

CRUISE: USGS AUK2017030

LOCATION: STELLWAGEN BANK NMS

MONTH YEAR: MAY 2017

LOCAL TIME: EDT

MONTH - DAY LOCAL

MAY -

JD LOCAL

☐ DAY☐ NIGHTSunset: May 18, 2017
2002 EDT = 0002 UTC

MONTH - DAY UTC

MAY -

JD UTC

VIDEO FWD

UPPER CAMERA

FILE

VIDEO FWD

LOWER CAMERA

FILE

USGS STA

SBNMS SITE

CONSECUTIVE STA

QUAD

☐ STA LOC☐ VIDEO START☐ WATER COLUMN

HH MM SS LOCAL

DPH, m

LAT N

42 deg

min

LON W

70 deg

min

☐ STA LOC☐ VIDEO START☐ ON SEABED☐ SMPL ATTEMPT

HH MM SS LOCAL

DPH, m

LAT N

42 deg

min

LON W

70 deg

min

☐ STA LOC☐ SAMPLE
ATTEMPT

HH MM SS LOCAL

DPH, m

LAT N

42 deg

min

LON W

70 deg

min

☐ STA LOC☐ SMPL ATTEMPT☐ VIDEO END☐ OFF SEABED

HH MM SS LOCAL

DPH, m

LAT N

42 deg

min

LON W

70 deg

min

☐ STA LOC☐ VIDEO END

HH MM SS LOCAL

DPH, m

LAT N

42 deg

min

LON W

70 deg

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

SED VOL IN GRAB, liters

SAMPLES / DATA COLLECTED

RIGHT _____

LEFT _____

RT _____ + LFT _____ = _____

☐ SEDIMENT☐ CTD UPCAST☐ GPS NAV FILE☐ SAND LANCE☐ INVERTS☐ GRAB STILLs☐☐ NO INVERTS PRESENT

	alt epifauna		herring eggs		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.		grl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N
	ceri burr anem		ocean pout		yellow encr. spg		small ripples <input 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						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		shells/fragments		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

USGS STATION _____

PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

SBNMS Site _____, CONSEC STA _____

AUK 2017030

STA 4-578 - Herring - 4633

(month)
top of plankton net attached
to seabos is 3.2m above
beaked when vertical upcast
begins.

1-m plankton net = 505 micron mesh

30-cm plankton net = 150 " "

Inverts by some 1-m plankton tows
retained by Ana Lobache, URI

Some 1-m tows and all 30-cm plankton
tows retained by Joel Lopez, WHOI

Lat/lon coords in blue ink = corrected
position from GPS file.

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138		VIDEO FWD UPPER CAMERA		FILE no video																																																																																																
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USGS STA 4578PT		SBNMS SITE N1		CONSECUTIVE STA 1		QUAD 7																																																																																																		
<input checked="" type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <i>net in water</i> <input type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 090656	DPH, m 33	LAT N 42 deg 25.326 min <i>25.3171</i>		LON W 70 deg 27.073 min <i>27.05058</i>																																																																																																		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <i>out of water</i> <input type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 091524	DPH, m 36	LAT N 42 deg 25.460 min <i>25.4580</i>		LON W 70 deg 27.298 min <i>27.2922</i>																																																																																																		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg min		LON W 70 deg 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	LAT N 42 deg min		LON W 70 deg min																																																																																																		
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3"></th> <th colspan="2">SEABED DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>att epifauna</td> <td>herring eggs</td> <td>skate</td> <td colspan="2"></td> </tr> <tr> <td>Boltenia tunic.</td> <td>lobster</td> <td>Suberites spg</td> <td colspan="2">storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>brachiopod</td> <td>monkfish</td> <td>squid</td> <td colspan="2">crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded</td> </tr> <tr> <td>bushy bry/hyd</td> <td>moon snail</td> <td></td> <td colspan="2"><input type="checkbox"/> straight <input type="checkbox"/> multi-rippled</td> </tr> <tr> <td>cancer crab</td> <td>mussels</td> <td>tunicate, B pilu.</td> <td colspan="2">gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ceri burr anem</td> <td>ocean pout</td> <td>yellow encr. spg</td> <td colspan="2">small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cod; cod juvenile</td> <td></td> <td></td> <td colspan="2">sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>clenophores</td> <td>Polymastia spg</td> <td></td> <td colspan="2">sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>coralline algae</td> <td>red encr. spg</td> <td></td> <td colspan="2">gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cunner</td> <td>red hake</td> <td></td> <td colspan="2">boulders <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dk yellow spg</td> <td>sand dollars</td> <td></td> <td colspan="2">mud <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Didemnum cols</td> <td></td> <td></td> <td colspan="2">trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dogfish</td> <td></td> <td></td> <td colspan="2">trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>finger spg</td> <td>scallops</td> <td></td> <td colspan="2">sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>flounder</td> <td>sculpin</td> <td></td> <td colspan="2">sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>haddock</td> <td>sea stars</td> <td></td> <td colspan="2">sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>herring</td> <td></td> <td></td> <td colspan="2">SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg</td> </tr> <tr> <td></td> <td>silver hake</td> <td>shells/fragments</td> <td colspan="2">SL nos:</td> </tr> </tbody> </table>													SEABED DESCRIPTION		att epifauna	herring eggs	skate			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 type="checkbox"/> Y, <input type="checkbox"/> N		cod; cod juvenile			sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N		clenophores	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			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 checked="" 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	shells/fragments	SL nos:	
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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 4578PT

SBNMS Site N1, CONSEC STA 1

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138	VIDEO FWD UPPER CAMERA FILE 1835		
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA FILE 3915		
LOCAL TIME: EDT							
USGS STA 4579		SBNMS SITE N1		CONSECUTIVE STA 2		QUAD 7	clip 266
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 094038	DPH, m 33	LAT N 42 deg 25.258 min 25.2610	LON W 70 deg 27.013 min 27.0168		
<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 094210	DPH, m	LAT N 42 deg 25.241 min 25.2442437	LON W 70 deg 27.002 min 27.0052		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg	LON W 70 deg		
<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 094744	DPH, m 33	LAT N 42 deg 25.191 min 25.19435	LON W 70 deg 26.974 min 26.9750		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg	LON W 70 deg		
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 138 13 47 44			
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;							
DPH TO SED SURF IN GRAB, cm RIGHT 4.5 LEFT 5		SED VOL IN GRAB, liters RT 3.5 + LFT 3.1 = 6.6		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 ^{Robuck} <input checked="" type="checkbox"/> GRAB STILLs <input checked="" type="checkbox"/> ^{vert} plank tow <input type="checkbox"/> NO INVERTS PRESENT			
att epifauna		herring eggs		skate		SEABED DESCRIPTION	
Boltonia tunic.		lobster		Suberites spg		storm sand ripples small <input checked="" 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						trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N	
dogfish						trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N	
<input checked="" type="checkbox"/> finger spg		<input checked="" type="checkbox"/> scallops				sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	
<input checked="" type="checkbox"/> flounder		<input checked="" type="checkbox"/> sculpin 3				sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	
haddock		sea stars				sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	
herring						SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg	
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AREA OF VAN VEEN GRAB = 0.1 SQ M, MAX DEPTH = 15 CM, VOLUME = 10.8 LITERS

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PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION 4579

SBNMS Site N1, CONSEC STA 2

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL		JD LOCAL	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																											
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LOCAL TIME: EDT		MAY - 18		138	VIDEO FWD LOWER CAMERA		FILE 3916																																																																																										
USGS STA 4580		SBNMS SITE N16		CONSECUTIVE STA 3		QUAD 7	chip 267																																																																																										
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 101500	DPH, m 30	LAT N 42 deg 24.221 min 24.22056	LON W 70 deg 27.512 min 27.51119																																																																																												
<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 101620	DPH, m	LAT N 42 deg 24.208 min 24.209 2085	LON W 70 deg 27.513 min 27.5132																																																																																												
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg 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 102136	DPH, m	LAT N 42 deg 24.150 min 24.153	LON W 70 deg 27.507 min 27.507																																																																																												
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg -1528 min	LON W 70 deg .5069 min																																																																																												
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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 UPGRADE <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input type="checkbox"/> GRAB STILL <input checked="" type="checkbox"/> blank tow <input type="checkbox"/> NO INVERTS PRESENT																																																																																													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3"></th> <th colspan="2">SEABED DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>att epifauna</td> <td></td> <td>herring eggs</td> <td>skate</td> <td>storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Boltenia tunic.</td> <td></td> <td>lobster</td> <td>Suberites spg</td> <td>crests: <input checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded</td> </tr> <tr> <td>brachiopod</td> <td></td> <td>monkfish</td> <td>squid</td> <td><input checked="" type="checkbox"/> straight <input type="checkbox"/> multi-rippled</td> </tr> <tr> <td>bushy bry/hyd</td> <td></td> <td>moon snail</td> <td>tunicate, B pilu.</td> <td>gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cancer crab</td> <td></td> <td>mussels</td> <td>yellow encr. spg</td> <td>small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ceri burr anem</td> <td></td> <td>ocean pout</td> <td></td> <td>sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ctenophores</td> <td></td> <td>Polymastia spg</td> <td></td> <td>sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>coralline algae</td> <td></td> <td>red encr. spg</td> <td></td> <td>gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cunner</td> <td></td> <td>red hake</td> <td></td> <td>boulders <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dk yellow spg</td> <td></td> <td>sand dollars</td> <td></td> <td>mud <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Didemnum cols</td> <td></td> <td></td> <td></td> <td>trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dogfish</td> <td></td> <td></td> <td></td> <td>trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>finger spg</td> <td><input checked="" type="checkbox"/></td> <td>scallops</td> <td></td> <td>sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td><input checked="" type="checkbox"/> flounder</td> <td></td> <td>sculpin</td> <td></td> <td>sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>haddock</td> <td></td> <td>sea stars</td> <td></td> <td>sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>herring</td> <td></td> <td></td> <td></td> <td>SL size: <input type="checkbox"/> sm <input type="checkbox"/> med <input checked="" type="checkbox"/> lg</td> </tr> <tr> <td></td> <td></td> <td>silver hake</td> <td>shells/fragments</td> <td>SL nos:</td> </tr> </tbody> </table>											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 checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded	brachiopod		monkfish	squid	<input checked="" 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	ceri burr anem		ocean pout		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				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	<input checked="" type="checkbox"/>	scallops		sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> flounder		sculpin		sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	haddock		sea stars		sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	herring				SL size: <input type="checkbox"/> sm <input type="checkbox"/> med <input checked="" type="checkbox"/> lg			silver hake	shells/fragments	SL nos:
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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 4580

SBNMS Site N16, CONSEC STA 3

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																								
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138	VIDEO FWD UPPER CAMERA		FILE 1837																																																																							
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA		FILE 3917																																																																							
LOCAL TIME: EDT																																																																														
USGS STA 4581		SBNMS SITE N16		CONSECUTIVE STA 4		QUAD 7	clip 268																																																																							
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 103454	DPH, m 30	LAT N 24 26.2 42 deg 24.2662 min	LON W 27.4234 70 deg 27.421 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 103624	DPH, m	LAT N 24.246 42 deg 24.2491 min	LON W 27.412 70 deg 27.411 min																																																																									
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 4137 70 deg 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 103738	DPH, m	LAT N 24.231 42 deg 24.233 min	LON W 27.415 70 deg 27.414 min																																																																									
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 2328 42 deg min	LON W 4139 70 deg min																																																																									
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC	DDD : HH : MM : SS 138 14 37 38																																																																											
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ctenophores	Polymastia spg		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N																																																																											
coralline algae	red encr. spg		sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N																																																																											
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dogfish			trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N																																																																											
finger spg	scallops		trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N																																																																											
flounder	<input checked="" type="checkbox"/> sculpin		sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N																																																																											
haddock	sea stars		sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N																																																																											
herring			sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N																																																																											
	silver hake	shells/fragments	SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg																																																																											
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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 4581

SBNMS Site N16, CONSEC STA 4

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138	VIDEO FWD UPPER CAMERA		FILE 1838
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA		FILE 3918
LOCAL TIME: EDT							
USGS STA 4582		SBNMS SITE N16		CONSECUTIVE STA 5		QUAD 7	cup 269
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 104926	DPH, m 30	LAT N 42 deg 24.254 min	LON W 70 deg 27.433 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 165042	DPH, m	LAT N 42 deg 24.240 min 24.2423	LON W 70 deg 27.435 min 27.4340		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg 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 105214	DPH, m	LAT N 42 deg 24.225 min 24.2270	LON W 70 deg 27.437 min 27.437		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg 4367 min		
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 138 14 52 14			
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;							
DPH TO SED SURF IN GRAB, cm RIGHT 3.5 LEFT 4.5		SED VOL IN GRAB, liters RT 3.8 + LFT 3.4 = 7.2		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 type="checkbox"/> GRAB STILLs <input type="checkbox"/> NO INVERTS PRESENT			
				SEABED DESCRIPTION			
att epifauna		herring eggs	<input checked="" type="checkbox"/> skate	storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N			
Boltenia tunic.		lobster		crests: <input checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded			
brachiopod		monkfish		<input checked="" type="checkbox"/> straight <input type="checkbox"/> multi-rippled			
bushy bry/hyd		moon snail		grvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N			
cancer crab		mussels		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		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N			
Didemnum cols				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	<input checked="" type="checkbox"/>	sculpin		sand lance in sed sample <input type="checkbox"/> Y, <input checked="" 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		shells/fragments			

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 4582

SBNMS Site N16 CONSEC STA 5

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138	VIDEO FWD UPPER CAMERA		FILE 1839
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA		FILE 3919
LOCAL TIME: EDT							
USGS STA 4583		SBNMS SITE N15		CONSECUTIVE STA 6		QUAD 7	clip 270
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 110902	DPH, m 28	LAT N 42 deg 24.3543 24.352 min	LON W 70 deg 26.0753 26.078 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 111014	DPH, m	LAT N 42 deg 24.3442 24.342 min	LON W 70 deg 26.084 26.0824 min		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg 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 111536	DPH, m	LAT N 42 deg 24.297 24.294 min	LON W 70 deg 26.095 26.095 min		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg 24.287 min	LON W 70 deg 26.095 26.0945 min		
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 138 15 15 36			
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;							
DPH TO SED SURF IN GRAB, cm RIGHT 5, LEFT 6		SED VOL IN GRAB, liters RT 3.1 + LFT 2.7 = 5.8		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 STILLs <input checked="" type="checkbox"/> plankton <input checked="" type="checkbox"/> NO INVERTS PRESENT			
att epifauna		herring eggs		skate		SEABED DESCRIPTION	
Boltenia tunic.		lobster		Suberites spg		storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N	
brachiopod		monkfish		squid		crests: <input checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded	
bushy bry/hyd		moon snail				<input checked="" 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 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						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 checked="" type="checkbox"/> N	
flounder		✓ sculpin				sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	
haddock		sea stars				sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	
herring						SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg	
		silver hake		shells/fragments		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 4583

SBNMS Site N15, CONSEC STA 6

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138		VIDEO FWD UPPER CAMERA		FILE 1840																																																																																																
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3920																																																																																																
LOCAL TIME: EDT																																																																																																								
USGS STA 4584		SBNMS SITE N14		CONSECUTIVE STA 7		QUAD 7		dep 271																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 113352	DPH, m 27	LAT N 42 deg 23.852	min 23.848	LON W 70 deg 24.988	min 24.9852																																																																																																	
<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 113518	DPH, m	LAT N 42 deg 23.835	min 23.838	LON W 70 deg 24.994	min 24.993																																																																																																	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg .8375	min	LON W 70 deg .9929	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 114042	DPH, m	LAT N 42 deg 23.789	min 23.791	LON W 70 deg 25.036	min 25.034																																																																																																	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg .7909	min	LON W 70 deg .0338	min																																																																																																	
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 138 15 40 42																																																																																																				
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;																																																																																																								
DPH TO SED SURF IN GRAB, cm		SED VOL IN GRAB, liters		SAMPLES / DATA COLLECTED																																																																																																				
RIGHT 1 LEFT 1		RT 4.9 + LFT 4.9 = 9.8		<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 STILLs <input checked="" type="checkbox"/> pl tow <input type="checkbox"/> NO INVERTS PRESENT																																																																																																				
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3"></th> <th colspan="2">SEABED DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>att epifauna</td> <td></td> <td>herring eggs</td> <td>skate</td> <td>storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Boltenia tunic.</td> <td></td> <td>lobster</td> <td>Suberites spg</td> <td>crests: <input checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded</td> </tr> <tr> <td>brachiopod</td> <td></td> <td>monkfish</td> <td>squid</td> <td><input checked="" type="checkbox"/> straight <input type="checkbox"/> multi-rippled</td> </tr> <tr> <td>bushy bry/hyd</td> <td></td> <td>moon snail</td> <td>tunicate, B pilu.</td> <td>gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cancer crab</td> <td></td> <td>mussels</td> <td>yellow encr. spg</td> <td>small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ceri burr anem</td> <td></td> <td>ocean poul</td> <td></td> <td>sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cod; cod juvenile</td> <td></td> <td></td> <td></td> <td>sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ctenophores</td> <td></td> <td>Polymastia spg</td> <td></td> <td>gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>coralline algae</td> <td></td> <td>red encr. spg</td> <td></td> <td>boulders <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cunner</td> <td></td> <td>red hake</td> <td></td> <td>mud <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dk yellow spg</td> <td></td> <td>sand dollars</td> <td></td> <td>trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Didemnum cols</td> <td></td> <td></td> <td></td> <td>trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dogfish</td> <td></td> <td></td> <td></td> <td>sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>finger spg</td> <td><input checked="" type="checkbox"/></td> <td>scallops</td> <td></td> <td>sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>flounder</td> <td><input checked="" type="checkbox"/></td> <td>sculpin</td> <td></td> <td>sand lance in sed sample <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>haddock</td> <td></td> <td>sea stars</td> <td></td> <td>SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input checked="" type="checkbox"/> lg</td> </tr> <tr> <td>herring</td> <td></td> <td></td> <td></td> <td>SL nos: 1</td> </tr> <tr> <td></td> <td></td> <td>silver hake</td> <td>shells/fragments</td> <td></td> </tr> </tbody> </table>													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 checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded	brachiopod		monkfish	squid	<input checked="" 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	ceri burr anem		ocean poul		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				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	<input checked="" type="checkbox"/>	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	flounder	<input checked="" type="checkbox"/>	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 checked="" type="checkbox"/> lg	herring				SL nos: 1			silver hake	shells/fragments	
			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 checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded																																																																																																				
brachiopod		monkfish	squid	<input checked="" 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																																																																																																				
ceri burr anem		ocean poul		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				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	<input checked="" type="checkbox"/>	scallops		sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N																																																																																																				
flounder	<input checked="" type="checkbox"/>	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 checked="" type="checkbox"/> lg																																																																																																				
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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

SBNMS Site N14, CONSEC STA 7

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138	VIDEO FWD UPPER CAMERA		FILE 1841
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA		FILE 3921
LOCAL TIME: EDT							
USGS STA 4585		SBNMS SITE N3		CONSECUTIVE STA 8		QUAD 8	Cap 272
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 115852	DPH, m 33	LAT N 42 deg 24.758 min 24.7614	LON W 70 deg 24.465 min 24.4621		
<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 120024	DPH, m	LAT N 42 deg 24.749 min 24.7508	LON W 70 deg 24.474 min 24.4723		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg 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 120546	DPH, m	LAT N 42 deg 24.716 min 24.717	LON W 70 deg 24.492 min 24.4910		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg 7169 min	LON W 70 deg min		
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 138 16 05 46			
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input checked="" type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input checked="" type="checkbox"/> grvl in jaws;							
DPH TO SED SURF IN GRAB, cm RIGHT 10.5 LEFT 12		SED VOL IN GRAB, liters RT 1 + LFT 0.6 = 1.6		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 checked="" type="checkbox"/> NO INVERTS PRESENT			
				SEABED DESCRIPTION			
att epifauna	herring eggs	skate	storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N				
Boltonia tunic.	lobster	Suberites spg	crests: <input checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded				
brachiopod	monkfish	squid	<input checked="" type="checkbox"/> straight <input checked="" type="checkbox"/> multi-rippled				
bushy bry/hyd	moon snail		grvl 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			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 type="checkbox"/> Y, <input checked="" type="checkbox"/> N				
haddock	sea stars		SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input checked="" type="checkbox"/> lg				
herring			SL nos:				
	silver hake	shells/fragments					

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 4585

SBNMS Site N3, CONSEC STA 8

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																															
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138	VIDEO FWD UPPER CAMERA		FILE 1842																																																																																														
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA		FILE 3922																																																																																														
LOCAL TIME: EDT																																																																																																					
USGS STA 4586		SBNMS SITE N4		CONSECUTIVE STA 9		QUAD 8	clip 273																																																																																														
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 122348	DPH, m 31	LAT N 24.23 min 42 deg 24.2325		LON W 23.107 min 70 deg 23.103																																																																																															
<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 122506	DPH, m	LAT N 24.224 min 42 deg 24.2254		LON W 23.109 min 70 deg 23.108																																																																																															
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N min 42 deg min		LON W min 70 deg 1.1079																																																																																															
<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 123028	DPH, m	LAT N 24.184 min 42 deg 24.1851		LON W 23.137 min 70 deg 23.135																																																																																															
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N min 42 deg min		LON W min 70 deg 1.1345																																																																																															
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 138 16 30 28																																																																																																	
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grm in jaws;																																																																																																					
DPH TO SED SURF IN GRAB, cm RIGHT 6.5 LEFT 8.5		SED VOL IN GRAB, liters RT 2.5 + LFT 1.7 = 4.2		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 checked="" type="checkbox"/> NO INVERTS PRESENT																																																																																																	
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PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION 4586

SBNMS Site N4, CONSEC STA 9

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																													
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138	VIDEO FWD UPPER CAMERA		FILE 1843																																																																												
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA		FILE 3923																																																																												
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<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 124556	DPH, m 27	LAT N 42 deg 23.451	LON W 70 deg 23.9151																																																																														
<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 124710	DPH, m	LAT N 42 deg 23.4547	LON W 70 deg 23.940																																																																														
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg 23.443	LON W 70 deg 23.956																																																																														
<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 125234	DPH, m	LAT N 42 deg 23.4429	LON W 70 deg 23.9358																																																																														
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PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION 4587

SBNMS Site N13, CONSEC STA 10

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138		VIDEO FWD UPPER CAMERA		FILE 1844																																																																																																
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3924																																																																																																
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USGS STA 4588		SBNMS SITE N12		CONSECUTIVE STA 11		QUAD 8		275																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 131102	DPH, m 27	LAT N 42 deg	22.968 22.9687 min	LON W 70 deg	22.578 22.5722 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 131230	DPH, m	LAT N 42 deg	22.964 22.9644 min	LON W 70 deg	22.594 22.5902 min																																																																																																	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg	min	LON W 70 deg	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 131742	DPH, m	LAT N 42 deg	22.955 22.9559 min	LON W 70 deg	22.651 22.6461 min																																																																																																	
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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 4588

SBNMS Site N12, CONSEC STA 11

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138		VIDEO FWD UPPER CAMERA		FILE 1845																																																																																																
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3925																																																																																																
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USGS STA 4589		SBNMS SITE N5		CONSECUTIVE STA 12		QUAD 8		clip 276																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 133 430		DPH, m 33		LAT N 42 deg 23.742 min 23.748 23.7418		LON W 70 deg 21.926 min 21.9241																																																																																																
<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 133 646		DPH, m		LAT N 42 deg 23.739 min 23.7392		LON W 70 deg 21.941 min 21.939																																																																																																
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<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 13 4200		DPH, m		LAT N 42 deg 23.739 min 23.7393		LON W 70 deg 21.992 min 21.9892																																																																																																
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PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION

SBNMS Site N5, CONSEC STA 12

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138	VIDEO FWD UPPER CAMERA		FILE 1846																																																																																															
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA		FILE 3927																																																																																															
LOCAL TIME: EDT																																																																																																						
USGS STA 4590		SBNMS SITE N5		CONSECUTIVE STA 13		QUAD 8	dep 277																																																																																															
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 140122	DPH, m 34	LAT N 42 deg 23.813 min	LON W 70 deg 21.962 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 140258	DPH, m	LAT N 42 deg 23.815 min	LON W 70 deg 21.978 min																																																																																																	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg .8148 min	LON W 70 deg .9748 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 140446	DPH, m	LAT N 42 deg 23.816 min	LON W 70 deg 21.996 min																																																																																																	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg .8156 min	LON W 70 deg min																																																																																																	
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RIGHT 6, LEFT 7		RT 2.7 + LFT 2.3 = 5		<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"/> NO INVERTS PRESENT																																																																																																		
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PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION

SBNMS Site N5, CONSEC STA 13

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138		VIDEO FWD UPPER CAMERA		FILE 1847																																																																																																
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3928																																																																																																
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USGS STA 4591		SBNMS SITE N6		CONSECUTIVE STA 14		QUAD 8		clip 278																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 142224		DPH, m 35		LAT N 23.350 min 42 deg 23.350 min		LON W 20.635 min 70 deg 20.635 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 142352		DPH, m		LAT N 23.3583 42 deg 23.360 min		LON W 20.6286 70 deg 20.629 min																																																																																																
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL		DPH, m		LAT N 42 deg min		LON W 70 deg 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 143132		DPH, m		LAT N 23.415 min 42 deg 23.415 min		LON W 20.605 min 70 deg 20.605 min																																																																																																
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL		DPH, m		LAT N 4136 42 deg min		LON W 70 deg min																																																																																																
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USGS STATION

SBNMS Site

CONSEC STA

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																																			
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138		VIDEO FWD UPPER CAMERA		FILE 1848																																																																																																																			
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3929																																																																																																																			
LOCAL TIME: EDT																																																																																																																											
USGS STA 4592		SBNMS SITE N11		CONSECUTIVE STA 15		QUAD 8		clip 279																																																																																																																			
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 144906		DPH, m 29		LAT N 22.457 42 deg 22.462 min		LON W 21.519 70 deg 21.520 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 145014		DPH, m		LAT N 22.4567 42 deg 22.471 min		LON W 21.5185 70 deg 21.519 min																																																																																																																			
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<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 145532		DPH, m		LAT N 22.507 42 deg 22.506 min		LON W 21.539 70 deg 21.5380 min																																																																																																																			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL		DPH, m		LAT N .5059 42 deg min		LON W 70 deg min																																																																																																																			
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cod juvenile</td> <td></td> <td>Polymastia spg</td> <td></td> <td></td> <td>sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ctenophores</td> <td></td> <td>red encr. spg</td> <td></td> <td></td> <td>gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>coralline algae</td> <td></td> <td>red hake</td> <td></td> <td></td> <td>boulders <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cunner</td> <td></td> <td>sand dollars</td> <td></td> <td></td> <td>mud <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dk yellow spg</td> <td></td> <td></td> <td></td> <td></td> <td>trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Didemnum cols</td> <td></td> <td></td> <td></td> <td></td> <td>trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dogfish</td> <td></td> <td></td> <td></td> <td></td> <td>sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>finger spg</td> <td><input checked="" type="checkbox"/></td> <td>scallops "many"</td> <td></td> <td></td> <td>sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>flounder</td> <td></td> <td>sculpin</td> <td></td> <td></td> <td>sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>haddock</td> <td></td> <td>sea stars</td> <td></td> <td></td> <td>SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg</td> </tr> <tr> <td>herring</td> <td></td> <td></td> <td></td> <td></td> <td>SL nos:</td> </tr> <tr> <td></td> <td></td> <td>silver hake</td> <td></td> <td>shells/fragments</td> <td></td> </tr> </tbody> </table>														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 checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded	brachiopod		monkfish		squid	<input checked="" type="checkbox"/> straight <input checked="" 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	ceri burr anem		ocean pout			sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N	cod; cod juvenile		Polymastia spg			sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N	ctenophores		red encr. spg			gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N	coralline algae		red hake			boulders <input type="checkbox"/> Y, <input type="checkbox"/> N	cunner		sand dollars			mud <input type="checkbox"/> Y, <input type="checkbox"/> N	dk yellow spg					trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N	Didemnum cols					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	<input checked="" type="checkbox"/>	scallops "many"			sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	flounder		sculpin			sand lance in sed sample <input type="checkbox"/> Y, <input checked="" 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		shells/fragments	
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bushy bry/hyd		moon snail		tunicate, B pilu.	gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N																																																																																																																						
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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 4592

SBNMS Site N11, CONSEC STA 15

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																																			
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138		VIDEO FWD UPPER CAMERA		FILE 1849																																																																																																																			
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3930																																																																																																																			
LOCAL TIME: EDT																																																																																																																											
USGS STA 4593		SBNMS SITE N10		CONSECUTIVE STA 16		QUAD 8		clip 280																																																																																																																			
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 151252		DPH, m 31		LAT N 42 deg 22.005 min		LON W 70 deg 20.240 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 151424		DPH, m		LAT N 42 deg 22.030 min		LON W 70 deg 20.235 min																																																																																																																			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL		DPH, m		LAT N 42 deg min		LON W 70 deg 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 151944		DPH, m		LAT N 42 deg 22.103 min		LON W 70 deg 20.244 min																																																																																																																			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL		DPH, m		LAT N 42 deg min		LON W 70 deg min																																																																																																																			
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 138 19 19 44																																																																																																																							
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RIGHT 0.5, LEFT 0.5		RT 5.2 + LFT 5.2 = 10.4		<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 checked="" type="checkbox"/> NO INVERTS PRESENT																																																																																																																							
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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					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	<input checked="" type="checkbox"/>	scallops			sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	flounder	<input checked="" type="checkbox"/>	sculpin			sand lance in sed sample <input type="checkbox"/> Y, <input checked="" 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		shells/fragments	
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ceri burr anem		ocean pout		yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N																																																																																																																						
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coralline algae		red encr. spg			boulders <input type="checkbox"/> Y, <input type="checkbox"/> N																																																																																																																						
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DISTANCE BETWEEN PARALLEL LASERS = 20 CM

PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION 4593

SBNMS Site N10, CONSEC STA 16

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138	VIDEO FWD UPPER CAMERA		FILE 1850																																																																																															
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA		FILE 3931																																																																																															
LOCAL TIME: EDT																																																																																																						
USGS STA 4594		SBNMS SITE N7		CONSECUTIVE STA 17		QUAD 8	clip 281																																																																																															
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 153436	DPH, m 33	LAT N 22.8130 42 deg 22.819 min	LON W 19.521 min 70 deg 19.523 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 153612	DPH, m	LAT N 22.837 min 42 deg 22.8341 min	LON W 19.528 min 70 deg 19.525 min																																																																																																	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg 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 154230	DPH, m	LAT N 22.893 min 42 deg 22.8908 min	LON W 19.540 min 70 deg 19.5407 min																																																																																																	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg min																																																																																																	
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DPH TO SED SURF IN GRAB, cm		SED VOL IN GRAB, liters		SAMPLES / DATA COLLECTED																																																																																																		
RIGHT 10, LEFT 10.5		RT 1.2 + LFT 1 = 2.2		<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 type="checkbox"/> GRAB STILLs <input checked="" type="checkbox"/> ventral jaw <input type="checkbox"/> NO INVERTS PRESENT																																																																																																		
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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

SBNMS Site

CONSEC STA

4594

N7

17

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138	VIDEO FWD UPPER CAMERA FILE 1851																																																																																																	
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA FILE 3932																																																																																																	
LOCAL TIME: EDT																																																																																																						
USGS STA 4595		SBNMS SITE N8		CONSECUTIVE STA 18		QUAD 8	dep 282																																																																																															
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 155956	DPH, m 37	LAT N 42 deg 22.4105 22.414 min	LON W 70 deg 18.3963 18.395 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 160146	DPH, m	LAT N 42 deg 22.450 min 22.447 min	LON W 70 deg 18.387 min 18.387 min																																																																																																	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg .4467 min	LON W 70 deg .3867 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 160658	DPH, m	LAT N 42 deg 22.520 min 22.5172 min	LON W 70 deg 18.399 min 18.3983 min																																																																																																	
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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 4595

SBNMS Site N8, CONSEC STA 18

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138	VIDEO FWD UPPER CAMERA FILE 1852		
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA FILE 3933		
LOCAL TIME: EDT							
USGS STA 4596		SBNMS SITE N9		CONSECUTIVE STA 19		QUAD 8	clip 283
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 16 27 20	DPH, m 34	LAT N 42 deg 21.482 min	LON W 70 deg 19.079 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 16 28 48	DPH, m	LAT N 42 deg 21.508 min 21.5041	LON W 70 deg 19.078 min 19.0780		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg min		
<input 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 16 34 06	DPH, m	LAT N 42 deg 21.589 min 21.5861	LON W 70 deg 19.081 min 19.0811		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg min		
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 138 20 34 06			
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;							
DPH TO SED SURF IN GRAB, cm RIGHT 6, LEFT 5.5		SED VOL IN GRAB, liters RT 2.7 + LFT 2.9 = 5.6		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 type="checkbox"/> GRAB STILLs <input checked="" type="checkbox"/> NO INVERTS PRESENT			
att epifauna		herring eggs		skate		SEABED DESCRIPTION	
Botlenia tunic.		lobster		Suberites spg		storm sand ripples <input checked="" 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 checked="" type="checkbox"/> straight <input checked="" type="checkbox"/> multi-rippled	
cancer crab		mussels		tunicate, B pilu.		gvl in ripple troughs <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N	
ceri burr anem		ocean pout		yellow encr. spg		small ripples <input 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		cys / per in part		mud <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		<input checked="" type="checkbox"/> scallops				sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	
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haddock		sea stars				sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	
herring						SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg	
		silver hake		shells/fragments		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 4596

SBNMS Site N9, CONSEC STA 19

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 18		JD LOCAL 138		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 18		JD UTC 138		VIDEO FWD UPPER CAMERA		FILE no video	
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE no video	
LOCAL TIME: EDT									
USGS STA 4597 PT		SBNMS SITE N9		CONSECUTIVE STA 20		QUAD 8			
<input checked="" type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 16 56 28	DPH, m 34	LAT N 21.44 05 42 deg 21.441 min		LON W 18.95 20 70 deg 18.936 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 17 06 20	DPH, m	LAT N 21.50 51 42 deg 21.507 min		LON W 18.51 8 70 deg 18.533 min			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg min		LON W .5326 70 deg 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	LAT N 42 deg min		LON W 70 deg min			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg min		LON W 70 deg min			
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DD : HH : MM : SS 138 20 56 28					
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;									
DPH TO SED SURF IN GRAB, cm RIGHT _____ LEFT _____		SED VOL IN GRAB, liters RT _____ + LFT _____ = _____		SAMPLES / DATA COLLECTED					
				<input type="checkbox"/> SEDIMENT <input type="checkbox"/> CTD UPCAST <input type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input type="checkbox"/> GRAB STILLs <input checked="" type="checkbox"/> plank tow <input type="checkbox"/> NO INVERTS PRESENT					

				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				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	shells/fragments			

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 4597 PT

SBNMS Site N9 CONSEC STA 20

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 19		JD LOCAL 139	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																													
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 19		JD UTC 139	VIDEO FWD UPPER CAMERA FILE no video																																																																														
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA FILE no video																																																																														
LOCAL TIME: EDT																																																																																			
USGS STA 4598 PT		SBNMS SITE C14		CONSECUTIVE STA 21		QUAD 5 - 3199																																																																													
<input checked="" type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START in water <input type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 092744	DPH, m 29	LAT N 42 deg 18.479 min	LON W 70 deg 18.337 min																																																																														
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START out of water <input type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 093712	DPH, m 34	LAT N 42 deg 18.181 min 18.1891	LON W 70 deg 18.535 min 18.5391																																																																														
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg 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	LAT N 42 deg min	LON W 70 deg min																																																																														
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg min																																																																														
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 139 13 27 44																																																																															
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws; 1-m plankton tow to 40piz																																																																																			
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 <input type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input type="checkbox"/> GRAB STILLs <input checked="" type="checkbox"/> 1-m plk <input type="checkbox"/> NO INVERTS PRESENT																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3"></th> <th>SEABED DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>att epifauna</td> <td>herring eggs</td> <td>skate</td> <td>storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Boltenia tunic.</td> <td>lobster</td> <td>Suberites spg</td> <td>crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded</td> </tr> <tr> <td>brachiopod</td> <td>monkfish</td> <td>squid</td> <td><input type="checkbox"/> straight <input type="checkbox"/> multi-rippled</td> </tr> <tr> <td>bushy bry/hyd</td> <td>moon snail</td> <td>tunicate, B pilu.</td> <td>gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cancer crab</td> <td>mussels</td> <td>yellow encr. spg</td> <td>small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ceri burr anem</td> <td>ocean pout</td> <td></td> <td>sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cod; cod juvenile</td> <td></td> <td></td> <td>sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ctenophores</td> <td>Polymastia spg</td> <td></td> <td>gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>coralline algae</td> <td>red encr. spg</td> <td></td> <td>boulders <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cunner</td> <td>red hake</td> <td></td> <td>mud <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dk yellow spg</td> <td>sand dollars</td> <td></td> <td>trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Didemnum cols</td> <td></td> <td></td> <td>trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dogfish</td> <td></td> <td></td> <td>sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>finger spg</td> <td>scallops</td> <td></td> <td>sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>flounder</td> <td>sculpin</td> <td></td> <td>sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>haddock</td> <td>sea stars</td> <td></td> <td>SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg</td> </tr> <tr> <td>herring</td> <td></td> <td></td> <td>SL nos:</td> </tr> <tr> <td></td> <td>silver hake</td> <td>shells/fragments</td> <td></td> </tr> </tbody> </table>											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	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			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	shells/fragments	
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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 4598 PT

SBNMS Site C14, **CONSEC STA** 21

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 19		JD LOCAL 139	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																																			
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 19		JD UTC 139	VIDEO FWD UPPER CAMERA		FILE 1853																																																																																																																		
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA		FILE 3934																																																																																																																		
LOCAL TIME: EDT																																																																																																																									
USGS STA 4599		SBNMS SITE C14		CONSECUTIVE STA 22		QUAD 5	chip 284																																																																																																																		
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 095204	DPH, m 33	LAT N 42 deg 18.249 min	LON W 70 deg 18.484 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 095330	DPH, m	LAT N 42 deg 18.267 min	LON W 70 deg 18.464 min																																																																																																																				
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg 2.687 min	LON W 70 deg 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 095924	DPH, m	LAT N 42 deg 18.306 min	LON W 70 deg 18.377 min																																																																																																																				
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg 3929 min																																																																																																																				
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 139 13 59 24																																																																																																																					
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cod juvenile</td> <td></td> <td></td> <td></td> <td></td> <td>sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ctenophores</td> <td></td> <td>Polymastia spg</td> <td></td> <td></td> <td>gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>coralline algae</td> <td></td> <td>red encr. spg</td> <td></td> <td></td> <td>boulders <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cunner</td> <td></td> <td>red hake</td> <td></td> <td></td> <td>mud <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dk yellow spg</td> <td></td> <td>sand dollars</td> <td></td> <td></td> <td>trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Didemnum cols</td> <td></td> <td></td> <td></td> <td></td> <td>trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dogfish</td> <td></td> <td></td> <td></td> <td></td> <td>sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>finger spg</td> <td></td> <td>scallops</td> <td></td> <td></td> <td>sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td><input checked="" type="checkbox"/> flounder</td> <td></td> <td>sculpin</td> <td></td> <td></td> <td>sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>haddock</td> <td></td> <td>sea stars</td> <td></td> <td></td> <td>SL size: <input type="checkbox"/> sm <input type="checkbox"/> med <input type="checkbox"/> lg</td> </tr> <tr> <td>herring</td> <td></td> <td></td> <td></td> <td></td> <td>SL nos:</td> </tr> <tr> <td></td> <td></td> <td>silver hake</td> <td></td> <td>shells/fragments</td> <td></td> </tr> </tbody> </table>												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 checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded	brachiopod		monkfish		squid	<input checked="" type="checkbox"/> straight <input type="checkbox"/> multi-rippled	bushy bry/hyd		moon snail			gvl in ripple troughs <input checked="" 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; 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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

SBNMS Site

CONSEC STA

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 19		JD LOCAL 139		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																																			
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 19		JD UTC 139		VIDEO FWD UPPER CAMERA		FILE 1854																																																																																																																			
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3935																																																																																																																			
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USGS STA 4600		SBNMS SITE C14		CONSECUTIVE STA 23		QUAD 5		dep 285																																																																																																																			
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 100748		DPH, m 31		LAT N 42 deg 18.441 min		LON W 70 deg 18.454 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 100854		DPH, m		LAT N 42 deg 18.45011 min		LON W 70 deg 18.439 min																																																																																																																			
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<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input type="checkbox"/> OFF SEABED	HH MM SS LOCAL 100956		DPH, m		LAT N 42 deg 18.465 min		LON W 70 deg 18.424 min																																																																																																																			
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PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION

SBNMS Site

CONSEC STA

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 19		JD LOCAL 139		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																											
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 19		JD UTC 139		VIDEO FWD UPPER CAMERA		FILE 1855																																																																																											
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3936																																																																																											
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USGS STA 4601		SBNMS SITE C1		CONSECUTIVE STA 24		QUAD 5		286																																																																																											
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 102902		DPH, m 32		LAT N 18.582 42 deg 18.584 min		LON W 17.1488 70 deg 17.146 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 103040		DPH, m		LAT N 18.604 42 deg 18.602 min		LON W 17.133 70 deg 17.1353 min																																																																																											
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 103314		DPH, m		LAT N 18.623 42 deg 18.6221 min		LON W 17.108 70 deg 17.1107 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 103552		DPH, m		LAT N 18.650 42 deg 18.6481 min		LON W 17.083 70 deg 17.0853 min																																																																																											
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL		DPH, m		LAT N 42 deg min		LON W 70 deg min																																																																																											
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RIGHT 7.5 LEFT 9.5		RT 2.1 + LFT 1.3 = 3.4		<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 type="checkbox"/> GRAB STILLs <input checked="" type="checkbox"/> next plfwd <input type="checkbox"/> NO INVERTS PRESENT																																																																																															
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PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION 4601

SBNMS Site C1, CONSEC STA 24

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 19		JD LOCAL 139	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
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MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA		FILE 3937																																																																																															
LOCAL TIME: EDT																																																																																																						
USGS STA 4602		SBNMS SITE C2		CONSECUTIVE STA 25		QUAD 5	287																																																																																															
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 10 59 34	DPH, m 32	LAT N 17.645 42 deg 17.649 min	LON W 16.812 70 deg 16.906 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 11 00 54	DPH, m	LAT N 17.6610 42 deg 17.662 min	LON W 16.8953 70 deg 16.891 min																																																																																																	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 11 02 36	DPH, m	LAT N 17.677 42 deg 17.678 min	LON W 16.8714 70 deg 16.867 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 11 06 16	DPH, m	LAT N 17.6990 42 deg 17.700 min	LON W 16.8240 70 deg 16.822 min																																																																																																	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg	LON W 70 deg																																																																																																	
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC	DDD : HH : MM : SS 139 15 06 16																																																																																																			
<input checked="" type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input checked="" type="checkbox"/> grvl in jaws;																																																																																																						
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RIGHT _____ LEFT _____		RT _____ + LFT _____ = _____		<input type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAIST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input type="checkbox"/> GRAB STILLs <input checked="" type="checkbox"/> vent flow <input type="checkbox"/> NO INVERTS PRESENT																																																																																																		
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3"></th> <th colspan="2">SEABED DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>att epifauna</td> <td>herring eggs</td> <td>skate</td> <td colspan="2">storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Boltenia tunic.</td> <td>lobster</td> <td>Suberites spg</td> <td colspan="2">crests: <input checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded</td> </tr> <tr> <td>brachiopod</td> <td>monkfish</td> <td>squid</td> <td colspan="2"><input checked="" type="checkbox"/> straight <input checked="" type="checkbox"/> multi-rippled</td> </tr> <tr> <td>bushy bry/hyd</td> <td>moon snail</td> <td>tunicate, B pilu.</td> <td colspan="2">grvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cancer crab</td> <td>mussels</td> <td>yellow encr. spg</td> <td colspan="2">small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ceri burr anem</td> <td>ocean pout</td> <td></td> <td colspan="2">sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cod; cod juvenile</td> <td></td> <td></td> <td colspan="2">sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ctenophores</td> <td>Polymastia spg</td> <td></td> <td colspan="2">gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>coralline algae</td> <td>red encr. spg</td> <td></td> <td colspan="2">boulders <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cunner</td> <td>red hake</td> <td>patung of r-egs / pcb G</td> <td colspan="2">mud <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dk yellow spg</td> <td>sand dollars</td> <td></td> <td colspan="2">trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Didemnum cols</td> <td></td> <td></td> <td colspan="2">trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dogfish</td> <td></td> <td>hldr</td> <td colspan="2">sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>finger spg</td> <td>scallops</td> <td></td> <td colspan="2">sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>✓ flounder</td> <td>✓ sculpin</td> <td></td> <td colspan="2">sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>haddock</td> <td>sea stars</td> <td></td> <td colspan="2">SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg</td> </tr> <tr> <td>herring</td> <td></td> <td></td> <td colspan="2">SL nos:</td> </tr> <tr> <td></td> <td>silver hake</td> <td>shells/fragments</td> <td colspan="2"></td> </tr> </tbody> </table>											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 checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded		brachiopod	monkfish	squid	<input checked="" type="checkbox"/> straight <input checked="" type="checkbox"/> multi-rippled		bushy bry/hyd	moon snail	tunicate, B pilu.	grvl 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	patung of r-egs / pcb G	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			trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N		dogfish		hldr	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 type="checkbox"/> Y, <input checked="" 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	shells/fragments		
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coralline algae	red encr. spg		boulders <input type="checkbox"/> Y, <input type="checkbox"/> N																																																																																																			
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herring			SL nos:																																																																																																			
	silver hake	shells/fragments																																																																																																				

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 4602

SBNMS Site C2, CONSEC STA 25

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 19		JD LOCAL 139		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																																			
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 19		JD UTC 139		VIDEO FWD UPPER CAMERA		FILE 1857																																																																																																																			
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3938																																																																																																																			
LOCAL TIME: EDT																																																																																																																											
USGS STA 4603		SBNMS SITE C2		CONSECUTIVE STA 26		QUAD 5		clip 288																																																																																																																			
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 11 11 24	DPH, m 32	LAT N 42 deg 17.7603	min 17.762	LON W 70 deg 16.759	min 16.7631																																																																																																																				
<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 11 12 14	DPH, m	LAT N 42 deg 17.7703	min 17.772	LON W 70 deg 16.750	min 16.754																																																																																																																				
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg	min	LON W 70 deg	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 11 14 12	DPH, m	LAT N 42 deg 17.784	min 17.7830	LON W 70 deg 16.730	min 16.733																																																																																																																				
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg	min	LON W 70 deg	min 7328																																																																																																																				
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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	patches		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N		cunner	red hake	1-cg5/10 G		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				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 checked="" type="checkbox"/> N		flounder	sculpin			sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N		haddock	sea stars			sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N		herring				SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg			silver hake	shells/fragments		SL nos:	
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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 4603

SBNMS Site C2, CONSEC STA 26

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 19		JD LOCAL 139	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 19		JD UTC 139	VIDEO FWD UPPER CAMERA FILE 1858		
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA FILE 3939		
LOCAL TIME: EDT							
USGS STA 4604		SBNMS SITE C13		CONSECUTIVE STA 27		QUAD 5	289
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 113140	DPH, m 31	LAT N 17.505 42 deg 17.506 min	LON W 18.312 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 113302	DPH, m	LAT N 17.514 42 deg 17.513 min	LON W 18.303 min		
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 113722	DPH, m	LAT N 17.537 42 deg 17.539 min	LON W 18.267 min		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SMPL ATTEMPT <input type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 113850	DPH, m	LAT N 17.546 42 deg 17.545 min	LON W 18.253 min		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 18.254 min		
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 139 15 37 22			
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input checked="" type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input checked="" type="checkbox"/> grvl in jaws; <i>collected sand veneer</i>							
DPH TO SED SURF IN GRAB, cm RIGHT 11, LEFT 12.5		SED VOL IN GRAB, liters RT 0.8, LFT 0.4 = 1.2		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 checked="" type="checkbox"/> INVERTS <input type="checkbox"/> GRAB STILLs <input checked="" type="checkbox"/> vent <input type="checkbox"/> NO INVERTS PRESENT			
<i>sand veneer sampled</i>							
alt epifauna	herring eggs	skate	SEABED DESCRIPTION				
Boltenia tunic.	lobster	Suberites spg	storm sand ripples <input type="checkbox"/> Y, <input checked="" 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	<i>patches</i>	boulders <input type="checkbox"/> Y, <input type="checkbox"/> N				
dk yellow spg	sand dollars	<i>patches</i>	mud <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 checked="" type="checkbox"/> N				
flounder	sculpin		sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N				
haddock	sea stars		sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N				
herring			SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg				
	silver hake	shells/fragments	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 4604

SBNMS Site C13, CONSEC STA 27

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 19		JD LOCAL 139	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 19		JD UTC 139	VIDEO FWD UPPER CAMERA FILE 1859		
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA FILE 3940		
LOCAL TIME: EDT							
USGS STA 4605		SBNMS SITE C12		CONSECUTIVE STA 28		QUAD 5	290
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 120336	DPH, m 33	LAT N 42 deg 16.4712 16.474 min	LON W 70 deg 18.164 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 120436	DPH, m	LAT N 42 deg 16.483 16.486 min .4827	LON W 70 deg 18.1605 18.180 min		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg 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 121004	DPH, m	LAT N 42 deg 16.526 min 16.526	LON W 70 deg 18.154 min 18.154		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg .5259 min	LON W 70 deg .1539 min		
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 139 16 10 04			
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly-open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input checked="" type="checkbox"/> grvl in jaws;							
DPH TO SED SURF IN GRAB, cm RIGHT 12.5 LEFT -		SED VOL IN GRAB, liters RT 0.4 + LFT - = 0.4		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 checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input checked="" type="checkbox"/> next pl tow <input type="checkbox"/> NO INVERTS PRESENT			
Sand veneer sampled							
att epifauna		herring eggs		skate		SEABED DESCRIPTION	
Boltenia tunic.		lobster		Suberites spg		storm sand ripples v. faint <input checked="" 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 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						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		<input checked="" type="checkbox"/> scallops				sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	
flounder		<input checked="" type="checkbox"/> sculpin				sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	
haddock		sea stars				sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	
herring						SL size: <input type="checkbox"/> sm <input type="checkbox"/> med <input type="checkbox"/> lg	
		silver hake		shells/fragments		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 4605

SBNMS Site C12, CONSEC STA 28

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 19		JD LOCAL 139	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 19		JD UTC 139	VIDEO FWD UPPER CAMERA no FILE 1860		
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA FILE 1860		
LOCAL TIME: EDT							
USGS STA 4606		SBNMS SITE C3		CONSECUTIVE STA 29		QUAD 5	29F
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 122856	DPH, m 30	LAT N 42 deg 16.697 min	LON W 70 deg 16.764 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 123016	DPH, m	LAT N 42 deg 16.700 min	LON W 70 deg 16.762 min		
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 123110	DPH, m	LAT N 42 deg 16.702 min	LON W 70 deg 16.762 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 123602	DPH, m	LAT N 42 deg 16.743 min	LON W 70 deg 16.749 min		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg 16.742 min	LON W 70 deg 16.750 min		
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 139 16 31 10			
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;							
DPH TO SED SURF IN GRAB, cm RIGHT 15, LEFT 4		SED VOL IN GRAB, liters RT 4.7 + LFT 3.6 = 8.3		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 checked="" type="checkbox"/> NO INVERTS PRESENT			
att epifauna		herring eggs		SEABED DESCRIPTION			
Boltenia tunic.		lobster		storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N			
brachiopod		monkfish		crests: <input checked="" type="checkbox"/> sharp <input checked="" type="checkbox"/> rounded			
bushy bry/hyd		moon snail		<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled			
cancer crab		mussels		gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N			
ceri burr anem		ocean pout		small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N			
cod; cod juvenile		✓ herring		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		patch		trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N			
dogfish		r-egs / pcb G		trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N			
finger spg		✓ scallops		sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N			
flounder		✓ sculpin		sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N			
haddock		sea stars		sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N			
herring				SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg			
		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 4606

SBNMS Site C3, CONSEC STA 29

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL		JD LOCAL		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MAY - 19		139					
MONTH YEAR: MAY 2017		MONTH - DAY UTC		JD UTC		VIDEO FWD UPPER CAMERA		FILE 1861	
LOCAL TIME: EDT		MAY - 19		139		VIDEO FWD LOWER CAMERA <i>no</i>		FILE <i>GoPro, use seaview</i>	
USGS STA 4607		SBNMS SITE C4		CONSECUTIVE STA 30		QUAD 5		<i>2925</i>	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 125626	DPH, m 28	LAT N 42 deg	15.738 15.738 min	LON W 70 deg	16.600 16.600 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 125750	DPH, m	LAT N 42 deg	15.7409 15.741 min	LON W 70 deg	16.600 16.600 min		
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 125848	DPH, m	LAT N 42 deg	15.743 15.743 min	LON W 70 deg	16.605 16.601 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 130308	DPH, m	LAT N 42 deg	15.754 15.754 min	LON W 70 deg	16.612 16.612 min		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg	15.759 15.759 min	LON W 70 deg	16.619 16.619 min		
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS					
				139 16 58 48					
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;									
DPH TO SED SURF IN GRAB, cm		SED VOL IN GRAB, liters		SAMPLES / DATA COLLECTED					
RIGHT 1, LEFT 1.5		RT 4.9 + LFT 4.7 = 9.6		<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 checked="" type="checkbox"/> <i>very pl. tow</i> <input type="checkbox"/> NO INVERTS PRESENT					
			SEABED DESCRIPTION						
att epifauna	herring eggs	<input checked="" type="checkbox"/>	skate 2 wh spots						
Boltonia tunic.	lobster		Suberites spg	storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N					
brachiopod	monkfish		squid	crests: <input checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded					
bushy bry/hyd	moon snail		<i>hy. dredge</i>	<input type="checkbox"/> straight <input checked="" type="checkbox"/> multi-rippled					
cancer crab	mussels		turkate, B pilu.	grvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N					
ceri burr anem	ocean pout		yellow encr. spg	small ripples <input 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				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 checked="" type="checkbox"/> N					
flounder	<input checked="" type="checkbox"/> sculpin			sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N					
haddock	sea stars			sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N					
herring				SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg					
	silver hake		shells/fragments	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 4607

SBNMS Site C4, CONSEC STA 30

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 19		JD LOCAL 139	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 19		JD UTC 139	VIDEO FWD UPPER CAMERA		FILE 1862
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA		FILE 3941
LOCAL TIME: EDT							
USGS STA 4608		SBNMS SITE C11		CONSECUTIVE STA 31		QUAD 5	clip 293
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 13 21 34	DPH, m 33	LAT N 15.5833 42 deg 15.584 min	LON W 17.9611 70 deg 17.962 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 13 22 54	DPH, m	LAT N 15.588 42 deg 15.588 min .5857	LON W 17.9652 70 deg 17.967 min		
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 13 24 16	DPH, m	LAT N 15.5930 42 deg 15.594 min	LON W 17.972 70 deg 17.973 min .9719		
<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 13 28 24	DPH, m	LAT N 15.605 42 deg 15.605 min .6045	LON W 17.9973 70 deg 17.999 min		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg min		
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC	DDD : HH : MM : SS 139 17 24 16				
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;							
DPH TO SED SURF IN GRAB, cm		SED VOL IN GRAB, liters		SAMPLES / DATA COLLECTED			
RIGHT 5 LEFT 5.5		RT 3.1 + LFT 2.9 = 6		<input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPGRADE <input type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILLs <input checked="" type="checkbox"/> next row <input type="checkbox"/> NO INVERTS PRESENT			
				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 checked="" 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			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 type="checkbox"/> Y, <input checked="" 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	shells/fragments					

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 4608
SBNMS Site C11, **CONSEC STA** 31

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL		JD LOCAL	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																													
LOCATION: STELLWAGEN BANK NMS		MAY - 19		139																																																																															
MONTH YEAR: MAY 2017		MONTH - DAY UTC		JD UTC	VIDEO FWD UPPER CAMERA		FILE 1863																																																																												
LOCAL TIME: EDT		MAY - 19		139	VIDEO FWD LOWER CAMERA		FILE 3942																																																																												
USGS STA 4609		SBNMS SITE C10		CONSECUTIVE STA 32		QUAD 5	clip 294																																																																												
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 134720	DPH, m 32	LAT N 42 deg 14.568 14.570 min 14.5676	LON W 70 deg 17.828 17.8234 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 134856	DPH, m	LAT N 42 deg 14.5791 14.580 min	LON W 70 deg 17.8420 17.844 min																																																																														
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 135010	DPH, m	LAT N 42 deg 14.586 14.5853 min	LON W 70 deg 17.856 17.858 min 17.855																																																																														
<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 135406	DPH, m	LAT N 42 deg 14.6108 14.611 min	LON W 70 deg 17.904 17.906 min 17.9037																																																																														
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg min																																																																														
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC	DDD : HH : MM : SS 139 17 50 10																																																																																
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;																																																																																			
DPH TO SED SURF IN GRAB, cm		SED VOL IN GRAB, liters		SAMPLES / DATA COLLECTED																																																																															
RIGHT 3	LEFT 3	RT 4 +LFT 4 = 8		<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 checked="" type="checkbox"/> NO INVERTS PRESENT																																																																															
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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 4609

SBNMS Site C10 **CONSEC STA** 32

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 19		JD LOCAL 139	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 19		JD UTC 139	VIDEO FWD UPPER CAMERA FILE 1865		VIDEO FWD LOWER CAMERA FILE 3943
MONTH YEAR: MAY 2017							
LOCAL TIME: EDT							
USGS STA 4610		SBNMS SITE C5		CONSECUTIVE STA 33		QUAD 5	295
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 141708	DPH, m 28	LAT N 42 deg 14.819 min	LON W 70 deg 16.466 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 141810	DPH, m	LAT N 42 deg 14.833 min	LON W 70 deg 16.480 min		
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 141850	DPH, m	LAT N 42 deg 14.841 min	LON W 70 deg 16.489 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 142326	DPH, m	LAT N 42 deg 14.886 min	LON W 70 deg 16.551 min		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg min		
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 139 18 18 50			
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input checked="" type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input checked="" type="checkbox"/> grvl in jaws;							
DPH TO SED SURF IN GRAB, cm RIGHT 13, LEFT 13.5		SED VOL IN GRAB, liters RT 0.3 + LFT 0.2 = 0.5		SAMPLES / DATA COLLECTED <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 checked="" type="checkbox"/> GRAB STILL <input checked="" type="checkbox"/> NO INVERTS PRESENT			
smpl sample sand veneer sampled							
att epifauna		herring eggs		skate		SEABED DESCRIPTION	
Boltonia tunic.		lobster		Suberites spg		storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N	
brachiopod		monkfish		squid		crests: <input checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded	
bushy bry/hyd		moon snail				<input checked="" 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 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						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 checked="" type="checkbox"/> N	
flounder		sculpin				sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	
haddock		sea stars				sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	
herring						SL size: <input type="checkbox"/> sm <input type="checkbox"/> med <input type="checkbox"/> lg	
		silver hake ?		shells/fragments		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 4610

SBNMS Site C5, CONSEC STA 33

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL		JD LOCAL		<input checked="" type="checkbox"/> DAY		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MAY - 19		139		<input type="checkbox"/> NIGHT																																																																																																		
MONTH YEAR: MAY 2017		MONTH - DAY UTC		JD UTC		VIDEO FWD UPPER CAMERA		FILE 1867																																																																																																
LOCAL TIME: EDT		MAY - 19		139		VIDEO FWD LOWER CAMERA		FILE 3945																																																																																																
USGS STA 4611		SBNMS SITE C6		CONSECUTIVE STA 34		QUAD 5		clip 296																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 144924	DPH, m 26	LAT N 42 deg	13.793 13.797 7928 min	LON W 70 deg	16.3842 16.385 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 145042	DPH, m	LAT N 42 deg	13.844 13.815 8138 min	LON W 70 deg	16.385 16.384 min																																																																																																	
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 145130	DPH, m	LAT N 42 deg	13.8251 13.828 min	LON W 70 deg	16.382 16.380 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 145548	DPH, m	LAT N 42 deg	13.872 13.874 8716 min	LON W 70 deg	16.373 16.373 min																																																																																																	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg	min	LON W 70 deg	min																																																																																																	
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PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION

SBNMS Site

CONSEC STA

4611

C6

34

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 19		JD LOCAL 139		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																																			
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 19		JD UTC 139		VIDEO FWD UPPER CAMERA		FILE 1868																																																																																																																			
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3946																																																																																																																			
LOCAL TIME: EDT																																																																																																																											
USGS STA 4612		SBNMS SITE C9		CONSECUTIVE STA 35		QUAD 5		dep 297																																																																																																																			
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 151512		DPH, m 29		LAT N 13.536 42 deg 13.536 min		LON W 17.602 70 deg 17.602 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 151624		DPH, m		LAT N 13.5451 42 deg 13.547 min		LON W 17.602 70 deg 17.600 min .6016																																																																																																																			
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 151850		DPH, m		LAT N 13.5590 42 deg 13.560 min		LON W 17.6012 70 deg 17.601 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 152134		DPH, m		LAT N 13.5790 42 deg 13.580 min		LON W 17.6133 70 deg 17.614 min																																																																																																																			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL		DPH, m		LAT N 42 deg min		LON W 70 deg min																																																																																																																			
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 139 19 18 50																																																																																																																							
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;																																																																																																																											
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RIGHT 3, LEFT 3		RT 4 + LFT 4 = 8		<input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPGRADE <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILL <input checked="" type="checkbox"/> NO INVERTS PRESENT																																																																																																																							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2">SEABED DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>att epifauna</td> <td></td> <td>herring eggs</td> <td></td> <td>skate</td> <td>storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Boltonia tunic.</td> <td></td> <td>lobster</td> <td></td> <td>Suberites spg</td> <td>crests: <input type="checkbox"/> sharp <input checked="" type="checkbox"/> rounded</td> </tr> <tr> <td>brachiopod</td> <td></td> <td>monkfish</td> <td></td> <td>squid</td> <td><input type="checkbox"/> straight <input checked="" type="checkbox"/> multi-rippled</td> </tr> <tr> <td>bushy bry/hyd</td> <td></td> <td>moon snail</td> <td></td> <td></td> <td>gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cancer crab</td> <td></td> <td>mussels</td> <td></td> <td>tunicate, B pilu.</td> <td>small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ceri burr anem</td> <td></td> <td>ocean pout</td> <td></td> <td>yellow encr. spg</td> <td>sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cod; cod juvenile</td> <td></td> <td></td> <td></td> <td></td> <td>sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ctenophores</td> <td></td> <td>Polymastia spg</td> <td></td> <td></td> <td>gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>coralline algae</td> <td></td> <td>red encr. spg</td> <td></td> <td></td> <td>boulders <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cunner</td> <td></td> <td>red hake</td> <td></td> <td></td> <td>mud <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dk yellow spg</td> <td><input checked="" type="checkbox"/></td> <td>sand dollars</td> <td></td> <td></td> <td>trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Didemnum cols</td> <td></td> <td></td> <td></td> <td></td> <td>trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dogfish</td> <td></td> <td></td> <td></td> <td></td> <td>sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>finger spg</td> <td><input checked="" type="checkbox"/></td> <td>scallops</td> <td></td> <td></td> <td>sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>flounder</td> <td><input checked="" type="checkbox"/></td> <td>sculpin</td> <td></td> <td></td> <td>sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>haddock</td> <td></td> <td>sea stars</td> <td></td> <td></td> <td>SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg</td> </tr> <tr> <td>herring</td> <td></td> <td></td> <td></td> <td></td> <td>SL nos:</td> </tr> <tr> <td></td> <td></td> <td>silver hake</td> <td></td> <td>shells/fragments</td> <td></td> </tr> </tbody> </table>														SEABED DESCRIPTION		att epifauna		herring eggs		skate	storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N	Boltonia 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			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	<input checked="" type="checkbox"/>	sand dollars			trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N	Didemnum cols					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	<input checked="" type="checkbox"/>	scallops			sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	flounder	<input checked="" type="checkbox"/>	sculpin			sand lance in sed sample <input type="checkbox"/> Y, <input checked="" 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		shells/fragments	
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brachiopod		monkfish		squid	<input type="checkbox"/> straight <input checked="" type="checkbox"/> multi-rippled																																																																																																																						
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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

SBNMS Site

CONSEC STA

4612

C9

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CRUISE: USGS AUK2017030		MONTH - DAY LOCAL		JD LOCAL	<input checked="" type="checkbox"/> DAY	Sunset: May 18, 2017 2002 EDT = 0002 UTC
LOCATION: STELLWAGEN BANK NMS		MAY - 19		139	<input type="checkbox"/> NIGHT	
MONTH YEAR: MAY 2017		MONTH - DAY UTC		JD UTC	VIDEO FWD UPPER CAMERA	FILE 1869
LOCAL TIME: EDT		MAY - 19		139	VIDEO FWD LOWER CAMERA	FILE 3947
USGS STA 4613		SBNMS SITE C8		CONSECUTIVE STA 36		QUAD 5 <i>dep 298</i>
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START	HH MM SS LOCAL	DPH, m	LAT N	LON W	
	<input checked="" type="checkbox"/> WATER COLUMN	154156	27	42 deg 12.501	70 deg 17.372	
				<i>min 12.499</i>	<i>min 17.368</i>	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START	HH MM SS LOCAL	DPH, m	LAT N	LON W	
	<input checked="" type="checkbox"/> ON SEABED	154326		42 deg 12.515	70 deg 17.361	
	<input type="checkbox"/> SMPL ATTEMPT			<i>min 12.513</i>	<i>min 17.3613</i>	
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N	LON W	
		154410		42 deg 12.521	70 deg 17.364	
				<i>min 12.520</i>	<i>min 17.3621</i>	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N	LON W	
	<input checked="" type="checkbox"/> VIDEO END	154852		42 deg 12.557	70 deg 17.376	
	<input checked="" type="checkbox"/> OFF SEABED			<i>min 12.5561</i>	<i>min 17.3754</i>	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N	LON W	
				42 deg	70 deg	
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC	DDD : HH : MM : SS			
			139 19 44 10			
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;						
DPH TO SED SURF IN GRAB, cm		SED VOL IN GRAB, liters		SAMPLES / DATA COLLECTED		
RIGHT 3.5	LEFT 4	RT 3.8 + LFT 3.6 = 7.4				
				<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 checked="" type="checkbox"/> <i>vert pln to w</i> <input type="checkbox"/> NO INVERTS PRESENT		
				SEABED DESCRIPTION		
<input type="checkbox"/> att epifauna	<input type="checkbox"/> herring eggs	<input type="checkbox"/> skate	<input checked="" type="checkbox"/> 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	<input type="checkbox"/> 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.	<input type="checkbox"/> gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N			
<input type="checkbox"/> cancer crab	<input type="checkbox"/> mussels	<input type="checkbox"/> yellow encr. spg	<input type="checkbox"/> 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 <input type="checkbox"/> Y, <input type="checkbox"/> N			
<input type="checkbox"/> cod; cod juvenile			<input type="checkbox"/> sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N			
<input type="checkbox"/> ctenophores	<input type="checkbox"/> Polymastia spg		<input type="checkbox"/> gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N			
<input type="checkbox"/> coralline algae	<input type="checkbox"/> red encr. spg		<input type="checkbox"/> boulders <input type="checkbox"/> Y, <input type="checkbox"/> N			
<input type="checkbox"/> cunner	<input checked="" type="checkbox"/> red hake		<input type="checkbox"/> mud <input type="checkbox"/> Y, <input type="checkbox"/> N			
<input type="checkbox"/> dk yellow spg	<input checked="" type="checkbox"/> sand dollars		<input type="checkbox"/> trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N			
<input type="checkbox"/> Didemnum cols			<input type="checkbox"/> trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N			
<input type="checkbox"/> dogfish			<input type="checkbox"/> sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N			
<input type="checkbox"/> finger spg	<input type="checkbox"/> scallops		<input type="checkbox"/> sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N			
<input type="checkbox"/> flounder	<input checked="" type="checkbox"/> sculpin		<input type="checkbox"/> sand lance in sed sample <input type="checkbox"/> Y, <input checked="" 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	<input type="checkbox"/> shells/fragments				

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

USGS STATION

SBNMS Site

CONSEC STA

4613

C8

36

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 19		JD LOCAL 139		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 19		JD UTC 139		VIDEO FWD UPPER CAMERA		FILE 1870																																																																																																
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3948																																																																																																
LOCAL TIME: EDT																																																																																																								
USGS STA 4614		SBNMS SITE C7		CONSECUTIVE STA 37		QUAD 5		299																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 160352	DPH, m 25	LAT N 12.7407 42 deg 12.742 min	LON W 16.062 min 70 deg 16.062 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 160454	DPH, m	LAT N 12.7524 42 deg 12.754 min	LON W 16.0612 min 70 deg 16.062 min																																																																																																			
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 160536	DPH, m	LAT N 12.765 42 deg 12.7623 min	LON W 16.068 min 70 deg 16.068 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 161012	DPH, m	LAT N 12.809 42 deg 12.809 min	LON W 16.0612 min 70 deg 16.061 min																																																																																																			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N .8079 42 deg min	LON W min 70 deg min																																																																																																			
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RIGHT _____, LEFT _____		RT _____ + LFT _____ = _____		<input type="checkbox"/> SEDIMENT <input type="checkbox"/> CTD UPCAST <input type="checkbox"/> GPS NAV FILE <input checked="" type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input type="checkbox"/> GRAB STILLs <input checked="" type="checkbox"/> NO INVERTS PRESENT																																																																																																				
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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 4614

SBNMS Site C7

CONSEC STA 37

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL		JD LOCAL		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																											
LOCATION: STELLWAGEN BANK NMS		MAY - 19		139																																																																																															
MONTH YEAR: MAY 2017		MONTH - DAY UTC		JD UTC		VIDEO FWD UPPER CAMERA		FILE 1871																																																																																											
LOCAL TIME: EDT		MAY - 19		139		VIDEO FWD LOWER CAMERA		FILE 3949																																																																																											
USGS STA 4615		SBNMS SITE C7		CONSECUTIVE STA 38		QUAD 5		clip 300																																																																																											
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 161442		DPH, m 25		LAT N 42 deg 12.866 12.862 min .8599		LON W 70 deg 16.011 min 16.011 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 161524		DPH, m		LAT N 42 deg 12.866 12.867 min .8656		LON W 70 deg 16.0062 16.004 min																																																																																											
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 1616		DPH, m		LAT N 42 deg min		LON W 70 deg min																																																																																											
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SMPL ATTEMPT <input checked="" type="checkbox"/> VIDEO END <input type="checkbox"/> OFF SEABED	HH MM SS LOCAL 161610		DPH, m		LAT N 42 deg 12.874 min 12.8721		LON W 70 deg 16.000 min 16.0011																																																																																											
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL		DPH, m		LAT N 42 deg min		LON W 70 deg min																																																																																											
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DISTANCE BETWEEN PARALLEL LASERS = 20 CM

PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION 4615

SBNMS Site C7, CONSEC STA 38

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 19		JD LOCAL 139		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																																			
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 19		JD UTC 139		VIDEO FWD UPPER CAMERA		FILE no video																																																																																																																			
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<input checked="" type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <i>in water</i> <input type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 163228	DPH, m 26	LAT N 42 deg 12.908 min <i>12.9743</i>		LON W 70 deg 15.746 min <i>15.7665</i>																																																																																																																					
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <i>out of water</i> <input type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 164320	DPH, m 26	LAT N 42 deg 12.775 min <i>12.775</i>		LON W 70 deg 15.259 min <i>15.2851</i>																																																																																																																					
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg 12.775 min <i>12.775</i>		LON W 70 deg 15.259 min <i>15.2851</i>																																																																																																																					
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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 UPGRADE <input type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input type="checkbox"/> GRAB STILL <input checked="" type="checkbox"/> 1-m plk <input type="checkbox"/> NO INVERTS PRESENT																																																																																																																							
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finger spg	scallops			sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N																																																																																																																							
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herring				SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg																																																																																																																							
	silver hake	shells/fragments		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

SBNMS Site C7, CONSEC STA 39

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL		JD LOCAL		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MAY - 23		143					
MONTH YEAR: MAY 2017		MONTH - DAY UTC		JD UTC		VIDEO FWD UPPER CAMERA		FILE	
LOCAL TIME: EDT		MAY - 23		143		VIDEO FWD LOWER CAMERA		FILE	
USGS STA 4617 PT		SBNMS SITE 51		CONSECUTIVE STA 40		QUAD 2			
<input checked="" type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <i>in water</i> <input type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 090446	DPH, m 40	LAT N 42 deg 11.158 11.1533 min		LON W 70 deg 20.2952 20.322 min			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <i>out of water</i> <input type="checkbox"/> ON SEABED <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 091518	DPH, m 43	LAT N 42 deg 11.458 11.453 min		LON W 70 deg 20.5963 20.603 min			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N 42 deg 11.4525 min		LON W 70 deg 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	LAT N 42 deg min		LON W 70 deg min			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg min		LON W 70 deg min			
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 143 13 04 46					
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws; <i>1-m water plankton tow for J. Lopez</i>									
DPH TO SED SURF IN GRAB, cm		SED VOL IN GRAB, liters		SAMPLES / DATA COLLECTED <i>1-m net</i>					
RIGHT _____ LEFT _____		RT _____ + LFT _____ = _____		<input type="checkbox"/> SEDIMENT <input type="checkbox"/> CTD UPGRADE <input type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input type="checkbox"/> GRAB STILLs <input checked="" type="checkbox"/> <i>plank tow</i> <input type="checkbox"/> NO INVERTS PRESENT					

		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
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			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	shells/fragments	

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 4617 PT
 SBNMS Site 51, CONSEC STA 40

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 23		JD LOCAL 143	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 23		JD UTC 143	VIDEO FWD UPPER CAMERA no video		FILE
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA no video		FILE
LOCAL TIME: EDT							
USGS STA 4618PT		SBNMS SITE 51		CONSECUTIVE STA 41		QUAD 2	
<input checked="" type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 092524	DPH, m 41	LAT N 11.2124 42 deg 11.219 min		LON W 20.347 70 deg 20.359 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 093458	DPH, m 43	LAT N 11.465 42 deg 11.459 min		LON W 20.626 70 deg 20.6152 min	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL	DPH, m	LAT N .4587 42 deg min		LON W 70 deg 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	LAT N 42 deg min		LON W 70 deg min	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg min		LON W 70 deg min	
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 143 13 25 24			
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws; <input type="checkbox"/> plankton tow A. Robach							
DPH TO SED SURF IN GRAB, cm		SED VOL IN GRAB, liters		SAMPLES / DATA COLLECTED 1-m net			
RIGHT _____ LEFT _____		RT _____ +LFT _____ = _____		<input type="checkbox"/> SEDIMENT <input type="checkbox"/> CTD UPCAST <input type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input type="checkbox"/> GRAB STILLs <input checked="" type="checkbox"/> plankton tow <input type="checkbox"/> NO INVERTS PRESENT			
				SEABED DESCRIPTION			
att epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N				
Boltenia tunic.	lobster	Suberites spg					
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 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			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	shells/fragments	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 4618PT

SBNMS Site 51, CONSEC STA 41

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL		JD LOCAL		<input checked="" type="checkbox"/> DAY		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																																			
LOCATION: STELLWAGEN BANK NMS		MAY - 23		143		<input type="checkbox"/> NIGHT																																																																																																																					
MONTH YEAR: MAY 2017		MONTH - DAY UTC		JD UTC		VIDEO FWD UPPER CAMERA		FILE 118.72																																																																																																																			
LOCAL TIME: EDT		MAY - 23		143		VIDEO FWD LOWER CAMERA		FILE 3950																																																																																																																			
USGS STA 4619		SBNMS SITE S1		CONSECUTIVE STA 42		QUAD 2		301																																																																																																																			
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START	HH MM SS LOCAL		DPH, m		LAT N		LON W																																																																																																																			
	<input checked="" type="checkbox"/> WATER COLUMN	095304		43		11.526 42 deg 11.5280 min		20.6305 70 deg 20.624 min																																																																																																																			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START	HH MM SS LOCAL		DPH, m		LAT N		LON W																																																																																																																			
	<input type="checkbox"/> ON SEABED	095444				11.513 42 deg 11.5142 min		.6065 70 deg 20.604 min																																																																																																																			
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL		DPH, m		LAT N		LON W																																																																																																																			
		095944				11.468 42 deg 11.4706 min		20.543 70 deg 20.536 min																																																																																																																			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL		DPH, m		LAT N		LON W																																																																																																																			
	<input checked="" type="checkbox"/> VIDEO END	100016				11.464 42 deg 11.465 min		.5426 70 deg 20.534 min																																																																																																																			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL		DPH, m		LAT N		LON W																																																																																																																			
						.4649 42 deg min		.5349 70 deg min																																																																																																																			
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS																																																																																																																							
				143 13 59 44																																																																																																																							
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RIGHT 1, LEFT 2		RT 4.9 + LFT 4.5 = 9.4		<input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCA <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input type="checkbox"/> GRAB STILL <input checked="" type="checkbox"/> NEUTRAL <input type="checkbox"/> NO INVERTS PRESENT																																																																																																																							
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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	<input checked="" type="checkbox"/>	sand dollars			mud <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	<input checked="" type="checkbox"/>	scallops			sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	✓ flounder		✓ sculpin			sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	haddock		sea stars			sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	herring					SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg			silver hake	<input checked="" type="checkbox"/>	shells/fragments	SL nos:
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 DISTANCE BETWEEN PARALLEL LASERS = 20 CM

PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION 4619

SBNMS Site S1, CONSEC STA 42

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 23		JD LOCAL 143		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 23		JD UTC 143		VIDEO FWD UPPER CAMERA		FILE 1873																																																																																																
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USGS STA 4620		SBNMS SITE 52		CONSECUTIVE STA 43		QUAD 2		chip 302																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 1021 20	DPH, m 28	LAT N 42 deg 11.40 D8 11.397 min	LON W 70 deg 18.3352 18.329 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 1022 16	DPH, m	LAT N 42 deg .3867 11.384 min 11.387	LON W 70 deg 18.313 min 18.3181																																																																																																			
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 1023 16	DPH, m	LAT N 42 deg 11.370 min 11.373	LON W 70 deg 18.296 min 18.3004																																																																																																			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SMPL ATTEMPT <input type="checkbox"/> VIDEO END <input checked="" type="checkbox"/> OFF SEABED	HH MM SS LOCAL 1027 24	DPH, m	LAT N 42 deg .3735 11.324 min 11.327	LON W 70 deg 18.234 min 18.2383																																																																																																			
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PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION

SBNMS Site

CONSEC STA

4620

52

43

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 23		JD LOCAL 143		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
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<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 105326	DPH, m	LAT N 42 deg 11.489 min	LON W 70 deg 16.239 min																																																																																																			
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 105640	DPH, m	LAT N 42 deg 11.457 min	LON W 70 deg 16.167 min																																																																																																			
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PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION

SBNMS Site

CONSEC STA

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL		JD LOCAL		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MAY - 23		143																																																																																																				
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USGS STA 4622		SBNMS SITE 54		CONSECUTIVE STA 45		QUAD 2		FILE 3953																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 112012	DPH, m 29	LAT N 42 deg	11.745 11.742 min 11.747	LON W 70 deg	14.3412 14.333 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 112114	DPH, m	LAT N 42 deg	11.730 min 11.7314	LON W 70 deg	14.3079 14.301 min 14.308																																																																																																	
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 112212	DPH, m	LAT N 42 deg	11.717 min 11.720	LON W 70 deg	14.269 min 14.2770																																																																																																	
<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 112642	DPH, m	LAT N 42 deg	11.674 min 11.6751	LON W 70 deg	14.147 min 14.153																																																																																																	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg	min	LON W 70 deg	1529 min																																																																																																	
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PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION 4622
 SBNMS Site 54, CONSEC STA 45

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 23		JD LOCAL 143		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 23		JD UTC 143		VIDEO FWD UPPER CAMERA		FILE 1874	
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3954	
LOCAL TIME: EDT									
USGS STA 4623		SBNMS SITE 55		CONSECUTIVE STA 46		QUAD 3		dup 305	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 11 46 10		DPH, m 35		LAT N 42 deg 11.832.838 min		LON W 70 deg 12.532.5316 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 11 47 28		DPH, m		LAT N 42 deg 11.813.8128 min		LON W 70 deg 12.5013.494 min	
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 11 48 30		DPH, m		LAT N 42 deg 11.8022.800 min		LON W 70 deg 12.4770.470 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 11 52 52		DPH, m		LAT N 42 deg 11.760.7599 min		LON W 70 deg 12.372.366.3716 min	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL		DPH, m		LAT N 42 deg min		LON W 70 deg min	
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 143 15 48 30					
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;									
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				<input checked="" type="checkbox"/> SAND LANCE <input checked="" type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILLs					
				<input checked="" type="checkbox"/> next to cor <input type="checkbox"/> NO INVERTS PRESENT					
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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 type="checkbox"/> N			
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ceri burr anem		ocean pout		yellow encr. spg		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			
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flounder		<input checked="" type="checkbox"/> sculpin "few"				sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N			
haddock		sea stars				sand lance in sed sample <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N			
herring						SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input checked="" type="checkbox"/> lg			
		silver hake		<input checked="" type="checkbox"/> shells/fragments		SL nos: 3			

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

SBNMS Site 55, CONSEC STA 46

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 23		JD LOCAL 143		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 23		JD UTC 143		VIDEO FWD UPPER CAMERA		FILE 1875																																																																																																
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3955																																																																																																
LOCAL TIME: EDT																																																																																																								
USGS STA 4624		SBNMS SITE 56		CONSECUTIVE STA 47		QUAD 3		dep 306																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 121938		DPH, m 41		LAT N 42 deg 11.996 min 11.9982		LON W 70 deg 10.384 min 10.3938																																																																																																
<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 121516		DPH, m		LAT N 42 deg 11.987 min 11.9871		LON W 70 deg 10.341 min 10.3475																																																																																																
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 121612		DPH, m		LAT N 42 deg 11.981 min 11.983		LON W 70 deg 10.314 min 10.3232																																																																																																
<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 122022		DPH, m		LAT N 42 deg 11.956 min 11.9570		LON W 70 deg 10.199 min 10.2064																																																																																																
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL		DPH, m		LAT N 42 deg min		LON W 70 deg min																																																																																																
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 143 16 16 12																																																																																																				
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;																																																																																																								
DPH TO SED SURF IN GRAB, cm RIGHT 4.5 LEFT 5		SED VOL IN GRAB, liters RT 3.4 + LFT 3.1 = 6.5		SAMPLES / DATA COLLECTED																																																																																																				
				<input type="checkbox"/> SEDIMENT <input 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 STILLs																																																																																																				
				<input checked="" type="checkbox"/> NO INVERTS PRESENT																																																																																																				
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3"></th> <th colspan="2">SEABED DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>alt epifauna</td> <td>herring eggs</td> <td>skate</td> <td colspan="2"></td> </tr> <tr> <td>Boltenia tunic.</td> <td>lobster</td> <td>Suberites spg</td> <td colspan="2">storm sand ripples <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>brachiopod</td> <td>monkfish</td> <td>squid</td> <td colspan="2">crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded</td> </tr> <tr> <td>bushy bry/hyd</td> <td>moon snail</td> <td></td> <td colspan="2"><input type="checkbox"/> straight <input type="checkbox"/> multi-rippled</td> </tr> <tr> <td>cancer crab</td> <td>mussels</td> <td>tunicate, B pilu.</td> <td colspan="2">gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ceri burr anem</td> <td>ocean pout</td> <td>yellow encr. spg</td> <td colspan="2">small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cod; cod juvenile</td> <td></td> <td></td> <td colspan="2">sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ctenophores</td> <td>Polymastia spg</td> <td></td> <td colspan="2">sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>coralline algae</td> <td>red encr. spg</td> <td></td> <td colspan="2">gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cunner</td> <td>red hake</td> <td></td> <td colspan="2">boulders <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dk yellow spg</td> <td>sand dollars</td> <td></td> <td colspan="2">mud <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Didemnum cols</td> <td></td> <td></td> <td colspan="2">trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dogfish</td> <td></td> <td></td> <td colspan="2">trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>finger spg</td> <td>✓ scallops "many"</td> <td></td> <td colspan="2">sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>flounder</td> <td>✓ sculpin "few"</td> <td></td> <td colspan="2">sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>haddock</td> <td>sea stars</td> <td></td> <td colspan="2">sand lance in sed sample <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>herring</td> <td></td> <td></td> <td colspan="2">SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg</td> </tr> <tr> <td></td> <td>silver hake</td> <td>✓ shells/fragments</td> <td colspan="2">SL nos: 12</td> </tr> </tbody> </table>													SEABED DESCRIPTION		alt epifauna	herring eggs	skate			Boltenia tunic.	lobster	Suberites spg	storm sand ripples <input type="checkbox"/> Y, <input checked="" 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			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 "many"		sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N		flounder	✓ sculpin "few"		sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N		haddock	sea stars		sand lance in sed sample <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N		herring			SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg			silver hake	✓ shells/fragments	SL nos: 12	
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coralline algae	red encr. spg		gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N																																																																																																					
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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 4624

SBNMS Site 56, CONSEC STA 47

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 23		JD LOCAL 143		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 23		JD UTC 143		VIDEO FWD UPPER CAMERA		FILE <i>ub video</i>																																																																																																
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE <i>3957</i>																																																																																																
LOCAL TIME: EDT																																																																																																								
USGS STA 4625		SBNMS SITE 57		CONSECUTIVE STA 48		QUAD 6		<i>307</i>																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 125022		DPH, m 45		LAT N 42 deg 12.296 min		LON W 70 deg 8.324 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 125214		DPH, m		LAT N 42 deg 12.288 min		LON W 70 deg 8.273 min																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 125328		DPH, m		LAT N 42 deg 12.281 min		LON W 70 deg 8.236 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 125728		DPH, m		LAT N 42 deg 12.259 min		LON W 70 deg 8.173 min																																																																																																
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL		DPH, m		LAT N 42 deg		LON W 70 deg																																																																																																
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DD : HH : MM : SS 143 16 57 28																																																																																																				
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RIGHT _____ LEFT _____		RT _____ + LFT _____ = _____		<input type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPGRADE <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input type="checkbox"/> GRAB STILL <input checked="" type="checkbox"/> <i>new how</i> <input type="checkbox"/> NO INVERTS PRESENT																																																																																																				
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3"></th> <th colspan="2">SEABED DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>att epifauna</td> <td>herring eggs</td> <td>skate</td> <td colspan="2"></td> </tr> <tr> <td>Boltenia tunic.</td> <td>lobster</td> <td>Suberites spg</td> <td colspan="2">storm sand ripples <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>brachiopod</td> <td>monkfish</td> <td>squid</td> <td colspan="2">crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded</td> </tr> <tr> <td>bushy bry/hyd</td> <td>moon snail</td> <td></td> <td colspan="2"><input type="checkbox"/> straight <input type="checkbox"/> multi-rippled</td> </tr> <tr> <td>cancer crab</td> <td>mussels</td> <td>tunicate, B pilu.</td> <td colspan="2">gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ceri burr anem</td> <td>ocean pout</td> <td>yellow encr. spg</td> <td colspan="2">small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cod; cod juvenile</td> <td></td> <td></td> <td colspan="2">sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ctenophores</td> <td>Polymastia spg</td> <td></td> <td colspan="2">sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>coralline algae</td> <td>red encr. spg</td> <td></td> <td colspan="2">gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cunner</td> <td>red hake</td> <td></td> <td colspan="2">boulders <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dk yellow spg</td> <td>sand dollars</td> <td></td> <td colspan="2">mud <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Didemnum cols</td> <td></td> <td></td> <td colspan="2">trawled/dredged shell frags <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dogfish</td> <td></td> <td></td> <td colspan="2">trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>finger spg</td> <td><input checked="" type="checkbox"/> scallops</td> <td></td> <td colspan="2">sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>flounder</td> <td><input checked="" type="checkbox"/> sculpin</td> <td></td> <td colspan="2">sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>haddock</td> <td>sea stars</td> <td></td> <td colspan="2">sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>herring</td> <td></td> <td></td> <td colspan="2">SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg</td> </tr> <tr> <td></td> <td>silver hake</td> <td><input checked="" type="checkbox"/> shells/fragments</td> <td colspan="2">SL nos:</td> </tr> </tbody> </table>													SEABED DESCRIPTION		att epifauna	herring eggs	skate			Boltenia tunic.	lobster	Suberites spg	storm sand ripples <input type="checkbox"/> Y, <input checked="" 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			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	<input checked="" type="checkbox"/> scallops		sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N		flounder	<input checked="" type="checkbox"/> sculpin		sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N		haddock	sea stars		sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N		herring			SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg			silver hake	<input checked="" type="checkbox"/> shells/fragments	SL nos:	
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ctenophores	Polymastia spg		sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N																																																																																																					
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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 4625

SBNMS Site 57 CONSEC STA 48

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 23		JD LOCAL 143		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 23		JD UTC 143		VIDEO FWD UPPER CAMERA		FILE 1877																																																																																																
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3958																																																																																																
LOCAL TIME: EDT																																																																																																								
USGS STA 4626		SBNMS SITE 57		CONSECUTIVE STA 49		QUAD 6		308																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 130822		DPH, m 43		LAT N 42 deg 12.1304 12.127 min		LON W 70 deg 8.4802 8.471 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 130952		DPH, m		LAT N 42 deg 12.1212 12.120 min		LON W 70 deg 8.4351 8.427 min																																																																																																
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 131036		DPH, m		LAT N 42 deg 12.1183 12.118 min		LON W 70 deg 8.4444 8.406 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 131124		DPH, m		LAT N 42 deg 12.118 12.1180 min		LON W 70 deg 8.386 8.3922 min																																																																																																
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL		DPH, m		LAT N 42 deg min		LON W 70 deg min																																																																																																
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 143 17 10 36																																																																																																				
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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 4626
 SBNMS Site 57, CONSEC STA 49

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 23		JD LOCAL 143		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 23		JD UTC 143		VIDEO FWD UPPER CAMERA		FILE 188																																																																																																
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3959																																																																																																
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USGS STA 4627		SBNMS SITE 58		CONSECUTIVE STA 50		QUAD 3		dep 309																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 13 52 54	DPH, m 42	LAT N 42 deg 11.174	min 11.135	LON W 70 deg 8.234	min 8.226																																																																																																	
<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 13 54 30	DPH, m	LAT N 42 deg 11.166	min 11.169	LON W 70 deg 8.177	min 8.185																																																																																																	
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 13 55 16	DPH, m	LAT N 42 deg 11.161	min 11.162	LON W 70 deg 8.150	min 8.161																																																																																																	
<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 13 59 36	DPH, m	LAT N 42 deg 11.154	min 11.154	LON W 70 deg 8.040	min 8.045																																																																																																	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg	min	LON W 70 deg	min																																																																																																	
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PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

USGS STATION

SBNMS Site

CONSEC STA

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 23		JD LOCAL 143	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																													
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 23		JD UTC 143	VIDEO FWD UPPER CAMERA		FILE 1879																																																																												
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA		FILE 3960																																																																												
LOCAL TIME: EDT																																																																																			
USGS STA 4628		SBNMS SITE 59		CONSECUTIVE STA 51		QUAD 3	clip 310																																																																												
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 142444	DPH, m 39	LAT N 42 deg 11.021 11.0233 min	LON W 70 deg 10.342 10.3491 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 142558	DPH, m	LAT N 42 deg 11.0161 11.014 min	LON W 70 deg 10.333 10.328 min -3329																																																																														
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 142644	DPH, m	LAT N 42 deg 11.0086 11.006 min	LON W 70 deg 10.322 10.317 min -3216																																																																														
<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 143108	DPH, m	LAT N 42 deg 10.9781 10.978 min	LON W 70 deg 10.267 10.265 min -2667																																																																														
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PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA

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CONSEC STA

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 23		JD LOCAL 143		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																																											
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 23		JD UTC 143		VIDEO FWD UPPER CAMERA		FILE 1880																																																																																											
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3961																																																																																											
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USGS STA 4629		SBNMS SITE S10		CONSECUTIVE STA 52		QUAD 3		dup 311																																																																																											
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 145436		DPH, m 35		LAT N 10.9605 42 deg 10.961 min		LON W 12.353.3529 70 deg 12.352 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 145624		DPH, m		LAT N 10.947 42 deg 10.947 min .9486		LON W 12.345 70 deg 12.343 min .3445																																																																																											
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 145716		DPH, m		LAT N 10.9422 42 deg 10.941 min		LON W 12.3412 70 deg 12.340 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 150138		DPH, m		LAT N 10.913 42 deg 10.913 min .9137		LON W 12.323 70 deg 12.322 min .3227																																																																																											
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL		DPH, m		LAT N 42 deg min		LON W 70 deg min																																																																																											
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LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 23		JD UTC 143	VIDEO FWD UPPER CAMERA		FILE 1881																																																																								
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USGS STA 4630		SBNMS SITE S11		CONSECUTIVE STA 53		QUAD 2	clip 312																																																																								
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START <input type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 152332	DPH, m 26	LAT N 10.7453 42 deg 10.744 min	LON W 14.3113 70 deg 14.309 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 152436	DPH, m	LAT N 10.7409 42 deg 10.740 min	LON W 14.305 70 deg 14.303 min 3047																																																																										
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 152510	DPH, m	LAT N 10.740 42 deg 10.740 min .7397	LON W 14.3024 70 deg 14.300 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 153142	DPH, m	LAT N 10.732 42 deg 10.732 min .7316	LON W 14.269 70 deg 14.269 min																																																																										
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3"></th> <th>SEABED DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>att epifauna</td> <td>herring eggs</td> <td>skate</td> <td>storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Boltenia tunic.</td> <td>lobster</td> <td>Suberites spg</td> <td>crests: <input type="checkbox"/> sharp <input checked="" type="checkbox"/> rounded</td> </tr> <tr> <td>brachiopod</td> <td>monkfish</td> <td>squid</td> <td><input type="checkbox"/> straight <input checked="" type="checkbox"/> multi-rippled</td> </tr> <tr> <td>bushy bry/hyd</td> <td>moon snail</td> <td>tunicate, B pilu.</td> <td>gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cancer crab</td> <td>mussels</td> <td>yellow encr. spg</td> <td>small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ceri burr anem</td> <td>ocean pout</td> <td></td> <td>sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>ctenophores</td> <td>Polymastia spg</td> <td></td> <td>sand partial veneer on gravel <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>coralline algae</td> <td>red encr. spg</td> <td></td> <td>gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cunner</td> <td>red hake</td> <td></td> <td>boulders <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dk yellow spg</td> <td><input checked="" type="checkbox"/> sand dollars</td> <td></td> <td>mud <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>Didemnum cols</td> <td></td> <td></td> <td>trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dogfish</td> <td></td> <td></td> <td>trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>finger spg</td> <td><input checked="" type="checkbox"/> scallops</td> <td></td> <td>sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>flounder</td> <td><input checked="" type="checkbox"/> sculpin "few"</td> <td></td> <td>sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>haddock</td> <td>sea stars</td> <td></td> <td>sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N</td> </tr> <tr> <td>herring</td> <td></td> <td></td> <td>SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg</td> </tr> <tr> <td></td> <td>silver hake</td> <td>shells/fragments</td> <td>SL nos:</td> </tr> </tbody> </table>											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 checked="" 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	ceri burr anem	ocean pout		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	<input checked="" type="checkbox"/> sand dollars		mud <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	<input checked="" type="checkbox"/> scallops		sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	flounder	<input checked="" type="checkbox"/> sculpin "few"		sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	haddock	sea stars		sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	herring			SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg		silver hake	shells/fragments	SL nos:
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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 4630

SBNMS Site S11, CONSEC STA 53

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 23		JD LOCAL 143		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																													
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 23		JD UTC 143		VIDEO FWD UPPER CAMERA		FILE 1882																																																																													
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3963																																																																													
LOCAL TIME: EDT																																																																																					
USGS STA 4631		SBNMS SITE S12		CONSECUTIVE STA 54		QUAD 2		dep 313																																																																													
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 155242		DPH, m 23		LAT N 42 deg 10.660 min 10.6596		LON W 70 deg 16.285 min 16.289																																																																													
<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 155348		DPH, m		LAT N 42 deg 10.662 min 10.6616		LON W 70 deg 16.304 min 16.304																																																																													
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 155502		DPH, m		LAT N 42 deg 10.6531 min 10.661		LON W 70 deg 16.3190 min 16.323																																																																													
<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 155902		DPH, m		LAT N 42 deg 10.6242 min 10.624		LON W 70 deg 16.388 min 16.392 3876																																																																													
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL		DPH, m		LAT N 42 deg min		LON W 70 deg min																																																																													
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 143 19 55 02																																																																																	
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;																																																																																					
DPH TO SED SURF IN GRAB, cm RIGHT 0.5, LEFT 1		SED VOL IN GRAB, liters RT 5.2 + LFT 4.9 = 10.1		SAMPLES / DATA COLLECTED																																																																																	
				<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 STILLs <input checked="" type="checkbox"/> NO INVERTS PRESENT																																																																																	
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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 4631

SBNMS Site S12, CONSEC STA 54

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 23		JD LOCAL 143	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: May 18, 2017 2002 EDT = 0002 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 23		JD UTC 143	VIDEO FWD UPPER CAMERA FILE 1883		
MONTH YEAR: MAY 2017					VIDEO FWD LOWER CAMERA FILE 3964		
LOCAL TIME: EDT							
USGS STA 4632		SBNMS SITE 513		CONSECUTIVE STA 55		QUAD 2	dep 314
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 161736	DPH, m 23	LAT N 42 deg 10.473 min	LON W 70 deg 18.3281 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 161838	DPH, m	LAT N 42 deg 10.4752 min	LON W 70 deg 18.3511 min		
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 161922	DPH, m	LAT N 42 deg 10.4752 min	LON W 70 deg 18.3694 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 162342	DPH, m	LAT N 42 deg 10.4693 min	LON W 70 deg 18.476 min		
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL	DPH, m	LAT N 42 deg min	LON W 70 deg min		
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 143 20 19 22			
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;							
DPH TO SED SURF IN GRAB, cm RIGHT 9 LEFT 9.5		SED VOL IN GRAB, liters RT 1.5 + LFT 1.3 = 2.8		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 checked="" type="checkbox"/> NO INVERTS PRESENT			
				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 checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded	
brachiopod		monkfish		squid		<input checked="" 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	
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						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 "many"				sand lance in sed sample <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N	
haddock		sea stars				SL size: <input type="checkbox"/> sm <input type="checkbox"/> med <input type="checkbox"/> lg	
herring						SL nos:	
		silver hake		shells/fragments			

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 4632
 SBNMS Site 513, CONSEC STA 55

CRUISE: USGS AUK2017030		MONTH - DAY LOCAL MAY - 23		JD LOCAL 143		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: May 18, 2017 2002 EDT = 0002 UTC																																																																													
LOCATION: STELLWAGEN BANK NMS		MONTH - DAY UTC MAY - 23		JD UTC 143		VIDEO FWD UPPER CAMERA		FILE no video																																																																													
MONTH YEAR: MAY 2017						VIDEO FWD LOWER CAMERA		FILE 3965																																																																													
LOCAL TIME: EDT																																																																																					
USGS STA 4633		SBNMS SITE 514		CONSECUTIVE STA 56		QUAD 12		clip 315																																																																													
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START <input checked="" type="checkbox"/> WATER COLUMN	HH MM SS LOCAL 163930		DPH, m 29		LAT N 10.2784 42 deg 10.279 min		LON W 20.2893 70 deg 20.297 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 164110		DPH, m		LAT N 10.2791 42 deg 10.279 min		LON W 20.3281 70 deg 20.334 min																																																																													
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 164156		DPH, m		LAT N 10.2804 42 deg 10.280 min		LON W 20.3431 70 deg 20.349 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 164632		DPH, m		LAT N 10.271 42 deg 10.271 min		LON W 20.442 70 deg 20.442 min																																																																													
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END	HH MM SS LOCAL		DPH, m		LAT N .2711 42 deg min		LON W 70 deg min																																																																													
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 143 20 41 56																																																																																	
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-tripped; <input type="checkbox"/> no smpl attempted; <input type="checkbox"/> jaws partly open; <input type="checkbox"/> washout; <input type="checkbox"/> refusal; <input type="checkbox"/> too gravelly/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;																																																																																					
DPH TO SED SURF IN GRAB, cm RIGHT 1 LEFT 1		SED VOL IN GRAB, liters RT 4.9 + LFT 4.9 = 9.8		SAMPLES / DATA COLLECTED																																																																																	
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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 4633

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