

Auk 2017 009

STA 4565-4577

CRUISE: USGS AUK2017009		MONTH DAY LOCAL JAN - FEB		JD LOCAL	<input type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Jan 30, 2017 1656 EST = 2156 UTC
LOCATION: STELLWAGEN BANK NMS		MONTH DAY UTC JAN - FEB		JD UTC	VIDEO FWD UPPER CAMERA FILE VIDEO FWD LOWER CAMERA FILE	
MONTH YEAR: JAN - FEB 2017						
LOCAL TIME: EST						
USGS STA		SBNMS SITE		CONSEC. STA		QUAD
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START / <input type="checkbox"/> SMPL 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"/> 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"/> VIDEO END / <input type="checkbox"/> SMPL ATTEMPT	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		
<input type="checkbox"/> NO SEDIMENT SAMPLE: <input type="checkbox"/> pre-ripped; <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	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 type="checkbox"/> <input type="checkbox"/> NO INVERTS PRESENT	
				SEABED DESCRIPTION		
alt epifauna	herring eggs	skate	storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N			
Boltenia tunic.	lobster	Suberites spg	crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded			
brachiopod	monkfish	squid	<input type="checkbox"/> straight <input type="checkbox"/> multi-rippled			
bushy bry/hyd	moon snail		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			
cod	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N			
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				
NOTES:						

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 _____

NOTE: LAT/LON coordinates located below those
entered at sea are converted values
obtained from the navigation GPS file.

CRUISE: USGS AUK2017009		MONTH DAY LOCAL <u>JAN - FEB 30</u>		JD LOCAL <u>30</u>	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Jan 30, 2017 1656 EST = 2156 UTC
LOCATION: STELLWAGEN BANK NMS		MONTH DAY UTC <u>JAN - FEB 30</u>		JD UTC <u>30</u>	VIDEO FWD UPPER CAMERA FILE <u>6347</u>	
MONTH YEAR: JAN - FEB 2017					VIDEO FWD LOWER CAMERA FILE <u>2862</u>	
LOCAL TIME: EST						
USGS STA <u>4565</u>		SBNMS SITE <u>LSB8</u>		CONSEC. STA <u>1</u>	QUAD <u>2</u>	<u>OD 226</u>
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <u>091732</u>	DPH, m <u>63</u>	LAT N 42 deg <u>8.570</u> min <u>8.5747</u>	LON W 70 deg <u>23.882</u> min <u>23.8827</u>	
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL <u>092050</u>	DPH, m	LAT N 42 deg <u>8.513</u> min <u>8.5146</u>	LON W 70 deg <u>23.876</u> min <u>23.8775</u>	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO END / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <u>092150</u>	DPH, m	LAT N 42 deg <u>8.498</u> min <u>8.5003</u>	LON W 70 deg <u>23.869</u> min <u>23.8705</u>	
UTC = EDT + 4 HRS, EST <u>5 HRS</u>		STATION DATE AND TIME, UTC	DDD : HH : MM : SS <u>030 : 14 : 20 : 50</u>			
<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 <u>0</u> LEFT <u>0</u>		SED VOL IN GRAB, liters RT <u>5.38</u> + LFT <u>5.38</u> = <u>10.8</u>		SAMPLES / DATA COLLECTED		
<u>full bucket</u>				<input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILLs <input type="checkbox"/> NO INVERTS PRESENT		
att 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.	grvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N			
cod	ocean pout	yellow encr. spg	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N			
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 checked="" 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	<u>✓ burrows</u>	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 type="checkbox"/> N			
herring			SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg			
	silver hake	shells/fragments	SL nos:			
NOTES:						

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 4565

CRUISE: USGS AUK2017009		MONTH DAY LOCAL JAN - FEB 30 30		JD LOCAL 30	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Jan 30, 2017 1656 EST = 2156 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH DAY UTC JAN - FEB 30 30		JD UTC 30	VIDEO FWD UPPER CAMERA FILE NO VIDEO		
MONTH YEAR: JAN - FEB 2017					VIDEO FWD LOWER CAMERA FILE 2863		
LOCAL TIME: EST							
USGS STA 4566		SBNMS SITE L5B7		CONSEC. STA 2		QUAD 2	00 227
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 093756	DPH, m 64	LAT N 42 deg 8.013 min 8.0171		LON W 70 deg 23.545 min 23.5466	
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 094010	DPH, m	LAT N 42 deg 07.9806 min 7.979		LON W 70 deg 23.538 min 23.5377	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO END / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 094102	DPH, m	LAT N 42 deg 7.966 min 7.9682		LON W 70 deg 23.536 min 23.5361	
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 030 14 40 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 gravely/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;							
DPH TO SED SURF IN GRAB, cm RIGHT 0, LEFT 0		SED VOL IN GRAB, liters RT 5.38 + LFT 5.38 = 10.8		SAMPLES / DATA COLLECTED			
full bucket				<input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILLs <input type="checkbox"/> NO INVERTS PRESENT			
att 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.	grvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N				
cod	ocean pout	yellow encr. spg	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N				
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 checked="" type="checkbox"/> Y, <input type="checkbox"/> N				
Didemnum cols			trawled/dredged shell frags <input type="checkbox"/> Y, <input type="checkbox"/> N				
dogfish		✓ burrows	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 type="checkbox"/> N not				
herring			SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg				
	silver hake	shells/fragments	SL nos:				
NOTES:							

AREA OF VAN VEEN GRAB = 0.1 SQ M; MAX DEPTH = 15 CM; VOLUME = 10.8 LITERS
 DISTANCE BETWEEN PARALLEL LASERS = 20 CM

CONSEC STA

CRUISE: USGS AUK2017009		MONTH DAY LOCAL <u>JAN - FEB 30</u>		JD LOCAL 30	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Jan 30, 2017 1656 EST = 2156 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH DAY UTC <u>JAN - FEB 30</u>		JD UTC 30	VIDEO FWD UPPER CAMERA FILE <u>6350</u>																																																																																																	
MONTH YEAR: JAN - FEB 2017					VIDEO FWD LOWER CAMERA FILE <u>2865</u>																																																																																																	
LOCAL TIME: EST																																																																																																						
USGS STA <u>4568</u>		SBNMS SITE <u>LSB17</u>		CONSEC. STA <u>4</u>		QUAD <u>2</u>	<u>09 229</u>																																																																																															
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <u>102534</u>	DPH, m <u>30</u>	LAT N 42 deg <u>9.154</u> <u>9.1579</u> min	LON W 70 deg <u>20.0723</u> <u>20.073</u> min																																																																																																	
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL <u>102656</u>	DPH, m	LAT N 42 deg <u>9.137</u> <u>9.1394</u> min	LON W 70 deg <u>20.075</u> <u>20.0753</u> min																																																																																																	
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <u>102820</u>	DPH, m	LAT N 42 deg <u>9.122</u> <u>9.1231</u> min	LON W 70 deg <u>20.080</u> <u>20.0790</u> min																																																																																																	
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS <u>030 : 15 26 56</u>																																																																																																		
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DPH TO SED SURF IN GRAB, cm RIGHT <u>5.5</u> LEFT <u>5.5</u>		SED VOL IN GRAB, liters RT <u>2.92</u> + LFT <u>2.92</u> = <u>5.8</u>		SAMPLES / DATA COLLECTED																																																																																																		
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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>alt 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 type="checkbox"/> sharp <input checked="" type="checkbox"/> rounded</td> </tr> <tr> <td>brachiopod</td> <td>monkfish</td> <td>squid</td> <td colspan="2"><input type="checkbox"/> straight <input type="checkbox"/> multi-rippled</td> </tr> <tr> <td>bushy bry/hyd</td> <td>moon snail</td> <td></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>tunicate, B pilu.</td> <td colspan="2">small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cod</td> <td>ocean pout</td> <td>yellow encr. spg</td> <td colspan="2">sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>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></td> <td colspan="2">mud <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>dk yellow spg</td> <td><input checked="" type="checkbox"/> sand dollars <u>ub</u></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><input checked="" type="checkbox"/> small <u>burrr anemns</u></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		alt 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		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		cod	ocean pout	yellow encr. spg	sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N		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 <u>ub</u>		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		<input checked="" type="checkbox"/> small <u>burrr anemns</u>	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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AREA OF VAN VEEN GRAB = 0.1 SQ M; MAX DEPTH = 15 CM; VOLUME = 10.8 LITERS
 DISTANCE BETWEEN PARALLEL LASERS = 20 CM

CRUISE: USGS AUK2017009		MONTH DAY LOCAL JAN - FEB 30		JD LOCAL 30		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: Jan 30, 2017 1656 EST = 2156 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH DAY UTC JAN - FEB 30		JD UTC 30		VIDEO FWD UPPER CAMERA		FILE 6351																																																																																																
MONTH YEAR: JAN - FEB 2017						VIDEO FWD LOWER CAMERA		FILE 2866																																																																																																
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USGS STA 4569		SBNMS SITE LSB16		CONSEC. STA 5		QUAD 2		230																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 10 40 54		DPH, m 56		LAT N 42 deg 8.618 min		LON W 70 deg 20.060 min																																																																																																
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 10 42 58		DPH, m		LAT N 42 deg 8.595 min		LON W 70 deg 20.064 min																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO END / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 10 44 22		DPH, m		LAT N 42 deg 8.581 min		LON W 70 deg 20.064 min																																																																																																
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DPH TO SED SURF IN GRAB, cm		SED VOL IN GRAB, liters		SAMPLES / DATA COLLECTED																																																																																																				
RIGHT 7 LEFT 1.5		RT 2.1 + LFT 4.69 = 6.7		<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 type="checkbox"/> NO INVERTS PRESENT																																																																																																				
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CRUISE: USGS AUK2017009		MONTH DAY LOCAL JAN FEB 30		JD LOCAL 30	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Jan 30, 2017 1656 EST = 2156 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH DAY UTC JAN FEB 30		JD UTC 30	VIDEO FWD UPPER CAMERA FILE 6352																																																																																																	
MONTH YEAR: JAN - FEB 2017					VIDEO FWD LOWER CAMERA FILE 2867																																																																																																	
LOCAL TIME: EST																																																																																																						
USGS STA 4570		SBNMS SITE LSB15		CONSEC. STA 6		QUAD 2	0D 231																																																																																															
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 10 58 10	DPH, m 58	LAT N 42 deg 8.195 min 8.1972	LON W 70 deg 20.3896 min 20.388																																																																																																	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 11 00 24	DPH, m	LAT N 42 deg 8.169 min 8.1703	LON W 70 deg 20.382 min 20.3822																																																																																																	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO END / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 11 02 08	DPH, m	LAT N 42 deg 8.144 min 8.1454	LON W 70 deg 20.380 min 20.3802																																																																																																	
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DPH TO SED SURF IN GRAB, cm RIGHT 2.5 LEFT full		SED VOL IN GRAB, liters RT 4.24 + LFT 5.38 = 9.6		SAMPLES / DATA COLLECTED																																																																																																		
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LOCATION: STELLWAGEN BANK NMS		MONTH DAY UTC JAN - FEB 30		JD UTC 30		VIDEO FWD UPPER CAMERA FILE 6353																																																																																																		
MONTH YEAR: JAN - FEB 2017						VIDEO FWD LOWER CAMERA FILE 2868																																																																																																		
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USGS STA 4571		SBNMS SITE LSB14		CONSEC. STA 7		QUAD 2		0232																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 11 14 20	DPH, m 61	LAT N 42 deg 7.836 min 7.8386	LON W 70 deg 20.166 min 20.1664																																																																																																			
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<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO END / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 11 19 10	DPH, m	LAT N 42 deg 7.764 min 7.7644	LON W 70 deg 20.180 min 20.1800																																																																																																			
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algae</td> <td><input type="checkbox"/> red encr. spg</td> <td></td> <td colspan="2">gravel pavement <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td><input type="checkbox"/> cunner</td> <td><input type="checkbox"/> red hake</td> <td></td> <td colspan="2">boulders <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td><input type="checkbox"/> dk yellow spg</td> <td><input type="checkbox"/> sand dollars</td> <td></td> <td colspan="2">mud <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td><input type="checkbox"/> 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><input type="checkbox"/> dogfish</td> <td></td> <td></td> <td colspan="2">trawl/dredge marks <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td><input type="checkbox"/> finger spg</td> <td><input 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><input type="checkbox"/> 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><input type="checkbox"/> haddock</td> <td><input type="checkbox"/> sea stars</td> <td></td> <td colspan="2">sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N 158</td> </tr> <tr> <td><input type="checkbox"/> 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><input checked="" type="checkbox"/> silver hake</td> <td><input type="checkbox"/> shells/fragments</td> <td colspan="2">SL nos:</td> </tr> </tbody> </table>													SEABED DESCRIPTION		<input 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type="checkbox"/> finger spg	<input type="checkbox"/> scallops		sand lance in water column <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N		<input type="checkbox"/> flounder	<input checked="" type="checkbox"/> sculpin		sand lance on/in substrate <input type="checkbox"/> Y, <input checked="" type="checkbox"/> N		<input type="checkbox"/> haddock	<input type="checkbox"/> sea stars		sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N 158		<input type="checkbox"/> herring			SL size: <input type="checkbox"/> sml <input type="checkbox"/> med <input type="checkbox"/> lg			<input checked="" type="checkbox"/> silver hake	<input type="checkbox"/> shells/fragments	SL nos:	
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 DISTANCE BETWEEN PARALLEL LASERS = 20 CM

USGS STATION

4571

LSB14

7

CRUISE: USGS AUK2017009		MONTH DAY LOCAL JAN - FEB 30		JD LOCAL 30	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Jan 30, 2017 1656 EST = 2156 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH DAY UTC JAN - FEB 30		JD UTC 30	VIDEO FWD UPPER CAMERA		FILE 6354																																																																																															
MONTH YEAR: JAN - FEB 2017					VIDEO FWD LOWER CAMERA		FILE 2869																																																																																															
LOCAL TIME: EST																																																																																																						
USGS STA 4572		SBNMS SITE 533		CONSEC. STA 8		QUAD 2 ⁰¹ 233																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 12 13 34	DPH, m 31	LAT N 42 deg 11.731 min 11.7341		LON W 70 deg 13.745 min 13.7487																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 12 17 10	DPH, m	LATN 42 deg 11.700 min 11.7019		LON W 70 deg 13.718 min 13.7193																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO END / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 12 17 36	DPH, m	LAT N 42 deg 11.697 min 11.6976		LON W 70 deg 13.716 min 13.7168																																																																																																
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USGS STATION 4572

SBNMS Site 533, CONSEC STA 8

CRUISE: USGS AUK2017009		MONTH DAY LOCAL JAN - FEB 30		JD LOCAL 30		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: Jan 30, 2017 1656 EST = 2156 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH DAY UTC JAN - FEB 30		JD UTC 30		VIDEO FWD UPPER CAMERA		FILE 6355																																																																																																
MONTH YEAR: JAN - FEB 2017						VIDEO FWD LOWER CAMERA		FILE 2870																																																																																																
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USGS STA 4573		SBNMS SITE 54		CONSEC. STA 9		QUAD 2		00 234																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 123902		DPH, m 29		LAT N 11.6777 42 deg 11.676 min		LON W 14.388 70 deg 14.3921 min																																																																																																
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 124058		DPH, m		LATN 11.662 42 deg 11.6630 min		LON W 14.371 70 deg 14.3740 min																																																																																																
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO END / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 124432		DPH, m		LAT N 11.640 42 deg 11.6405 min		LON W 14.336 70 deg 14.3381 min																																																																																																
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RIGHT 1.0 LEFT 2.5		RT 4.92 LFT 4.24 9.2		<input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPGRAST <input checked="" type="checkbox"/> GPS NAV FILE <input checked="" type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILLs <input type="checkbox"/> <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

USGS STATION 4573

SBNMS Site 54 CONSEC STA 10

CRUISE: USGS AUK2017009		MONTH DAY LOCAL JAN - FEB 30		JD LOCAL 30		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: Jan 30, 2017 1656 EST = 2156 UTC																																																																																																
LOCATION: STELLWAGEN BANK NMS		MONTH DAY UTC JAN - FEB 30		JD UTC 30		VIDEO FWD UPPER CAMERA		FILE _____																																																																																																
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USGS STA 4574PT			SBNMS SITE 53			CONSEC. STA 11			QUAD 2																																																																																															
<input checked="" type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START / PT start	HH MM SS LOCAL 134804		DPH, m 25		LAT N 11.559 42 deg 11.5552 min		LON W 16.381 70 deg 16.3747 min																																																																																																
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SMPL ATTEMPT																																																																																																							
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 135240		DPH, m		LATN 11.677 42 deg 11.6676 min		LON W 16.403 70 deg 16.3918 min																																																																																																
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END / PT end	HH MM SS LOCAL 135740		DPH, m		LAT N 11.679 42 deg 11.6802 min		LON W 16.501 70 deg 16.4950 min																																																																																																
<input type="checkbox"/> SMPL ATTEMPT																																																																																																								
UTC = EDT + 4 HRS, EST + 5 HRS			STATION DATE AND TIME, UTC 030184804		DDD : HH : MM : SS																																																																																																			
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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

USGS STATION 4574PT

CRUISE: USGS AUK2017009		MONTH DAY LOCAL <u>JAN - FEB 30</u>		JD LOCAL <u>30</u>	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Jan 30, 2017 1656 EST = 2156 UTC
LOCATION: STELLWAGEN BANK NMS		MONTH DAY UTC <u>JAN - FEB 30</u>		JD UTC <u>30</u>	VIDEO FWD UPPER CAMERA FILE <u>6356</u>	
MONTH YEAR: JAN - FEB 2017					VIDEO FWD LOWER CAMERA FILE <u>2871</u>	
LOCAL TIME: EST						
USGS STA <u>4574</u>		SBNMS SITE <u>53</u>		CONSEC. STA <u>12</u>		QUAD <u>2</u> <u>235</u>
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <u>141034</u>	DPH, m <u>25</u>	LAT N 42 deg <u>11.530</u> min <u>11.5309</u>	LON W 70 deg <u>16.254</u> min <u>16.2619</u>	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL <u>141246</u>	DPH, m	LAT N 42 deg <u>11.518</u> min <u>11.5188</u>	LON W 70 deg <u>16.199</u> min <u>16.2055</u>	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO END / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <u>141516</u>	DPH, m	LAT N 42 deg <u>11.501</u> min <u>11.5018</u>	LON W 70 deg <u>16.137</u> min <u>16.1424</u>	
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC	DDD : HH : MM : SS <u>030 19 12 46</u>			
<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 gravely/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;						
DPH TO SED SURF IN GRAB, cm RIGHT <u>2</u> LEFT <u>2</u>		SED VOL IN GRAB, liters RT <u>4.47</u> LFT <u>4.47</u> = <u>8.9</u>		SAMPLES / DATA COLLECTED		
<u>same</u>				<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 STILLs <input 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 type="checkbox"/> sharp <input type="checkbox"/> rounded	
bushy bry/hyd		moon snail			<input type="checkbox"/> straight <input checked="" type="checkbox"/> multi-rippled	
cancer crab		mussels		tunicate, B pilu.	gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N	
cod		ocean pout		yellow encr. spg	small ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N	
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 <u>nk</u>			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"/> sm <input type="checkbox"/> med <input type="checkbox"/> lg	
		silver hake		shells/fragments	SL nos:	
NOTES:						

AREA OF VAN VEEN GRAB = 0.1 SQ M; MAX DEPTH = 15 CM; VOLUME = 10.8 LITERS
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USGS STATION 4574

CRUISE: USGS AUK2017009		MONTH DAY LOCAL <u>JAN - FEB 30</u>		JD LOCAL <u>30</u>	<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT	Sunset: Jan 30, 2017 1656 EST = 2156 UTC																																																																					
LOCATION: STELLWAGEN BANK NMS		MONTH DAY UTC <u>JAN - FEB 30</u>		JD UTC <u>30</u>	VIDEO FWD UPPER CAMERA FILE <u>6357</u>																																																																						
MONTH YEAR: JAN - FEB 2017					VIDEO FWD LOWER CAMERA FILE <u>2872</u>																																																																						
LOCAL TIME: EST																																																																											
USGS STA <u>4575</u>		SBNMS SITE <u>S13</u>		CONSEC. STA <u>14</u>		QUAD <u>2</u> ^{PD} <u>236</u>																																																																					
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <u>144458</u>	DPH, m <u>25</u>	LAT N <u>10.3606</u> 42 deg <u>10.357</u> min	LON W <u>18.1493</u> 70 deg <u>18.142</u> min																																																																						
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL <u>144652</u>	DPH, m	LATN <u>10.331</u> 42 deg <u>10.3323</u> min	LON W <u>18.098</u> 70 deg <u>18.1046</u> min																																																																						
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO END / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL <u>144912</u>	DPH, m	LAT N <u>10.313</u> 42 deg <u>10.3135</u> min	LON W <u>18.037</u> 70 deg <u>18.0421</u> min																																																																						
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS <u>030 19 46 52</u>																																																																							
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<u>Some</u>				<input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPCAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILLs <input type="checkbox"/> NO INVERTS PRESENT																																																																							
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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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USGS STATION 4575

CRUISE: USGS AUK2017009		MONTH DAY LOCAL JAN - FEB 30		JD LOCAL 30		<input type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: Jan 30, 2017 1656 EST = 2156 UTC																																																																																																																			
LOCATION: STELLWAGEN BANK NMS		MONTH DAY UTC JAN - FEB 30		JD UTC 30		VIDEO FWD UPPER CAMERA		FILE _____																																																																																																																			
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USGS STA 4575 PT		SBNMS SITE 513		CONSEC. STA 14		QUAD 2																																																																																																																					
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START / PT start <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 15 01 20		DPH, m		LAT N 42 deg 10.2330 min		LON W 70 deg 17.6690 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 type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END / PT end <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL not recorded		DPH, m		LAT N 42 deg not recorded min		LON W 70 deg not recorded min																																																																																																																			
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USGS STATION 4575 PT

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USGS STA 4576PT4			SBNMS SITE 514			CONSEC. STA 15		QUAD 2																																																																																																																			
<input checked="" type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO START / PT start <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 153338		DPH, m 30		LAT N 10.277 42 deg 10.2705 min		LON W 20.200 70 deg 20.2035 min																																																																																																																			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 153758		DPH, m		LAT N 10.407 42 deg 10.4031 min		LON W 20.157 70 deg 20.1607 min																																																																																																																			
<input type="checkbox"/> STA LOC	<input type="checkbox"/> VIDEO END / PT end <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 154028		DPH, m		LAT N 10.473 42 deg 10.4685 min		LON W 20.085 70 deg 20.0965 min																																																																																																																			
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<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></td> </tr> <tr> <td>Boltenia tunic.</td> <td></td> <td>lobster</td> <td></td> <td>Suberites spg</td> <td>storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>brachiopod</td> <td></td> <td>monkfish</td> <td></td> <td>squid</td> <td>crests: <input type="checkbox"/> sharp <input type="checkbox"/> rounded</td> </tr> <tr> <td>bushy bry/hyd</td> <td></td> <td>moon snail</td> <td></td> <td></td> <td><input type="checkbox"/> straight <input type="checkbox"/> multi-rippled</td> </tr> <tr> <td>cancer crab</td> <td></td> <td>mussels</td> <td></td> <td>tunicate, B pilu.</td> <td>gvl in ripple troughs <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cod</td> <td></td> <td>ocean pout</td> <td></td> <td>yellow encr. spg</td> <td>small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>cod, juvenile</td> <td></td> <td></td> <td></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></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></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></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></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></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></td> <td>trawl/dredge marks <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>finger spg</td> <td></td> <td>scallops</td> <td></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></td> <td>sculpin</td> <td></td> <td></td> <td>sand lance on/in substrate <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>haddock</td> <td></td> <td>sea stars</td> <td></td> <td></td> <td>sand lance in sed sample <input type="checkbox"/> Y, <input type="checkbox"/> N</td> </tr> <tr> <td>herring</td> <td></td> <td></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></td> <td>silver hake</td> <td></td> <td>shells/fragments</td> <td>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	cod		ocean pout		yellow encr. spg	small ripples <input type="checkbox"/> Y, <input type="checkbox"/> N	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 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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NOTES: PLANKTON TOW, J. LLOP12, W/H 1																																																																																																																											

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 4576PT4

CRUISE: USGS AUK2017009		MONTH DAY LOCAL JAN - FEB 30		JD LOCAL 30		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: Jan 30, 2017 1656 EST = 2156 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH DAY UTC JAN - FEB 30		JD UTC 30		VIDEO FWD UPPER CAMERA		FILE 6358	
MONTH YEAR: JAN - FEB 2017						VIDEO FWD LOWER CAMERA		FILE 2873	
LOCAL TIME: EST									
USGS STA 4576		SBNMS SITE 514		CONSEC. STA 16		QUAD 2		DD 237	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 155324		DPH, m 29		LAT N 10.219 42 deg 10.2210 min		LON W 20.198 70 deg 20.2046 min	
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 155522		DPH, m		LATN 10.218 42 deg 10.2187 min		LON W 20.149 70 deg 20.1554 min	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO END / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 155710		DPH, m		LAT N 10.219 42 deg 10.2189 min		LON W 20.110 70 deg 20.1136 min	
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 030 20 55 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 gravely/shelly; <input type="checkbox"/> smpl too small; <input type="checkbox"/> grvl in jaws;									
DPH TO SED SURF IN GRAB, cm RIGHT 0.5 LEFT 0.5		SED VOL IN GRAB, liters RT 5.15 + LFT 5.15 = 10.3		SAMPLES / DATA COLLECTED					
✓ same				<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 STILLs <input type="checkbox"/> NO INVERTS PRESENT					
						SEABED DESCRIPTION			
alt epifauna		herring eggs		skate		storm sand ripples <input type="checkbox"/> Y, <input type="checkbox"/> N			
Boltenia tunic.		lobster		Suberites spg		crests: <input 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				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			
cod		ocean pout		yellow encr. spg		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N			
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					
NOTES:									

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 4576

CRUISE: USGS AUK2017009		MONTH DAY LOCAL JAN - FEB 30		JD LOCAL 30		<input checked="" type="checkbox"/> DAY <input type="checkbox"/> NIGHT		Sunset: Jan 30, 2017 1656 EST = 2156 UTC	
LOCATION: STELLWAGEN BANK NMS		MONTH DAY UTC JAN - FEB 30		JD UTC 30		VIDEO FWD UPPER CAMERA		FILE 6359	
MONTH YEAR: JAN - FEB 2017						VIDEO FWD LOWER CAMERA		FILE 2874	
LOCAL TIME: EST									
USGS STA 4577		SBNMS SITE 526		CONSEC. STA 17		QUAD 2		OD 238	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO START / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 161714		DPH, m 30		LAT N 42 deg 11.426 min		LON W 70 deg 19.0199 min	
<input checked="" type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> SAMPLE ATTEMPT	HH MM SS LOCAL 161900		DPH, m		LAT N 42 deg 11.425 min		LON W 70 deg 18.972 min	
<input type="checkbox"/> STA LOC	<input checked="" type="checkbox"/> VIDEO END / <input type="checkbox"/> SMPL ATTEMPT	HH MM SS LOCAL 162546		DPH, m		LAT N 42 deg 11.416 min		LON W 70 deg 18.811 min	
UTC = EDT + 4 HRS, EST + 5 HRS		STATION DATE AND TIME, UTC		DDD : HH : MM : SS 30 21 19 00					
<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 6, LEFT 8		RT 2.71 + LFT 1.9 = 4.6		<input checked="" type="checkbox"/> SEDIMENT <input checked="" type="checkbox"/> CTD UPGRAST <input checked="" type="checkbox"/> GPS NAV FILE <input type="checkbox"/> SAND LANCE <input type="checkbox"/> INVERTS <input checked="" type="checkbox"/> GRAB STILLs <input type="checkbox"/> NO INVERTS PRESENT					
r-cg/pc G → c-cg S									
				SEABED DESCRIPTION					
att epifauna		herring eggs		skate		storm sand ripples <input checked="" type="checkbox"/> Y, <input type="checkbox"/> N			
Botlenia 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				grvl 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			
cod		ocean pout		yellow encr. spg		sand, unrippled <input type="checkbox"/> Y, <input type="checkbox"/> N			
cod, juvenile						sand partial veneer on gravel <input checked="" 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 checked="" type="checkbox"/> Y, <input 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"/> sm <input type="checkbox"/> med <input type="checkbox"/> lg			
herring						SL nos:			
		silver hake		shells/fragments					

NOTES: gnl w/ storm rips, but mostly gnl
 good video of 1 sl swimming out of sand and back into
 sand at gnl smpl site (0300 min)

AREA OF VAN VEEN GRAB = 0.1 SQ M; MAX DEPTH = 15 CM; VOLUME = 10.8 LITERS
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USGS STATION 4577