)	(min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SMPL ATTEMPT <input type="checkbox"/> VIDEO END <input type="checkbox"/> OFF SEABED	HH MM SS LOCAL	DPH, m	42 deg	min	42 deg	min
				(nav file corr)	(min)	(nav file corr)	(min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg	min	42 deg	min
				(nav file corr)	(min)	(nav file corr)	(min)

UTC = EDT + 4 HRS, EST + 5 HRS  
 STATION DATE AND TIME, UTC  
 DDD : HH : MM : SS

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm  
 RIGHT \_\_\_\_\_ LEFT \_\_\_\_\_  
 SED VOL IN GRAB, liters  
 RT \_\_\_\_\_ + LFT \_\_\_\_\_ = \_\_\_\_\_

SAMPLES / DATA COLLECTED  
 SEDIMENT  CTD UPCAST  GPS NAV FILE  
 SAND LANCE  INVERTS  GRAB STILLs  
 VERT. PLNK. TOW  NO INVERTS PRESENT  WATER SPL

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		shells/fragments <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols			trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
herring			SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
	silver hake		SL nos: _____

- Invertebrate samples, plankton samples, and sand lance samples retained by Anna Robuck, URI.

- Note mistaken longitude degree labels on logbook form: 42 should read -70

- Lat/lon positions corrected using GPS nav. file

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 22	JD LOCAL 234	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 22	JD UTC 234	VIDEO FWD UPPER CAMERA FILE _____	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA FILE _____	
LOCAL TIME: EDT				

USGS STA 4634 PT	SBNMS SITE LSB9	CONSECUTIVE STA 1	QUAD 2	VIDEO CLIP —
<input checked="" type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 084138	DPH, m 63	42 deg 08.947 min (nav file corr 08.9574 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 085018	DPH, m 63	42 deg 08.424 min (nav file corr 08.4314 min)
<input type="checkbox"/> SAMPLE	HH MM SS LOCAL	DPH, m	42 deg	min 42 deg 70 min (nav file corr min) (nav file corr min)
<p>The time and location of a plankton tow were recorded in the log book as a courtesy to a non-USGS scientist sharing the cruise. No data (e.g. video, CTD, sediment sample) collected for USGS science purposes at this station.</p>				
<p>42 deg min 42 deg 70 min (nav file corr min) (nav file corr min)</p>				
<p>42 deg min 42 deg 70 min (nav file corr min) (nav file corr min)</p>				
<p>42 deg min 42 deg 70 min (nav file corr min) (nav file corr min)</p>				

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
234 12 41 38

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm	SED VOL IN GRAB, liters	SAMPLES / DATA COLLECTED	
RIGHT _____ LEFT _____	RT _____ + LFT _____ = _____	<input type="checkbox"/> SEDIMENT	<input type="checkbox"/> CTD UPCAST
horiz pl. tow ~ surface 2m 30am from Anna Robuck, URI		<input type="checkbox"/> SAND LANCE	<input type="checkbox"/> GPS NAV FILE
		<input type="checkbox"/> VERT. PLNK. TOW	<input type="checkbox"/> GRAB STILLS
		<input type="checkbox"/> NO INVERTS PRESENT	<input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Botenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail	tunicate, B pitu.	gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	yellow encr. spg	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		shells/fragments <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols			trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
herring			SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
	silver hake		SL nos:

CRUISE: USGS AUK2017043 LOCATION: STELLWAGEN BANK NMS MONTH YEAR: AUGUST 2017 LOCAL TIME: EDT	DAY OF MONTH LOCAL AUG 22	JD LOCAL 234	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
	DAY OF MONTH UTC AUG 22	JD UTC 234	VIDEO FWD UPPER CAMERA UP FILE 1884 VIDEO FWD LOWER CAMERA LO FILE 3968	

USGS STA 4635	SBNMS SITE LSB9	CONSECUTIVE STA 2	QUAD 2	VIDEO CLIP 316
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 090544	DPH, m 63	42 deg 9.123 min -70 deg 24.532 min (nav file corr 09.1223 min) (nav file corr 24.5311 min)
<input checked="" type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input checked="" type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 090744	DPH, m	42 deg 9.136 min -70 deg 24.538 min (nav file corr 09.1358 min) (nav file corr 24.5376 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 090748	DPH, m 63	42 deg 9.147 min 42 deg 24.534 min (nav file corr 09.1362 min) (nav file corr 24.5375 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
234 13 07 44

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 0, LEFT 0	SED VOL IN GRAB, liters RT 5.4 + LFT 5.4 = 10.8	<b>SAMPLES / DATA COLLECTED</b> <input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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*mud and shallower burrows, no rips*

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish		<i>worm tubes</i>	sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
finger spg	scallops	<i>14 mud</i>	sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 22	JD LOCAL 234	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 22	JD UTC 234	VIDEO FWD UPPER CAMERA <i>UP FILE malfunc.</i>	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA <i>LO FILE 3969?</i>	
LOCAL TIME: EDT				

USGS STA <i>4636</i>	SBNMS SITE <i>LSB3</i>	CONSECUTIVE STA <i>3</i>	QUAD <i>2</i>	VIDEO CLIP <i>34</i>	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL <i>094334</i>	DPH, m <i>62</i>	42 deg <i>6.586</i> min (nav file corr <i>06.5845</i> min)	-70 deg <i>23.891</i> min (nav file corr <i>23.8893</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <i>094604</i>	DPH, m	42 deg min (nav file corr <i>06.6038</i> min)	-70 deg min (nav file corr <i>23.8885</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL <i>094700</i>	DPH, m	42 deg <i>06.615</i> min (nav file corr min)	<i>42 deg 23.882</i> min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL <i>094740</i>	DPH, m	42 deg <i>06.615</i> min (nav file corr <i>06.6142</i> min)	<i>42 deg 23.882</i> min (nav file corr <i>23.8822</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
*234 13 47 40*

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT <i>0</i> LEFT <i>0</i>	SED VOL IN GRAB, liters RT <i>5.4</i> + LFT <i>5.4</i> = <i>10.8</i>	<b>SAMPLES / DATA COLLECTED</b> <input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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*mud, smt burrows*

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail	tunicate, B piltu.	gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	yellow encr. spg	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> smt <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 22	JD LOCAL 234	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 22	JD UTC 234	VIDEO FWD UPPER CAMERA VP FILE 1885	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA LO FILE 3970	
LOCAL TIME: EDT				

USGS STA 4637	SBNMS SITE LSB 2	CONSECUTIVE STA 4	QUAD 2	VIDEO CLIP 319
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 100706	DPH, m 61	42 deg 05.849 min -70 deg 23.371 min (nav file corr 05.8472 min) (nav file corr 23.3725 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 160932	DPH, m	42 deg min -70 deg min (nav file corr 05.8688 min) (nav file corr 23.3611 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 101108	DPH, m	42 deg 05.881 min 42 deg 23.352 min (nav file corr 05.8806 min) (nav file corr 23.3530 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
234 14 11 08

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 0 LEFT 0	SED VOL IN GRAB, liters RT 5.4 + LFT 5.4 = 10.8	<b>SAMPLES / DATA COLLECTED</b>
mud, small burrows		<input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILLTS <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring	✓ silver hake		SL nos:

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 22	JD LOCAL 234	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 22	JD UTC 234	VIDEO FWD UPPER CAMERA UP FILE 1886	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA LO FILE 3971	
LOCAL TIME: EDT				

USGS STA 4638	SBNMS SITE LSB1	CONSECUTIVE STA 5	QUAD 2	VIDEO CLIP 320
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 103008	DPH, m 61	42 deg 05.581 min -70 deg 21.984 min (nav file corr 05.5788 min) (nav file corr 21.9861 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 103230	DPH, m	42 deg min -70 deg min (nav file corr 05.6004 min) (nav file corr 21.9691 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 103350	DPH, m	42 deg 5.613 min 42 deg 21.956 min (nav file corr 05.6119 min) (nav file corr 21.9594 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
234 14 33 50

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 0 LEFT 0	SED VOL IN GRAB, liters RT 5.4 + LFT 5.4 = 10.8	SAMPLES / DATA COLLECTED <input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> STD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input type="checkbox"/> AT GRAB STILL <input type="checkbox"/> VERT. PLNK TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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mud, <sup>lg</sup> fine shells

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 22	JD LOCAL 234	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 22	JD UTC 234	VIDEO FWD UPPER CAMERA VP FILE 1887	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA LO FILE 3972	
LOCAL TIME: EDT				

USGS STA 4639	SBNMS SITE LSB6	CONSECUTIVE STA 6	QUAD 2	VIDEO CLIP 321
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 105514	DPH, m 64	42 deg 6.914 min -70 deg 21.650 min (nav file corr 06.9128 min) (nav file corr 21.6519 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 105720	DPH, m	42 deg min -70 deg min (nav file corr 06.9322 min) (nav file corr 21.6404 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 105904	DPH, m	42 deg 6.944 min 42 deg 21.631 min (nav file corr 06.9438 min) (nav file corr 21.6320 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
234 14 59 04

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 0.5 LEFT 0.5	SED VOL IN GRAB, liters RT 5.1 + LFT 5.1 = 10.2	SAMPLES / DATA COLLECTED <input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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mmud, burrows, lg + sm l

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boletia tunic.	<input checked="" type="checkbox"/> lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
finger spg	scal/ops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> smf <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043		DAY OF MONTH LOCAL	JD LOCAL	<input checked="" type="checkbox"/> DAY	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC				
LOCATION: STELLWAGEN BANK NMS		AUG 22	234	<input type="checkbox"/> NIGHT					
MONTH YEAR: AUGUST 2017		DAY OF MONTH UTC	JD UTC	VIDEO FWD	UP FILE	1888			
LOCAL TIME: EDT		AUG 22	234	UPPER CAMERA					
				VIDEO FWD	FILE	3973			
				LOWER CAMERA	LD				
USGS STA	4640	SBNMS SITE	LSB5	CONSECUTIVE STA	7	QUAD	2	VIDEO CLIP	322
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL	DPH, m	42 deg	6.271 min	-70 deg	19.996 min	(nav file corr 06.2685 min) (nav file corr 19.9963 min)	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg	min	-70 deg	min	(nav file corr 06.3030 min) (nav file corr 19.9953 min)	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg	min	42 deg	min	(nav file corr min) (nav file corr min)	
<input checked="" type="checkbox"/> STA LOC	<input type="checkbox"/> SMPL ATTEMPT <input type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL	DPH, m	42 deg	6.324 min	42 deg	19.998 min	(nav file corr 06.3226 min) (nav file corr 19.9986 min)	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg	min	42 deg	min	(nav file corr min) (nav file corr min)	

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
234 15 24 58

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm	SED VOL IN GRAB, liters	SAMPLES / DATA COLLECTED		
RIGHT 0.5    LEFT 0.5	RT 5.1 + LFT 5.1 = 10.2	<input checked="" type="checkbox"/> SEDIMENT	<input checked="" type="checkbox"/> CTD UPCAST	<input checked="" type="checkbox"/> GPS NAV FILE
mud, gravel		<input type="checkbox"/> SAND LANCE	<input checked="" type="checkbox"/> INVERTS	<input type="checkbox"/> GRAB STILLS
		<input type="checkbox"/> VERT. PLNK. TOW	<input type="checkbox"/> NO INVERTS PRESENT	<input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
<input type="checkbox"/> att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
<input type="checkbox"/> brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
<input type="checkbox"/> bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> cancer crab	mussels	tunicate, B pilu.	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cunner	red hake		mud <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dk yellow spg	sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> finger spg	scallops	hake	sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> flounder	sculpin	School	sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
<input type="checkbox"/> herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 22	JD LOCAL 234	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 22	JD UTC 234	VIDEO FWD UPPER CAMERA <i>UP</i> FILE 1889	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA <i>LO</i> FILE 3974	
LOCAL TIME: EDT				

USGS STA <i>4641</i>	SBNMS SITE <i>LSB4</i>	CONSECUTIVE STA <i>8</i>	QUAD <i>2</i>	VIDEO CLIP <i>323</i>	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL <i>114242</i>	DPH, m <i>62</i>	42 deg <i>5.370</i> min (nav file corr <i>05.3684</i> min)	-70 deg <i>19.546</i> min (nav file corr <i>19.5450</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <i>114506</i>	DPH, m	42 deg min	-70 deg min (nav file corr <i>05.4041</i> min) (nav file corr <i>19.5436</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min	42 deg min (nav file corr min) (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL <i>114640</i>	DPH, m	42 deg <i>5.425</i> min (nav file corr <i>05.4242</i> min)	<i>42 deg</i> <i>19.541</i> min (nav file corr <i>19.5410</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min	42 deg min (nav file corr min) (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
*234 15 46 40*

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT <i>0</i> LEFT <i>0</i>	SED VOL IN GRAB, liters RT <i>5.4</i> + LFT <i>5.4</i> = <i>10.8</i>	SAMPLES / DATA COLLECTED		
<i>mud, sml burr</i>		<input type="checkbox"/> SEDIMENT	<input checked="" type="checkbox"/> CTD UPCAST	<input checked="" type="checkbox"/> GPS NAV FILE
		<input type="checkbox"/> SAND LANCE	<input checked="" type="checkbox"/> INVERTS	<input type="checkbox"/> GRAB STILL
		<input type="checkbox"/> VERT. PLNK. TOW	<input type="checkbox"/> NO INVERTS PRESENT	<input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum coils		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

<b>CRUISE:</b> USGS AUK2017043	<b>DAY OF MONTH LOCAL</b> AUG 22	<b>JD LOCAL</b> 234	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	<b>Sunset:</b> Aug 22, 2017 1934 EDT = 2334 UTC
<b>LOCATION:</b> STELLWAGEN BANK NMS	<b>DAY OF MONTH UTC</b> AUG 22	<b>JD UTC</b> 234	<b>VIDEO FWD UPPER CAMERA</b> UP FILE 1890	
<b>MONTH YEAR:</b> AUGUST 2017			<b>VIDEO FWD LOWER-CAMERA</b> LO FILE 3975	
<b>LOCAL TIME:</b> EDT				

<b>USGS STA</b> 4642	<b>SBNMS SITE</b> LSB 12	<b>CONSECUTIVE STA</b> 9	<b>QUAD</b> 2	<b>VIDEO CLIP</b> 324
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	<b>HH MM SS LOCAL</b> 120836	<b>DPH, m</b> 66	42 deg 7.322 min (nav file corr 07.3194 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	<b>HH MM SS LOCAL</b> 121102	<b>DPH, m</b>	42 deg min -70 deg min (nav file corr 07.3631 min) (nav file corr 18.2180 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	<b>HH MM SS LOCAL</b>	<b>DPH, m</b>	42 deg min 42 deg min (nav file corr min) (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	<b>HH MM SS LOCAL</b> 121220	<b>DPH, m</b>	42 deg 7.377 min 42 deg 18.217 min (nav file corr 07.3768 min) (nav file corr 18.2176 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	<b>HH MM SS LOCAL</b>	<b>DPH, m</b>	42 deg min 42 deg min (nav file corr min) (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      **STATION DATE AND TIME, UTC**      DDD : HH : MM : SS  
234 16 12 20

**NO SEDIMENT SAMPLE:**     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

<b>DPH TO SED SURF IN GRAB, cm</b> RIGHT 2, LEFT 2	<b>SED VOL IN GRAB, liters</b> RT 4.5 + LFT 4.5 = 9.0	<b>SAMPLES / DATA COLLECTED</b>
		<input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILLs <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail	tunicate, B pilu.	gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	yellow encr. spg	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> ceri burr anem	ocean pout		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 22	JD LOCAL 234	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 22	JD UTC 234	VIDEO FWD UPPER CAMERA <i>UP</i> FILE 1891	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA <i>LO</i> FILE 3976	
LOCAL TIME: EDT				

USGS STA <i>4643</i>	SBNMS SITE <i>LSB 11</i>	CONSECUTIVE STA <i>10</i>	QUAD <i>2</i>	VIDEO CLIP <i>325</i>
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL <i>123046</i>	DPH, m <i>65</i>	42 deg <i>6.723</i> min (nav file corr <i>06.7197</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <i>123254</i>	DPH, m	42 deg <i>0.457</i> min (nav file corr <i>06.7685</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL <i>123420</i>	DPH, m	42 deg <i>6.793</i> min (nav file corr <i>06.7915</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
*234 16 34 20*

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT <u>1</u> , LEFT <u>1</u>	SED VOL IN GRAB, liters RT <u>4.9</u> +LFT <u>4.9</u> = <u>9.8</u>	SAMPLES / DATA COLLECTED <input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltonia tunic.	<input checked="" type="checkbox"/> lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA <i>UP</i> FILE <i>malfunc</i>	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER-CAMERA <i>LO</i> FILE <i>3977</i>	
LOCAL TIME: EDT				

USGS STA <i>4644</i>	SBNMS SITE <i>LSB10</i>	CONSECUTIVE STA <i>11</i>	QUAD <i>2</i>	VIDEO CLIP <i>326</i>	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL <i>094606</i>	DPH, m <i>63</i>	42 deg <i>6.073</i> min (nav file corr <i>06.0727</i> min)	-70 deg <i>17.005</i> min (nav file corr <i>17.0077</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <i>094804</i>	DPH, m	42 deg min	-70 deg min (nav file corr <i>06.0737</i> min) (nav file corr <i>16.9878</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL <i>094940</i>	DPH, m	42 deg <i>06.068</i> min (nav file corr <i>06.0677</i> min)	42 deg <i>16.983</i> min (nav file corr <i>16.9855</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
*235 13 49 40*

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT <i>0.5</i> LEFT <i>0.5</i>	SED VOL IN GRAB, liters RT <i>5.1</i> + LFT <i>5.1</i> = <i>10.2</i>	SAMPLES / DATA COLLECTED <input checked="" type="checkbox"/> SEDIMENT <input type="checkbox"/> CTD UPCAST <input type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
<i>muddy; tubes, smpl rips</i>		

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		<i>muddy</i> <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring	<input checked="" type="checkbox"/> silver hake		SL nos:

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA UP FILE 1893	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA LD FILE 3978	
LOCAL TIME: EDT				

USGS STA 4645	SBNMS SITE R28	CONSECUTIVE STA 12	QUAD 2	VIDEO CLIP 327
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 101224	DPH, m 61	42 deg 5.101 min (nav file corr 05.1027 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 101450	DPH, m	42 deg min (nav file corr 05.0783 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 101546	DPH, m	42 deg 5.070 min (nav file corr 05.0709 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)
				42 deg 14.555 min (nav file corr 14.5514 min)
				42 deg min (nav file corr 14.5872 min)
				42 deg min (nav file corr min)
				42 deg 14.597 min (nav file corr 14.5956 min)
				42 deg min (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 14 15 46

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 7, LEFT	SED VOL IN GRAB, liters RT 2.3 + LFT 1.9 = 4.2	<b>SAMPLES / DATA COLLECTED</b>
		<input checked="" type="checkbox"/> SEDIMENT <input type="checkbox"/> STD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL

*r-rippled clean sand; 1 oyster bedforms*

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	<input checked="" type="checkbox"/> sand dollars <i>ab</i>		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043		DAY OF MONTH LOCAL	JD LOCAL	<input checked="" type="checkbox"/> DAY	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS		AUG 23	235	<input type="checkbox"/> NIGHT	
MONTH YEAR: AUGUST 2017		DAY OF MONTH UTC	JD UTC	VIDEO FWD UPPER CAMERA	FILE 1894
LOCAL TIME: EDT		AUG 23	235	VIDEO FWD LOWER CAMERA	FILE 3979
USGS STA	4646	SBNMS SITE	R27	CONSECUTIVE STA	13
				QUAD	2
				VIDEO CLIP	328
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 103146	DPH, m 58	42 deg 5.539 min (nav file corr 05.5386 min)	-70 deg 13.567 min (nav file corr 13.5640 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 103348	DPH, m	42 deg min	-70 deg min (nav file corr 05.5372 min) (nav file corr 13.5916 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min	42 deg min (nav file corr min) (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 003648	DPH, m	42 deg 5.537 min (nav file corr 05.5369 min)	42 deg 13.627 min (nav file corr 13.6248 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min	42 deg min (nav file corr min) (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 14 36 48

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 3.5    LEFT 4	SED VOL IN GRAB, liters RT 3.8 + LFT 3.6 = 7.4	<b>SAMPLES / DATA COLLECTED</b>
rpt 5m		<input checked="" type="checkbox"/> SEDIMENT <input type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
alt epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail	tunicate, B pilu.	gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	yellow encr. spg	small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	<input checked="" type="checkbox"/> sand dollars <i>v. ab</i>		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043 LOCATION: STELLWAGEN BANK NMS MONTH YEAR: AUGUST 2017 LOCAL TIME: EDT	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA <i>UP</i> FILE <i>malfunc</i> VIDEO FWD LOWER CAMERA <i>LO</i> FILE <i>3980</i>	

USGS STA <i>4647</i>	SBNMS SITE <i>R12</i>	CONSECUTIVE STA <i>14</i>	QUAD <i>2</i>	VIDEO CLIP <i>329</i>	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL <i>105352</i>	DPH, m <i>64</i>	42 deg <i>6.282</i> min (nav file corr <i>06.2822</i> min)	-70 deg <i>15.476</i> min (nav file corr <i>15.4762</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <i>105600</i>	DPH, m	42 deg min (nav file corr <i>06.2917</i> min)	-70 deg min (nav file corr <i>15.4809</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL <i>105716</i>	DPH, m	42 deg <i>6.296</i> min (nav file corr <i>06.2953</i> min)	<i>42 deg 15.484</i> min (nav file corr <i>15.4835</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
*235 14 57 16*

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT <i>9.5</i> LEFT <i>8</i>	SED VOL IN GRAB, liters RT <i>1.3</i> + LFT <i>1.9</i> = <i>3.2</i>	SAMPLES / DATA COLLECTED	
<i>rip sand</i>		<input checked="" type="checkbox"/> SEDIMENT	<input checked="" type="checkbox"/> CTD UPCAST
		<input type="checkbox"/> SAND LANCE	<input checked="" type="checkbox"/> GPS NAV FILE
		<input checked="" type="checkbox"/> INVERTS	<input checked="" type="checkbox"/> GRAB STILL
		<input type="checkbox"/> VERT. PLNK. TOW	<input type="checkbox"/> NO INVERTS PRESENT
		<input type="checkbox"/> WATER SPL	

			SEABED DESCRIPTION
<input type="checkbox"/>	att epifauna	herring eggs	skate
<input type="checkbox"/>	Boltenia tunic.	lobster	Suberites spg
<input type="checkbox"/>	brachiopod	monkfish	squid
<input type="checkbox"/>	bushy bry/hyd	moon snail	
<input checked="" type="checkbox"/>	cancer crab	mussels	tunicate, B pilu.
<input type="checkbox"/>	ceri burr anem	ocean pout	yellow encr. spg
<input type="checkbox"/>	cod; cod juvenile		
<input type="checkbox"/>	ctenophores	Polymastia spg	
<input type="checkbox"/>	coralline algae	red encr. spg	
<input type="checkbox"/>	cunner	red hake	
<input type="checkbox"/>	dk yellow spg	sand dollars	
<input type="checkbox"/>	Didemnum cols		shells/fragments
<input type="checkbox"/>	dogfish		
<input type="checkbox"/>	finger spg	scallops	
<input type="checkbox"/>	flounder	sculpin	
<input type="checkbox"/>	haddock	sea stars	
<input type="checkbox"/>	herring		
<input type="checkbox"/>		silver hake	

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA <sup>TOP</sup> FILE <i>walfunc.</i>	FILE <i>walfunc.</i>
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA <sup>LO</sup> FILE 3981	FILE 3981
LOCAL TIME: EDT				

USGS STA 4648	SBNMS SITE RL3	CONSECUTIVE STA 15	QUAD 2	VIDEO CLIP 330
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 110836	DPH, m 64	42 deg 06.810 min (nav file corr 06.8094 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 111032	DPH, m	-70 deg 15.437 min (nav file corr 15.4354 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 111222	DPH, m	42 deg 06.829 min (nav file corr 06.8285 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)
				42 deg 15.454 min (nav file corr 15.4511 min)

UTC = EDT + 4 HRS, EST + 5 HRS

STATION DATE AND TIME, UTC

DDD : HH : MM : SS  
235 15 12 22

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 9 LEFT 8.5	SED VOL IN GRAB, liters RT 1.5 + LFT 1.7 = 3.2	SAMPLES / DATA COLLECTED
		<input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
<input type="checkbox"/> att epifauna	<input type="checkbox"/> herring eggs	<input type="checkbox"/> skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Boltenia tunic.	<input type="checkbox"/> lobster	<input type="checkbox"/> Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
<input type="checkbox"/> brachiopod	<input type="checkbox"/> monkfish	<input type="checkbox"/> squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
<input type="checkbox"/> bushy bry/hyd	<input type="checkbox"/> moon snail	<input type="checkbox"/> tunicate, B pilu.	gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> cancer crab	<input type="checkbox"/> mussels	<input type="checkbox"/> yellow encr. spg	small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ceri burr anem	<input type="checkbox"/> ocean pout		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ctenophores	<input type="checkbox"/> Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> coralline algae	<input type="checkbox"/> red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cunner	<input checked="" type="checkbox"/> red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dk yellow spg	<input type="checkbox"/> sand dollars		trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Didemnum cols		<input type="checkbox"/> shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> finger spg	<input type="checkbox"/> scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> flounder	<input type="checkbox"/> sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> haddock	<input type="checkbox"/> sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
<input type="checkbox"/> herring			SL nos:
	<input type="checkbox"/> silver hake		

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA UP FILE 1895	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA LO FILE 3982	
LOCAL TIME: EDT				

USGS STA 4649	SBNMS SITE R15	CONSECUTIVE STA 16	QUAD 2	VIDEO CLIP 331	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 1124 56	DPH, m 63	42 deg 7.306 min (nav file corr 07.3054 min)	-70 deg 16.650 min (nav file corr 16.6491 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 1126 44	DPH, m	42 deg min (nav file corr 07.3142 min)	-70 deg min (nav file corr 16.6591 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 1127 54	DPH, m	42 deg 7.316 min (nav file corr 07.3153 min)	42 deg 16.665 min (nav file corr 16.6643 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 15 27 54

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 10.5    LEFT 26	SED VOL IN GRAB, liters RT 1.0 + LFT 2.7 = 3.7	<b>SAMPLES / DATA COLLECTED</b> <input checked="" type="checkbox"/> SEDIMENT <input type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input type="checkbox"/> GRAB STILLs <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples ? <input type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	<input checked="" type="checkbox"/> red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043		DAY OF MONTH LOCAL	JD LOCAL	<input checked="" type="checkbox"/> DAY	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC				
LOCATION: STELLWAGEN BANK NMS		AUG 23	235	<input type="checkbox"/> NIGHT					
MONTH YEAR: AUGUST 2017		DAY OF MONTH UTC	JD UTC	VIDEO FWD	UP FILE	1896			
LOCAL TIME: EDT		AUG 23	235	UPPER CAMERA	LO FILE	3983			
VIDEO FWD	LOWER CAMERA								
USGS STA	4650	SBNMS SITE	R14	CONSECUTIVE STA	17	QUAD	2	VIDEO CLIP	332
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL	DPH, m	42 deg	7.323 min	-70 deg	15.866 min		
		113804	62	(nav file corr 07.3227 min)		(nav file corr 15.8649 min)			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg		-70 deg			
		113948		(nav file corr 07.3317 min)		(nav file corr 15.8690 min)			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg		42 deg			
				(nav file corr min)		(nav file corr min)			
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL	DPH, m	42 deg	7.345 min	42 deg	15.882 min		
		114242		(nav file corr 07.3451 min)		(nav file corr 15.8813 min)			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg		42 deg			
				(nav file corr min)		(nav file corr min)			

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 15 42 42

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm	SED VOL IN GRAB, liters	SAMPLES / DATA COLLECTED		
RIGHT 7, LEFT 7	RT 2.3 + LFT 2.3 = 4.6	<input checked="" type="checkbox"/> SEDIMENT	<input checked="" type="checkbox"/> CTD UPCAST	<input checked="" type="checkbox"/> GPS NAV FILE
rip shd		<input type="checkbox"/> SAND LANCE	<input checked="" type="checkbox"/> INVERTS	<input checked="" type="checkbox"/> GRAB STILL
		<input type="checkbox"/> VERT. PLNK. TOW	<input type="checkbox"/> NO INVERTS PRESENT	<input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
<input type="checkbox"/> alt epifauna	<input type="checkbox"/> herring eggs	<input type="checkbox"/> skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Boltenia tunic.	<input type="checkbox"/> lobster	<input type="checkbox"/> Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
<input type="checkbox"/> brachiopod	<input type="checkbox"/> monkfish	<input type="checkbox"/> squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
<input type="checkbox"/> bushy bry/hyd	<input type="checkbox"/> moon snail	<input type="checkbox"/> tunicate, B pilu.	grvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> cancer crab	<input type="checkbox"/> mussels	<input type="checkbox"/> yellow encr. spg	small ripples <i>intermitt</i> <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> ceri burr anem	<input type="checkbox"/> ocean pout		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ctenophores	<input type="checkbox"/> Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> coralline algae	<input type="checkbox"/> red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cunner	<input type="checkbox"/> red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dk yellow spg	<input type="checkbox"/> sand dollars		trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Didemnum cols		<input type="checkbox"/> shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> finger spg	<input checked="" type="checkbox"/> scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> flounder	<input type="checkbox"/> sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> haddock	<input type="checkbox"/> sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
<input type="checkbox"/> herring	<input type="checkbox"/> silver hake		SL nos:

AREA OF VAN VEEN GRAB = 0.1 SQ M; MAX DEPTH = 15 CM, VOLUME = 10.8 LITERS  
DISTANCE BETWEEN PARALLEL LASERS = 20 CM  
PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION 4650  
SBNMS Site R14, CONSEC STA 17

CRUISE: USGS AUK2017043		DAY OF MONTH LOCAL	JD LOCAL	<input checked="" type="checkbox"/> DAY	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS		AUG 23	235	<input type="checkbox"/> NIGHT	
MONTH YEAR: AUGUST 2017		DAY OF MONTH UTC	JD UTC	VIDEO FWD	UP FILE 1897
LOCAL TIME: EDT		AUG 23	235	LOWER CAMERA	LO FILE 3984
USGS STA	4651	SBNMS SITE	R24	CONSECUTIVE STA	18
				QUAD	2
				VIDEO CLIP	333
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 115602	DPH, m 58	42 deg 7.271 min (nav file corr 07.2712 min)	-70 deg 14.188 min (nav file corr 14.1887 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 115738	DPH, m	42 deg min (nav file corr 07.2873 min)	-70 deg min (nav file corr 14.1811 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 115948	DPH, m	42 deg 7.296 min (nav file corr 07.2960 min)	42 deg 14.187 min (nav file corr 14.1867 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 15 59 48

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm	SED VOL IN GRAB, liters	SAMPLES / DATA COLLECTED		
RIGHT 9.5    LEFT 10.5	RT 1.3 + LFT 1.0 = 2.3	<input checked="" type="checkbox"/> SEDIMENT	<input checked="" type="checkbox"/> CTD UPCAST	<input checked="" type="checkbox"/> GPS NAV FILE
intermitt v-p sand / csl hld gravel		<input type="checkbox"/> SAND LANCE	<input checked="" type="checkbox"/> INVERTS	<input checked="" type="checkbox"/> GRAB STILL
		<input type="checkbox"/> VERT. PLNK. TOW	<input type="checkbox"/> NO INVERTS PRESENT	<input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	<input checked="" type="checkbox"/> ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cots		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	<input checked="" type="checkbox"/> scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043		DAY OF MONTH LOCAL	JD LOCAL	<input checked="" type="checkbox"/> DAY	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC				
LOCATION: STELLWAGEN BANK NMS		AUG 23	235	<input type="checkbox"/> NIGHT					
MONTH YEAR: AUGUST 2017		DAY OF MONTH UTC	JD UTC	VIDEO FWD UPPER CAMERA	UP FILE	mal func.			
LOCAL TIME: EDT		AUG 23	235	VIDEO FWD LOWER CAMERA	LO FILE	3985			
USGS STA	4652	SBNMS SITE	R23	CONSECUTIVE STA	19	QUAD	2	VIDEO CLIP	334
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL	DPH, m	42 deg	7.246 min	-70 deg	13.610 min	(nav file corr 07.2448 min) (nav file corr 13.6102 min)	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg	min	-70 deg	min	(nav file corr 07.2598 min) (nav file corr 13.6043 min)	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg	min	42 deg	min	(nav file corr min) (nav file corr min)	
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL	DPH, m	42 deg	7.263 min	42 deg	13.618 min	(nav file corr 07.2627 min) (nav file corr 13.6176 min)	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg	min	42 deg	min	(nav file corr min) (nav file corr min)	

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 16 13 12

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm	SED VOL IN GRAB, liters	SAMPLES / DATA COLLECTED		
RIGHT / LEFT /	RT / +LFT / = /	<input type="checkbox"/> SEDIMENT	<input checked="" type="checkbox"/> CTD UPCAST	<input checked="" type="checkbox"/> GPS NAV FILE
rip sand / pc G		<input type="checkbox"/> SAND LANCE	<input type="checkbox"/> INVERTS	<input type="checkbox"/> GRAB STILL
		<input type="checkbox"/> VERT. PLNK. TOW	<input type="checkbox"/> NO INVERTS PRESENT	<input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
<input type="checkbox"/>	att epifauna	herring eggs	skate
<input type="checkbox"/>	Boltenia tunic.	lobster	Suberites spg
<input type="checkbox"/>	brachiopod	monkfish	squid
<input type="checkbox"/>	bushy bry/hyd	moon snail	tunicate, B pilu.
<input type="checkbox"/>	cancer crab	mussels	yellow encr. spg
<input checked="" type="checkbox"/>	ceri burr anem	ocean pout	
<input type="checkbox"/>	cod; cod juvenile		
<input type="checkbox"/>	ctenophores	Polymastia spg	
<input type="checkbox"/>	coralline algae	red encr. spg	
<input type="checkbox"/>	cunner	red hake	
<input type="checkbox"/>	dk yellow spg	sand dollars	
<input type="checkbox"/>	Didemnum cols		shells/fragments
<input type="checkbox"/>	dogfish		
<input type="checkbox"/>	finger spg	scallops	
<input type="checkbox"/>	flounder	sculpin	
<input type="checkbox"/>	haddock	sea stars	
<input type="checkbox"/>	herring		
<input type="checkbox"/>		silver hake	

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA <sup>VP</sup> FILE <i>malFunc</i>	VIDEO FWD LOWER CAMERA <sup>LO</sup> FILE 3986
MONTH YEAR: AUGUST 2017				
LOCAL TIME: EDT				

USGS STA 4653	SBNMS SITE R26	CONSECUTIVE STA 20	QUAD 2	VIDEO CLIP 335
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 124140	DPH, m 56	42 deg 8.094 min -70 deg 13.614 min (nav file corr 08.0938 min) (nav file corr 13.6189 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 124322	DPH, m	42 deg min -70 deg min (nav file corr 08.0982 min) (nav file corr 13.5963 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 124550	DPH, m	42 deg 8.164 min 42 deg 13.580 min (nav file corr 08.1037 min) (nav file corr 13.5820 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 : 16 : 45 : 50

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 8    LEFT 8.5	SED VOL IN GRAB, liters RT 1.9 + LFT 1.7 = 3.6	<b>SAMPLES / DATA COLLECTED</b> <input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples <sup>int</sup> <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA <i>UP FILE malfunc</i>	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA <i>LD FILE 3987</i>	
LOCAL TIME: EDT				

USGS STA 4654	SBNMS SITE R25	CONSECUTIVE STA 21	QUAD 2	VIDEO CLIP 336
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 125806	DPH, m 56	42 deg 8.142 min (nav file corr 08.1414 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 125954	DPH, m	-70 deg 14.359 min (nav file corr 14.3623 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 1	DPH, m	42 deg min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 130142	DPH, m	42 deg 08.170 min (nav file corr 08.1690 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)
				42 deg 14.322 min (nav file corr 14.3232 min)

UTC = EDT + 4 HRS, EST + 5 HRS

STATION DATE AND TIME, UTC

DDD : HH : MM : SS  
235 17 01 42

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 10.5 LEFT 10.5	SED VOL IN GRAB, liters RT 1.0 + LFT 1.0 = 2.0	<b>SAMPLES / DATA COLLECTED</b>
<i>125 v-p sand,</i>		<input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> STD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE
		<input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL
		<input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples <i>100%</i> <input type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA <i>JP</i> FILE <i>walfunc</i>	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA <i>LO</i> FILE <i>3988</i>	
LOCAL TIME: EDT				

USGS STA <i>4655</i>	SBNMS SITE <i>R18</i>	CONSECUTIVE STA <i>22</i>	QUAD <i>2</i>	VIDEO CLIP <i>337</i>	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL <i>131558</i>	DPH, m <i>58</i>	42 deg <i>8.081</i> min (nav file corr <i>08.0791</i> min)	-70 deg <i>15.281</i> min (nav file corr <i>15.2929</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <i>131744</i>	DPH, m	42 deg min	-70 deg min (nav file corr <i>08.0979</i> min) (nav file corr <i>15.2797</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL <i>131924</i>	DPH, m	42 deg <i>6.109</i> min (nav file corr <i>08.1080</i> min)	<i>42 deg</i> <i>15.279</i> min (nav file corr <i>15.2790</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
*235 17 19 24*

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT <i>10.5</i> LEFT <i>8.5</i>	SED VOL IN GRAB, liters RT <i>1.0</i> + LFT <i>1.7</i> = <i>2.7</i>	SAMPLES / DATA COLLECTED <input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILLs <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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			SEABED DESCRIPTION
<input type="checkbox"/> att epifauna	<input checked="" type="checkbox"/> herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Botenia tunic.	<input checked="" type="checkbox"/> lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
<input type="checkbox"/> brachiopod	<input type="checkbox"/> monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
<input type="checkbox"/> bushy bry/hyd	<input type="checkbox"/> moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> cancer crab	<input type="checkbox"/> mussels	tunicate, B pilu.	small ripples <i>int</i> <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> ceri burr anem	<input type="checkbox"/> ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ctenophores	<input type="checkbox"/> Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> coralline algae	<input type="checkbox"/> red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cunner	<input checked="" type="checkbox"/> red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dk yellow spg	<input type="checkbox"/> sand dollars		trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dogfish			sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
<input type="checkbox"/> finger spg	<input type="checkbox"/> scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> flounder	<input checked="" type="checkbox"/> sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> haddock	<input type="checkbox"/> sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
<input type="checkbox"/> herring	<input checked="" type="checkbox"/> silver hake		SL nos:

CRUISE: USGS AUK2017043		DAY OF MONTH LOCAL	JD LOCAL	<input checked="" type="checkbox"/> DAY	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS		AUG 23	235	<input type="checkbox"/> NIGHT	
MONTH YEAR: AUGUST 2017		DAY OF MONTH UTC	JD UTC	VIDEO FWD UPPER CAMERA <i>UP</i> FILE <i>malfunc</i>	
LOCAL TIME: EDT		AUG 23	235	VIDEO FWD LOWER CAMERA <i>LO</i> FILE <i>malfunc</i>	
USGS STA <i>4656</i>	SBNMS SITE <i>R17</i>	CONSECUTIVE STA <i>23</i>		QUAD <i>2</i>	VIDEO CLIP <i>338</i>
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL <i>133424</i>	DPH, m <i>60</i>	42 deg <i>8.138</i> min (nav file corr <i>08.1371</i> min)	-70 deg <i>16.293</i> min (nav file corr <i>16.2946</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <i>133610</i>	DPH, m	42 deg min (nav file corr <i>08.1522</i> min)	-70 deg min (nav file corr <i>16.2811</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL <i>133832</i>	DPH, m	42 deg <i>8.172</i> min (nav file corr <i>08.1702</i> min)	<i>42 deg</i> <i>16.265</i> min (nav file corr <i>16.2675</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
 235 17 38 32

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT <i>11</i> , LEFT <i>10</i>	SED VOL IN GRAB, liters RT <i>0.8</i> + LFT <i>1.2</i> = <i>2.0</i>	SAMPLES / DATA COLLECTED		
<i>r: p Sand</i>		<input checked="" type="checkbox"/> SEDIMENT	<input checked="" type="checkbox"/> CTD UPCAST	<input type="checkbox"/> GPS NAV FILE
		<input type="checkbox"/> SAND LANCE	<input checked="" type="checkbox"/> INVERTS	<input checked="" type="checkbox"/> GRAB STILL
		<input type="checkbox"/> VERT. PLNK. TOW	<input type="checkbox"/> NO INVERTS PRESENT	<input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
<input type="checkbox"/> att epifauna	<input type="checkbox"/> herring eggs	<input type="checkbox"/> skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Botlenia tunic.	<input type="checkbox"/> lobster	<input type="checkbox"/> Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
<input type="checkbox"/> brachiopod	<input type="checkbox"/> monkfish	<input type="checkbox"/> squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
<input type="checkbox"/> bushy bry/hyd	<input type="checkbox"/> moon snail	<input type="checkbox"/> tunicate, B pilu.	gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> cancer crab	<input type="checkbox"/> mussels	<input type="checkbox"/> yellow encr. spg	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ceri burr anem	<input type="checkbox"/> ocean pout		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ctenophores	<input type="checkbox"/> Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> coralline algae	<input type="checkbox"/> red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cunner	<input type="checkbox"/> red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dk yellow spg	<input type="checkbox"/> sand dollars		trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Didemnum cols		<input type="checkbox"/> shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> finger spg	<input type="checkbox"/> scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> flounder	<input type="checkbox"/> sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> haddock	<input type="checkbox"/> sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
<input type="checkbox"/> herring	<input type="checkbox"/> silver hake		SL nos:

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA <i>VP</i> FILE <i>malfunc</i>	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA <i>LO</i> FILE <i>3989</i>	
LOCAL TIME: EDT				

USGS STA <i>4657</i>	SBNMS SITE <i>R16</i>	CONSECUTIVE STA <i>24</i>	QUAD <i>2</i>	VIDEO CLIP <i>339</i>	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL <i>135304</i>	DPH, m <i>63</i>	42 deg <i>8.028</i> min (nav file corr <i>08.0264</i> min)	-70 deg <i>17.281</i> min (nav file corr <i>17.2844</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <i>135450</i>	DPH, m	42 deg min (nav file corr <i>08.0460</i> min)	-70 deg min (nav file corr <i>17.2667</i> min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL <i>135524</i>	DPH, m	42 deg <i>08.052</i> min (nav file corr <i>08.0509</i> min)	42 deg <i>17.257</i> min (nav file corr <i>17.2600</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL <i>135620</i>	DPH, m	42 deg <i>08.058</i> min (nav file corr <i>08.0575</i> min)	42 deg <i>17.249</i> min (nav file corr <i>17.2515</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
*235 17 55 24*

NO SEDIMENT SAMPLE:    pre-tripped;    no smpl attempted;    jaws partly open;    washout;    refusal;  
 too gravelly/shelly;    smpl too small;    grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT <i>7</i> LEFT <i>9</i>	SED VOL IN GRAB, liters RT <i>2.3</i> + LFT <i>1.5</i> = <i>3.8</i>	<b>SAMPLES / DATA COLLECTED</b> <input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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<i>rip sand</i>		<i>v. little brk shl</i>		<b>SEABED DESCRIPTION</b>	
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N		
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded		
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled		
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N		
cancer crab	mussels	tunicate, B pilu.	small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N		
ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N		
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N		
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N		
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N		
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N		
dk yellow spg	sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N		
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N		
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N		
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N		
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N		
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg		
herring	<input checked="" type="checkbox"/> silver hake		SL nos.		

CRUISE: USGS AUK2017043		DAY OF MONTH LOCAL	JD LOCAL	<input checked="" type="checkbox"/> DAY	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC				
LOCATION: STELLWAGEN BANK NMS		AUG 23	235	<input type="checkbox"/> NIGHT					
MONTH YEAR: AUGUST 2017		DAY OF MONTH UTC	JD UTC	VIDEO FWD	FILE				
LOCAL TIME: EDT		AUG 23	235	UPPER CAMERA <i>UP</i>	FILE	7120			
				VIDEO FWD	FILE				
				LOWER CAMERA <i>LO</i>	FILE	3990			
USGS STA	4658	SBNMS SITE	LSB 13	CONSECUTIVE STA	25	QUAD	2	VIDEO CLIP	340
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 1411 24	DPH, m 60	42 deg 7.917 min	-70 deg 18.637 min	(nav file corr 07.9161 min)	(nav file corr 18.6399 min)		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 141316	DPH, m	42 deg min	-70 deg min	(nav file corr 07.9363 min)	(nav file corr 18.6206 min)		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min	42 deg min	(nav file corr min)	(nav file corr min)		
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 141428	DPH, m	42 deg 7.947 min	42 deg 18.604 min	(nav file corr 07.9459 min)	(nav file corr 18.6062 min)		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min	42 deg min	(nav file corr min)	(nav file corr min)		

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 19 14 28

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm	SED VOL IN GRAB, liters	SAMPLES / DATA COLLECTED		
RIGHT 2    LEFT 4	RT 4.5 + LFT 3.6 = 8.1	<input checked="" type="checkbox"/> SEDIMENT	<input checked="" type="checkbox"/> CTD UPCA	<input checked="" type="checkbox"/> GPS NAV FILE
rip sand		<input type="checkbox"/> SAND LANCE	<input checked="" type="checkbox"/> INVERTS	<input checked="" type="checkbox"/> GRAB STILL
		<input type="checkbox"/> VERT. PLNK. TOW	<input type="checkbox"/> NO INVERTS PRESENT	<input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
<input type="checkbox"/> att epifauna	<input type="checkbox"/> herring eggs	<input type="checkbox"/> skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Boltenia tunic.	<input type="checkbox"/> lobster	<input type="checkbox"/> Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
<input type="checkbox"/> brachiopod	<input type="checkbox"/> monkfish	<input type="checkbox"/> squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
<input type="checkbox"/> bushy bry/hyd	<input type="checkbox"/> moon snail	<input type="checkbox"/> tunicate, B pilu.	gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> cancer crab	<input type="checkbox"/> mussels	<input type="checkbox"/> yellow encr. spg	small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ceri burr anem	<input type="checkbox"/> ocean pout		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ctenophores	<input type="checkbox"/> Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> coralline algae	<input type="checkbox"/> red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cunner	<input checked="" type="checkbox"/> red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dk yellow spg	<input type="checkbox"/> sand dollars	<input checked="" type="checkbox"/> burrows	trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Didemnum cols		<input type="checkbox"/> shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> finger spg	<input checked="" type="checkbox"/> scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> flounder	<input type="checkbox"/> sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> haddock	<input type="checkbox"/> sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
<input type="checkbox"/> herring	<input checked="" type="checkbox"/> silver hake		SL nos:

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA <i>DP</i> FILE 7121	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA <i>LD</i> FILE 3991	
LOCAL TIME: EDT				

USGS STA <i>4659</i>	SBNMS SITE <i>R1</i>	CONSECUTIVE STA <i>26</i>	QUAD <i>2</i>	VIDEO CLIP <i>341</i>
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL <i>142730</i>	DPH, m <i>54</i>	42 deg <i>8.767</i> min (nav file corr <i>08.7665</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <i>142902</i>	DPH, m	-70 deg <i>17.728</i> min (nav file corr <i>17.7280</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL <i>143046</i>	DPH, m	42 deg <i>6.786</i> min (nav file corr <i>08.7852</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)
				42 deg <i>17.694</i> min (nav file corr <i>17.6969</i> min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
*235 18 30 46*

NO SEDIMENT SAMPLE:    pre-tripped;    no smpl attempted;    jaws partly open;    washout;    refusal;  
 too gravelly/shelly;    smpl too small;    grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT <i>10</i> , LEFT <i>5</i>	SED VOL IN GRAB, liters RT <i>1.2</i> + LFT <i>3.1</i> = <i>4.3</i>	SAMPLES / DATA COLLECTED <input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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			SEABED DESCRIPTION
<input type="checkbox"/>	att epifauna	<input type="checkbox"/>	skate
<input type="checkbox"/>	Boltenia tunic.	<input type="checkbox"/>	Subentes spg
<input type="checkbox"/>	brachiopod	<input type="checkbox"/>	squid
<input type="checkbox"/>	bushy bry/hyd	<input type="checkbox"/>	tunicate, B pilu.
<input checked="" type="checkbox"/>	cancer crab	<input type="checkbox"/>	yellow encr. spg
<input type="checkbox"/>	ceri burr anem	<input type="checkbox"/>	
<input type="checkbox"/>	cod; cod juvenile	<input type="checkbox"/>	
<input type="checkbox"/>	ctenophores	<input type="checkbox"/>	
<input type="checkbox"/>	coralline algae	<input type="checkbox"/>	
<input type="checkbox"/>	cunner	<input type="checkbox"/>	
<input type="checkbox"/>	dk yellow spg	<input type="checkbox"/>	
<input type="checkbox"/>	Didemnum cols	<input type="checkbox"/>	
<input type="checkbox"/>	dogfish	<input type="checkbox"/>	
<input type="checkbox"/>	finger spg	<input type="checkbox"/>	
<input type="checkbox"/>	flounder	<input type="checkbox"/>	
<input type="checkbox"/>	haddock	<input type="checkbox"/>	
<input type="checkbox"/>	herring	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	silver hake	<input type="checkbox"/>	

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA VP FILE 7122	VIDEO FWD LOWER CAMERA LD FILE 3992
MONTH YEAR: AUGUST 2017				
LOCAL TIME: EDT				

USGS STA 4660	SBNMS SITE R3	CONSECUTIVE STA 27	QUAD 2	VIDEO CLIP 342
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 144024	DPH, m 56	42 deg 9.117 min -70 deg 17.167 min (nav file corr 09.1168 min) (nav file corr 17.1707 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 144116	DPH, m	42 deg min -70 deg min (nav file corr 09.1201 min) (nav file corr 17.1567 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 144244	DPH, m	42 deg 9.130 min 42 deg 17.131 min (nav file corr 09.1299 min) (nav file corr 17.1342 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 18 42 44

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 7.5 LEFT 7.5	SED VOL IN GRAB, liters RT 2.1 + LFT 2.1 = 4.2	<b>SAMPLES / DATA COLLECTED</b> <input checked="" type="checkbox"/> SEDIMENT <input type="checkbox"/> CTD UPGRADE <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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rip smd			<b>SEABED DESCRIPTION</b>
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail	tunicate, B pilu.	gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	yellow encr. spg	small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA <i>OP</i> FILE 7123	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA <i>LO</i> FILE 3993	
LOCAL TIME: EDT				

USGS STA 4661	SBNMS SITE R4	CONSECUTIVE STA 28	QUAD 2	VIDEO CLIP 343
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 145212	DPH, m 56	42 deg 9.078 min (nav file corr 09.0777 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 145340	DPH, m	-70 deg 16.341 min (nav file corr 16.3456 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 145454	DPH, m	42 deg 9.099 min (nav file corr 09.0975 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)
				42 deg 16.279 min (nav file corr 16.2833 min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 18 54 54

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 7 LEFT 7	SED VOL IN GRAB, liters RT 2.3 + LFT 2.3 = 4.6	SAMPLES / DATA COLLECTED
		<input checked="" type="checkbox"/> SEDIMENT <input type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
<input type="checkbox"/> att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
<input type="checkbox"/> brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
<input type="checkbox"/> bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> cancer crab	mussels	tunicate, B pilu.	small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dk yellow spg	sand dollars		trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
<input type="checkbox"/> herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043		DAY OF MONTH LOCAL	JD LOCAL	<input checked="" type="checkbox"/> DAY	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC	
LOCATION: STELLWAGEN BANK NMS		AUG 23	235	<input type="checkbox"/> NIGHT		
MONTH YEAR: AUGUST 2017		DAY OF MONTH UTC	JD UTC	VIDEO FWD	FILE 7124	
LOCAL TIME: EDT		AUG 23	235	UPPER CAMERA UP	FILE <i>check only</i>	
				VIDEO FWD	FILE 3995	
				LOWER CAMERA LO		
USGS STA 4662		SBNMS SITE R19		CONSECUTIVE STA 29		QUAD 2
						VIDEO CLIP 344
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 150534	DPH, m 57	42 deg 8.756 min (nav file corr 08.7550 min)	-70 deg 16.055 min (nav file corr 16.0579 min)	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 150656	DPH, m	42 deg min (nav file corr 08.7668 min)	-70 deg min (nav file corr 16.0388 min)	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)	
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 150826	DPH, m	42 deg 8.778 min (nav file corr 08.7780 min)	42 deg 16.009 min (nav file corr 16.0136 min)	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)	

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 19 08 26

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 8.5    LEFT 7	SED VOL IN GRAB, liters RT 1.7 + LFT 2.3 = 4.0	SAMPLES / DATA COLLECTED		
rip sand		<input checked="" type="checkbox"/> SEDIMENT	<input checked="" type="checkbox"/> CTD UPGRADE	<input checked="" type="checkbox"/> GPS NAV FILE
		<input type="checkbox"/> SAND LANCE	<input checked="" type="checkbox"/> INVERTS	<input checked="" type="checkbox"/> GRAB STILL
		<input type="checkbox"/> VERT. PLNK. TOW	<input type="checkbox"/> NO INVERTS PRESENT	<input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
<input type="checkbox"/> att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
<input type="checkbox"/> brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
<input type="checkbox"/> bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> cancer crab	mussels	tunicate, B pilu.	small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dk yellow spg	sand dollars		trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
<input type="checkbox"/> herring	<input checked="" type="checkbox"/> silver hake		SL nos:

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA <i>UP</i> FILE 7125	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA <i>LD</i> FILE 3997	
LOCAL TIME: EDT				

USGS STA <i>4663</i>	SBNMS SITE <i>R5</i>	CONSECUTIVE STA <i>30</i>	QUAD <i>2</i>	VIDEO CLIP <i>345</i>	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL <i>151806</i>	DPH, m <i>57</i>	42 deg <i>8.885</i> min (nav file corr <i>08.8846</i> min)	-70 deg <i>15.455</i> min (nav file corr <i>15.4614</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <i>151932</i>	DPH, m	42 deg min	-70 deg min (nav file corr <i>08.8925</i> min) (nav file corr <i>15.4264</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min	42 deg min (nav file corr min) (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL <i>152112</i>	DPH, m	42 deg <i>8.901</i> min (nav file corr <i>08.9008</i> min)	<b>42 deg</b> <i>15.382</i> min (nav file corr <i>15.3867</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min	42 deg min (nav file corr min) (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
*235 19 21 12*

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT <i>11</i> , LEFT <i>10.5</i>	SED VOL IN GRAB, liters RT <i>0.8</i> + LFT <i>1.0</i> = <i>1.8</i>	<b>SAMPLES / DATA COLLECTED</b> <input checked="" type="checkbox"/> SEDIMENT <input type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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<i>rip sand</i>			<b>SEABED DESCRIPTION</b>
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA <input checked="" type="checkbox"/> FILE 7126	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA <input checked="" type="checkbox"/> FILE 3998	
LOCAL TIME: EDT				

USGS STA 4664	SBNMS SITE R6	CONSECUTIVE STA 31	QUAD 2	VIDEO CLIP 346
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 153132	DPH, m 63	42 deg 9.105 min -70 deg 14.505 min (nav file corr 09.1049 min) (nav file corr 14.5116 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 153256	DPH, m	42 deg min -70 deg min (nav file corr 09.1159 min) (nav file corr 14.4698 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 153426	DPH, m	42 deg 9.122 min 42 deg 14.424 min (nav file corr 09.1218 min) (nav file corr 14.4305 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 19 34 26

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 11, LEFT 9	SED VOL IN GRAB, liters RT 0.8 + LFT 1.5 = 2.3	<b>SAMPLES / DATA COLLECTED</b> <input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltonia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail	tunicate, B pilu.	gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	yellow encr. spg	small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring	<input checked="" type="checkbox"/> silver hake		SL nos:

AREA OF VAN VEEN GRAB = 0.1 SQ M; MAX DEPTH = 15 CM; VOLUME = 10.8 LITERS  
DISTANCE BETWEEN PARALLEL LASERS = 20 CM  
PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION 4664  
R6, CONSEC STA 31

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA UP FILE 7127	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA LO FILE 3999	
LOCAL TIME: EDT				

USGS STA 4665	SBNMS SITE R20	CONSECUTIVE STA 32	QUAD 2	VIDEO CLIP 347
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 154350	DPH, m 52	42 deg 9.608 min -70 deg 14.074 min (nav file corr 09.6069 min) (nav file corr 14.0779 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 154526	DPH, m	42 deg min -70 deg min (nav file corr 09.6201 min) (nav file corr 14.0354 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 154658	DPH, m	42 deg 9.633 min 42 deg 13.995 min (nav file corr 09.6321 min) (nav file corr 14.0008 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 19 46 58

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 10.5 LEFT 9.5	SED VOL IN GRAB, liters RT 1.0 + LFT 1.3 = 2.3	<b>SAMPLES / DATA COLLECTED</b> <input checked="" type="checkbox"/> SEDIMENT <input type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILLs <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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		SEABED DESCRIPTION	
<input type="checkbox"/>	att epifauna	<input type="checkbox"/>	skate
<input type="checkbox"/>	Boltenia tunic.	<input type="checkbox"/>	Suberites spg
<input type="checkbox"/>	brachiopod	<input type="checkbox"/>	squid
<input type="checkbox"/>	bushy bry/hyd	<input type="checkbox"/>	tunicate, B pilu.
<input checked="" type="checkbox"/>	cancer crab	<input type="checkbox"/>	yellow encr. spg
<input type="checkbox"/>	ceri burr anem	<input type="checkbox"/>	
<input type="checkbox"/>	cod; cod juvenile	<input type="checkbox"/>	
<input type="checkbox"/>	ctenophores	<input type="checkbox"/>	
<input type="checkbox"/>	coralline algae	<input type="checkbox"/>	
<input type="checkbox"/>	cunner	<input type="checkbox"/>	
<input type="checkbox"/>	dk yellow spg	<input type="checkbox"/>	
<input type="checkbox"/>	Didemnum cols	<input type="checkbox"/>	
<input type="checkbox"/>	dogfish	<input type="checkbox"/>	
<input type="checkbox"/>	finger spg	<input type="checkbox"/>	
<input type="checkbox"/>	flounder	<input type="checkbox"/>	
<input type="checkbox"/>	haddock	<input type="checkbox"/>	
<input type="checkbox"/>	herring	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	silver hake	<input type="checkbox"/>	

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA 00 FILE 7128	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA LD FILE 4000	
LOCAL TIME: EDT				

USGS STA 4666b	SBNMS SITE R21	CONSECUTIVE STA 33	QUAD 2	VIDEO CLIP 348	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 155854	DPH, m 51	42 deg 9.652 min (nav file corr 09.6512 min)	-70 deg 14.708 min (nav file corr 14.7118 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 16006	DPH, m	42 deg min (nav file corr 09.6594 min)	-70 deg min (nav file corr 14.6874 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 160200	DPH, m	42 deg 9.675 min (nav file corr 09.6736 min)	42 deg 14.642 min (nav file corr 14.6474 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS

STATION DATE AND TIME, UTC

DDD : HH : MM : SS  
235 20 02 00

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 9, LEFT 8	SED VOL IN GRAB, liters RT 1.5 + LFT 1.9 = 3.4	<b>SAMPLES / DATA COLLECTED</b>
		<input checked="" type="checkbox"/> SEDIMENT <input type="checkbox"/> OTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL

rip sand			<b>SEABED DESCRIPTION</b>
<input type="checkbox"/> att epifauna	<input type="checkbox"/> herring eggs	<input checked="" type="checkbox"/> skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Boltenia tunic.	<input type="checkbox"/> lobster	<input type="checkbox"/> Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
<input type="checkbox"/> brachiopod	<input type="checkbox"/> monkfish	<input type="checkbox"/> squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
<input type="checkbox"/> bushy bry/hyd	<input type="checkbox"/> moon snail	<input type="checkbox"/> tunicate, B pilu.	gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> cancer crab	<input type="checkbox"/> mussels	<input type="checkbox"/> yellow encr. spg	small nipples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ceri burr anem	<input checked="" type="checkbox"/> ocean pout		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ctenophores	<input type="checkbox"/> Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> coralline algae	<input type="checkbox"/> red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cunner	<input checked="" type="checkbox"/> red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dk yellow spg	<input type="checkbox"/> sand dollars		trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Didemnum cols		<input type="checkbox"/> shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dogfish			sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
<input type="checkbox"/> finger spg	<input type="checkbox"/> scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> flounder	<input type="checkbox"/> sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> haddock	<input type="checkbox"/> sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input checked="" type="checkbox"/> lg
<input type="checkbox"/> herring	<input type="checkbox"/> silver hake		SL nos:

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA <i>NP</i> FILE 7129	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA <i>L0</i> FILE 4001	
LOCAL TIME: EDT				

USGS STA <i>4667</i>	SBNMS SITE <i>R11</i>	CONSECUTIVE STA <i>34</i>	QUAD <i>2</i>	VIDEO CLIP <i>349</i>
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL <i>161832</i>	DPH, m <i>46</i>	42 deg <i>9.332</i> min (nav file corr <i>09.3320</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <i>162002</i>	DPH, m	-70 deg <i>15.915</i> min (nav file corr <i>15.912</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL <i>162132</i>	DPH, m	42 deg <i>9.347</i> min (nav file corr <i>09.3465</i> min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)
				42 deg min (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS

STATION DATE AND TIME, UTC

DDD : HH : MM : SS  
*235 20 21 32*

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT <i>10</i> , LEFT <i>10</i>	SED VOL IN GRAB, liters RT <i>1.2</i> + LFT <i>1.2</i> = <i>2.4</i>	SAMPLES / DATA COLLECTED
		<input checked="" type="checkbox"/> SEDIMENT <input type="checkbox"/> STD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL

<i>np sand</i>			
alt epifauna	herring eggs	<input checked="" type="checkbox"/> skate	SEABED DESCRIPTION
Boltenia tunic.	lobster	Suberites spg	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
brachiopod	monkfish	squid	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
bushy bry/hyd	moon snail		<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
cancer crab	mussels	tunicate, B pilu.	gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout	yellow encr. spg	small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
herring	<input checked="" type="checkbox"/> silver hake		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input checked="" type="checkbox"/> lg
			SL nos:

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA <i>UP</i> FILE 7130	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA <i>LD</i> FILE 4002	
LOCAL TIME: EDT				

USGS STA 4668	SBNMS SITE 528	CONSECUTIVE STA 35	QUAD 2	VIDEO CLIP 350
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 164146	DPH, m 21	42 deg 9.923 min -70 deg 17.481 min (nav file corr 09.9221 min) (nav file corr 17.4876 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 164222	DPH, m	42 deg min -70 deg min (nav file corr 09.9262 min) (nav file corr 17.4723 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 164302	DPH, m	42 deg 9.934 min 42 deg 17.451 min (nav file corr 09.9329 min) (nav file corr 17.4561 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 20 43 02

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 2, LEFT 2.5	SED VOL IN GRAB, liters RT 4.5 + LFT 4.2 = 8.7	<b>SAMPLES / DATA COLLECTED</b>
<i>1 cgs w/ sand lance</i>		<input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input checked="" type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input checked="" type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	<input checked="" type="checkbox"/> sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos: 11 to A. Robney
	silver hake		

CRUISE: USGS AUK2017043		DAY OF MONTH LOCAL	JD LOCAL	<input checked="" type="checkbox"/> DAY	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC				
LOCATION: STELLWAGEN BANK NMS		AUG 23	235	<input type="checkbox"/> NIGHT					
MONTH YEAR: AUGUST 2017		DAY OF MONTH UTC	JD UTC	VIDEO FWD	FILE	7131			
LOCAL TIME: EDT		AUG 23	235	UPPER CAMERA	UP				
				VIDEO FWD	FILE	4003			
				LOWER CAMERA	LO				
USGS STA	4669	SBNMS SITE	527	CONSECUTIVE STA	36	QUAD	2	VIDEO CLIP	357
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL	DPH, m	42 deg	9.611 min	-70 deg	18.303 min	(nav file corr 09.6107 min) (nav file corr 18.3052 min)	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg	min	-70 deg	min	(nav file corr 09.6128 min) (nav file corr 18.2930 min)	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg	min	42 deg	min	(nav file corr min) (nav file corr min)	
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL	DPH, m	42 deg	9.616 min	42 deg	18.270 min	(nav file corr 09.6151 min) (nav file corr 18.2728 min)	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg	min	42 deg	min	(nav file corr min) (nav file corr min)	

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 20 58 04

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm	SED VOL IN GRAB, liters	SAMPLES / DATA COLLECTED		
RIGHT 3    LEFT 2	RT 4.0 + LFT 4.5 = 9.5	<input checked="" type="checkbox"/> SEDIMENT	<input type="checkbox"/> CTD UPCAST	<input type="checkbox"/> GPS NAV FILE
1-cgs w/ sand lance		<input checked="" type="checkbox"/> SAND LANCE	<input checked="" type="checkbox"/> INVERTS	<input checked="" type="checkbox"/> GRAB STILL
		<input type="checkbox"/> VERT. PLNK. TOW	<input type="checkbox"/> NO INVERTS PRESENT	<input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input checked="" type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail	tunicate, B pilu.	gvl in ripple troughs <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
cancer crab	mussels	yellow encr. spg	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	<input checked="" type="checkbox"/> sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
<input checked="" type="checkbox"/> flounder 3 windows in 1c	sculpin		sand lance in sed sample <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
haddock scoured	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring put			SL nos: 10A, R. 5 Buck 6
	silver hake		

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA <u>OP</u> FILE 7132	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA <u>LD</u> FILE 4004	
LOCAL TIME: EDT				

USGS STA 4670	SBNMS SITE 529	CONSECUTIVE STA 37	QUAD 2	VIDEO CLIP 352
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 171430	DPH, m 26	42 deg 11.416 min -70 deg 17.772 min (nav file corr 11.4152 min) (nav file corr 17.7754 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 171518	DPH, m	42 deg min -70 deg min (nav file corr 11.4214 min) (nav file corr 17.7635 min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 171542	DPH, m	42 deg 11.425 min 42 deg 17.755 min (nav file corr 11.4246 min) (nav file corr 17.7571 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 171602	DPH, m	42 deg 11.437 min 42 deg 17.735 min (nav file corr 11.4269 min) (nav file corr 17.7533 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 21 15 42

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 2, LEFT 2.5	SED VOL IN GRAB, liters RT 4.5 + LFT 4.2 = 8.7	<b>SAMPLES / DATA COLLECTED</b> <input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILLs <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input checked="" type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples    ? <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	<input checked="" type="checkbox"/> sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA UP FILE 7133	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA LO FILE 4005	
LOCAL TIME: EDT				

USGS STA 4671	SBNMS SITE 523	CONSECUTIVE STA 38	QUAD 2	VIDEO CLIP 353
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 172752	DPH, m 29	42 deg 11.668 min (nav file corr 11.6686 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 172840	DPH, m	42 deg min (nav file corr 11.6667 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 173232	DPH, m	42 deg 11.694 min (nav file corr 11.6928 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 21 32 32

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT / LEFT	SED VOL IN GRAB, liters RT / +LFT =	<b>SAMPLES / DATA COLLECTED</b>
		<input type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE
		<input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input type="checkbox"/> GRAB STILL
		<input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL

			SEABED DESCRIPTION
<input type="checkbox"/> att epifauna	<input type="checkbox"/> herring eggs	<input type="checkbox"/> skate	storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Boltenia tunic.	<input type="checkbox"/> lobster	<input type="checkbox"/> Suberites spg	crests: <input type="checkbox"/> sharp <input checked="" type="checkbox"/> rounded
<input type="checkbox"/> brachiopod	<input type="checkbox"/> monkfish	<input type="checkbox"/> squid	<input type="checkbox"/> straight <input checked="" type="checkbox"/> multi-rippled
<input type="checkbox"/> bushy bry/hyd	<input type="checkbox"/> moon snail	<input type="checkbox"/> tunicate, B pilu.	gvl in ripple troughs <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> cancer crab	<input type="checkbox"/> mussels	<input type="checkbox"/> yellow encr. spg	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ceri burr anem	<input type="checkbox"/> ocean pout	<input type="checkbox"/> sand, unrippled	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cod; cod juvenile	<input type="checkbox"/> Polymastia spg	<input type="checkbox"/> sand partial veneer on gravel	sand partial veneer on gravel <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ctenophores	<input type="checkbox"/> red encr. spg	<input type="checkbox"/> gravel pavement	gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> coralline algae	<input type="checkbox"/> red hake	<input type="checkbox"/> boulders	boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cunner	<input type="checkbox"/> sand dollars	<input type="checkbox"/> mud	mud <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dk yellow spg	<input type="checkbox"/> shells/fragments	<input type="checkbox"/> trawled/dredged shell frags	trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Didemnum cols	<input type="checkbox"/> dogfish	<input type="checkbox"/> trawl/dredge marks	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> finger spg	<input type="checkbox"/> scallops	<input type="checkbox"/> sand lance in water column	sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> flounder	<input checked="" type="checkbox"/> sculpin	<input type="checkbox"/> sand lance on/in substrate	sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> haddock	<input type="checkbox"/> sea stars	<input type="checkbox"/> sand lance in sed sample	sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> herring	<input type="checkbox"/> silver hake	SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg	SL nos:

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA DP FILE 7134	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA LR FILE 4006	
LOCAL TIME: EDT				

USGS STA 4672	SBNMS SITE 524	CONSECUTIVE STA 39	QUAD 2	VIDEO CLIP 354	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 173952	DPH, m 29	42 deg 11.622 min (nav file corr 11.6211 min)	-70 deg 18.927 min (nav file corr 18.9292 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 174050	DPH, m	42 deg min (nav file corr 11.6289 min)	-70 deg min (nav file corr 18.9183 min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 174132	DPH, m	42 deg 11.632 min (nav file corr 11.6318 min)	42 deg 18.907 min (nav file corr 18.9093 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 174532	DPH, m	42 deg 11.644 min (nav file corr 11.6438 min)	42 deg 18.856 min (nav file corr 18.8580 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)	42 deg min (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 21 41 32

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravely/shelly;  smpl too small;  grvl in jaws; *V. Smpl / smpl rock in jaws*

DPH TO SED SURF IN GRAB, cm RIGHT 12.5 LEFT 13	SED VOL IN GRAB, liters RT 0.4 + LFT 0.3 = 0.7	<b>SAMPLES / DATA COLLECTED</b> <input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILLs <input type="checkbox"/> VERT. PLNK. TOW <input checked="" type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL
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<i>drifted into recs / pcb in part</i>			<b>SEABED DESCRIPTION</b>
att epifauna	herring eggs	skate	storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input checked="" type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input checked="" type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail	tunicate, B pilu.	gvl in ripple troughs <input checked="" type="checkbox"/> Y, <input checked="" type="checkbox"/> N
cancer crab	mussels	yellow encr. spg	small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA UP FILE 7135	
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER-CAMERA LD FILE 4007	
LOCAL TIME: EDT				

USGS STA 4673	SBNMS SITE 525	CONSECUTIVE STA 40	QUAD 2	VIDEO CLIP 355
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 175332	DPH, m 30	42 deg 11.548 min -70 deg 19.137 min (nav file corr 11.5478 min) (nav file corr 19.1389 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 175438	DPH, m	42 deg min -70 deg min (nav file corr 11.5501 min) (nav file corr 19.1276 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 180002	DPH, m	42 deg 11.546 min 42 deg 19.063 min (nav file corr 11.5460 min) (nav file corr 19.0643 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	42 deg min 42 deg min (nav file corr min) (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 22 00 02

NO SEDIMENT SAMPLE:  pre-tripped;  no smpl attempted;  jaws partly open;  washout;  refusal;  
 too gravelly/shelly;  smpl too small;  grvl in jaws;

DPH TO SED SURF IN GRAB, cm RIGHT 9 LEFT 8.5	SED VOL IN GRAB, liters RT 1.5 + LFT 1.7 = 3.2	SAMPLES / DATA COLLECTED
		<input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input type="checkbox"/> VERT. PLNK. TOW <input type="checkbox"/> NO INVERTS PRESENT <input type="checkbox"/> WATER SPL

*reg 5 / pc 6      sample is cgs veneer on gvl*

			SEABED DESCRIPTION
<input type="checkbox"/> aft epifauna	<input type="checkbox"/> herring eggs	<input type="checkbox"/> skate	storm sand ripples <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N
<input type="checkbox"/> Boltenia tunic.	<input type="checkbox"/> lobster	<input type="checkbox"/> Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
<input type="checkbox"/> brachiopod	<input type="checkbox"/> monkfish	<input type="checkbox"/> squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
<input type="checkbox"/> bushy bry/hyd	<input type="checkbox"/> moon snail	<input type="checkbox"/> tunicate, B pilu.	gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
<input checked="" type="checkbox"/> cancer crab	<input type="checkbox"/> mussels	<input type="checkbox"/> yellow encr. spg	small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ceri burr anem	<input type="checkbox"/> ocean pout		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cod; cod juvenile			sand partial veneer on gravel <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> ctenophores	<input type="checkbox"/> Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> coralline algae	<input type="checkbox"/> red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> cunner	<input type="checkbox"/> red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dk yellow spg	<input type="checkbox"/> sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> Didemnum cols		<input type="checkbox"/> shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> finger spg	<input type="checkbox"/> scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> flounder	<input checked="" type="checkbox"/> sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
<input type="checkbox"/> haddock	<input type="checkbox"/> sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
<input type="checkbox"/> herring			SL nos:
	<input type="checkbox"/> silver hake		

CRUISE: USGS AUK2017043	DAY OF MONTH LOCAL AUG 23	JD LOCAL 235	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Aug 22, 2017 1934 EDT = 2334 UTC
LOCATION: STELLWAGEN BANK NMS	DAY OF MONTH UTC AUG 23	JD UTC 235	VIDEO FWD UPPER CAMERA	FILE _____
MONTH YEAR: AUGUST 2017			VIDEO FWD LOWER CAMERA	FILE _____
LOCAL TIME: EDT				

USGS STA 4674 PT	SBNMS SITE	CONSECUTIVE STA 41	QUAD 2	VIDEO CLIP
<input checked="" type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <i>stop plank tow</i> <input type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 181320	DPH, m 37	42 deg 11.283 min (nav file corr 11.2843 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <i>stop plank tow</i> <input type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 182052	DPH, m 41	42 deg 11.262 min (nav file corr 11.2617 min)
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE	HH MM SS LOCAL	DPH, m	42 deg min (nav file corr min)
<div style="border: 1px solid black; padding: 5px;"> <p>The time and location of a plankton tow were recorded in the log book as a courtesy to a non-USGS scientist sharing the cruise. No data (e.g. video, CTD, sediment sample) collected for USGS science purposes at this station.</p> </div>				
				42 deg min (nav file corr min)
				42 deg min (nav file corr min)
				42 deg min (nav file corr min)

UTC = EDT + 4 HRS, EST + 5 HRS      STATION DATE AND TIME, UTC      DDD : HH : MM : SS  
235 22 13 20

NO SEDIMENT SAMPLE:     pre-tripped;     no smpl attempted;     jaws partly open;     washout;     refusal;  
 too gravelly/shelly;     smpl too small;     grvl in jaws;

DPH TO SED SURF IN GRAB, cm    SED VOL IN GRAB, liters    SAMPLES / DATA COLLECTED

RIGHT     LEFT     RT  + LFT  =

*horiz plank tow 30 cm diam surface tow A. Roebuck*

SEDIMENT     CTD UPCAST     GPS NAV FILE  
 SAND LANCE     INVERTS     GRAB STILLs  
 VERT. PLNK. TOW     NO INVERTS PRESENT     WATER SPL

			SEABED DESCRIPTION
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled
bushy bry/hyd	moon snail		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
cancer crab	mussels	tunicate, B pilu.	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N
ceri burr anem	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N
cod; cod juvenile			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N
ctenophores	Polymastia spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N
coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N
cunner	red hake		mud <input type="checkbox"/> Y, <input type="checkbox"/> N
dk yellow spg	sand dollars		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N
Didemnum cols		shells/fragments	trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N
dogfish			sand lance in water column <input type="checkbox"/> Y, <input type="checkbox"/> N
finger spg	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N
flounder	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg
herring			SL nos:
	silver hake		

AREA OF VAN VEEN GRAB = 0.1 SQ M. MAX DEPTH = 15 CM, VOLUME = 10.8 LITERS  
DISTANCE BETWEEN PARALLEL LASERS = 20 CM  
PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION 4674 PT  
SBNMS Site \_\_\_\_\_, CONSEC STA 41