

STA 4203, 4206, 4208-4245
 4417-4420
AUK 2014066
 STA 4203-4245
 4417-4420

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC)	DATE (UTC) NOV , 2014	NAV FILE NO.	GO PRO VIDEO NO.
USGS STA	SBNMS SITE	SBNMS STA	CONSEC. STATION	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD
VIDEO ON BOTTOM		UTC HH MM SS	DPH, m	Lat N 42 deg min	Lon W 70 deg min
SAMPLE TAKEN		UTC HH MM SS	DPH, m	Lat N 42 deg min	Lon W 70 deg min
VIDEO OFF BOTTOM		UTC HH MM SS	DPH, m	Lat N 42 deg min	Lon W 70 deg min

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

				SAMPLE TYPES	
				sed grab	temp logr
				sand lance	ctd

	att epifauna	herring eggs	skate	SEABED DESCRIPTION	
	Boltenia tunic.	lobster	Suberites spg	storm ripples	y, n
	brachiopod	moon snail	squid	crests: sharp	rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel	y, n
	cod	red encr. spg		gravel pavement	y, n
	cunner	red hake			
	dk yellow spg	sand dollars		sand lance in water column	y, n
	Didemnum cols	sand lance adults		sand lance in substrate	y, n
	dogfish	sand lance juvs		sand lance in sed sample	y, n
	Eucratea loricata	scallops		size: sml med lg	
	Filograna implexa	sculpin		nos:	
	finger spg	sea stars			
	flounder	shells & fragments		trawl/dredge marks	y, n
	haddock	silver hake		ambient light	y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset TidbiT v2)

Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE =
 DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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EST TIME = UTC TIME - 5 HRS

CTD PROFILE YEAR IS 2020, BUT
SHOULD BE 2014

NOTE: NOV 10 (UTC) = JD 314 UTC (not 315)
NOV 11 (UTC) = JD 315 UTC (not 316)
Corrected on individual pages

CRUISE: USGS AUK2014066 new no. SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 103	
USGS STA 4417 4202	SBNMS SITE N1	SBNMS STA 315 EST	CONSEC. STATION 1	DAY - NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 7	
VIDEO ON BOTTOM		UTC HH MM SS 171942	DPH, m	Lat N ✓ 42 deg 25.284 min	Lon W ✓ 70 deg 26.945 min	
SAMPLE TAKEN		UTC HH MM SS (172055)	DPH, m 35	Lat N ✓ 42 deg 25.284 min	Lon W ✓ 70 deg 26.944 min	
VIDEO OFF BOTTOM		UTC HH MM SS 172055	DPH, m	Lat N 42 deg	Lon W 70 deg	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
STA LOC 315:17:20:55 UTC				SAMPLE TYPES sed grab temp logr sand lance ctd		
att epifauna		herring eggs		SEABED DESCRIPTION		
Boltenia tunic.		lobster		storm ripples		
brachiopod		moon snail		crests: sharp rounded		
bushy bry/hyd		mussels		gvl in ripple troughs both y n		
juvenile cod		ocean pout		small ripples y n		
cancer crab		Polymastia spg		sand partial veneer on gravel y n		
cod		red encr. spg		gravel pavement y n		
cunner		red hake				
dk yellow spg		sand dollars		sand lance in water column y n		
Didemnum cols		sand lance adults		sand lance in substrate y n		
dogfish		sand lance juvs		sand lance in sed sample y n		
Eucratea loricata		scallops		size: sml med lg		
Filograna implexa		sculpin		nos:		
finger spg		sea stars				
flounder		shells & fragments		trawl/dredge marks y n		
haddock		silver hake		ambient light y n		
Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)						
Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description ✓ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 1 USGS STATION 4202

✓ = lat long, etc. not accurate for north

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 104	
USGS STA 4203	SBNMS SITE N1	SBNMS STA	CONSEC. STATION 2	DAY-NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 7	
VIDEO ON BOTTOM		UTC HH MM SS 17 24 44	DPH, m	Lat N 42 deg 25.280 min	Lon W 70 deg 26.945 min	
SAMPLE TAKEN		UTC HH MM SS 17 25 51	DPH, m 35	Lat N 42 deg 25.282 min	Lon W 70 deg 26.949 min	
VIDEO OFF BOTTOM		UTC HH MM SS 17 25 51	DPH, m	Lat N 42 deg min	Lon W 70 deg min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
STA LOC		315:17:25:51 UTC			SAMPLE TYPES sed grab temp logr sand lance ctd	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples	y. n		
brachiopod	moon snail	squid	crests: sharp rounded	y. n		
bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs both	y. n		
juvenile cod	ocean pout	yellow encr. spg	small ripples	y. n		
cancer crab	Polymastia spg		sand partial veneer on gravel	y. n		
cod	red encr. spg		gravel pavement	y. n		
cunner	red hake					
dk yellow spg	sand dollars		sand lance in water column	y. (m)		
Didemnum cols	sand lance adults		sand lance in substrate	y. (n)		
dogfish	sand lance juvs		sand lance in sed sample	y. (n)		
Eucratea loricata	scallops		size: sml med lg			
Filograna implexa	sculpin		nos:			
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks	y. n		
haddock	silver hake		ambient light	y. n		
Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)						
Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 2 USGS STATION 4203

CRUISE: USGS AUK2014066 <i>new no.</i> SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. <i>105</i>	
USGS STA <i>441B</i> 4207	SBNMS SITE <i>N14</i>	SBNMS STA	CONSEC. STATION 3	DAY-NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 7	
VIDEO ON BOTTOM		DPH, m	Lat N 42 deg	Lon W 70 deg	NAV GPS	
SAMPLE TAKEN		DPH, m	Lat N 42 deg	Lon W 70 deg		
VIDEO OFF BOTTOM		DPH, m	Lat N 42 deg	Lon W 70 deg		
pre-tripped —; no smpl attempted —; jaws partly open ✓; washout —; refusal —; too gravelly/shelly —						
STA LOC	315:17:41:50 UTC				SAMPLE TYPES	
					sed grab temp logr sand lance <i>(ctd)</i>	
	att epifauna	herring eggs	skate	SEABED DESCRIPTION		
	Boltenia tunic.	lobster	Suberites spg	storm ripples	<i>(y)</i> n	
	brachiopod	moon snail	squid	crests: sharp	<i>(rounded)</i>	
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n	
	juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n	
	cancer crab	Polymastia spg		sand partial veneer on gravel	y, n	
	cod	red encr. spg		gravel pavement	y, n	
	cunner	red hake				
	dk yellow spg	sand dollars		sand lance in water column	y, <i>(n)</i>	
	Didemnum cols	sand lance adults		sand lance in substrate	y, <i>(n)</i>	
	dogfish	sand lance juvs		sand lance in sed sample	y, <i>(n)</i>	
	Eucratea loricata	scallops		size: sml med lg		
	Filograna implexa	sculpin		nos:		
	finger spg	sea stars				
	flounder	shells & fragments		trawl/dredge marks	y, n	
	haddock	silver hake		ambient light	y, n	
Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset TidbiT v2)						
Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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NO STA Sample

NO SMPL

CRUISE: USGS AUK2014066 <i>use no. SBNMS</i> Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 106	
USGS STA 4205 <i>4419</i>	SBNMS SITE N14	SBNMS STA	CONSEC. STATION 4	DAY-NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 7	
VIDEO ON BOTTOM		DPH, m	Lat N 42 deg 23.797 min	Lon W 70 deg 24.999 min		
SAMPLE TAKEN <i>174528</i>		DPH, m 30	Lat N 42 deg 23.798 min	Lon W 70 deg 24.998 min		
VIDEO OFF BOTTOM		DPH, m	Lat N 42 deg min	Lon W 70 deg min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
STA LOC 315:17:45:28 UTC				SAMPLE TYPES sed grab temp logr sand lance ctd		
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples	(y, n)		
brachiopod	moon snail	squid	crests: sharp	(rounded)		
bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n		
juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n		
cancer crab	Polymastia spg		sand partial veneer on gravel	y, n		
cod	red encr. spg		gravel pavement	y, n		
cunner	red hake					
dk yellow spg	sand dollars		sand lance in water column	y, (n)		
Didemnum cols	sand lance adults		sand lance in substrate	y, (n)		
dogfish	sand lance juvs		sand lance in sed sample	y, (n)		
Eucratea loricata	scallops		size: sml med lg			
Filograna implexa	sculpin		nos:			
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks	y, n		
haddock	silver hake		ambient light	y, n		
Bottom temp deg C ; Surface (-1 m) temp deg C ; Difference deg C ; (Onset Tidbit v2)						
Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 4 USGS STATION 4205

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 107	
USGS STA 4206	SBNMS SITE N12	SBNMS STA	CONSEC. STATION 5	DAY-NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 8	
VIDEO ON BOTTOM		UTC HH MM SS 17 59 03	DPH, m	Lat N ✓ 42 deg 22.901 min	Lon W ✓ 70 deg 22.594 min	
SAMPLE TAKEN		UTC HH MM SS (180033)	DPH, m 29	Lat N ✓ 42 deg 22.902 min	Lon W ✓ 70 deg 22.591 min	
VIDEO OFF BOTTOM		UTC HH MM SS 180033	DPH, m	Lat N 42 deg 22.902 min	Lon W 70 deg 22.591 min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
STA LOC 315:18:00:33 UTC				SAMPLE TYPES sed grab temp logr sand lance <u>ctd</u>		
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples	y, n	<u>(y, n)</u>	
brachiopod	moon snail	squid	crests: sharp	<u>rounded</u>		
bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n		
juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n		
cancer crab	Polymastia spg		sand partial veneer on gravel	y, n		
cod	red encr. spg		gravel pavement	y, n		
cunner	red hake					
dk yellow spg	✓ sand dollars		sand lance in water column	y, n	<u>(y, n)</u>	
Didemnum cols	sand lance adults		sand lance in substrate	y, n	<u>(y, n)</u>	
dogfish	sand lance juvs		sand lance in sed sample	y, n	<u>(y, n)</u>	
Eucratea loricata	scallops		size: sml med lg			
Filograna implexa	sculpin		nos:			
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks	y, n		
haddock	silver hake		ambient light	y, n		
Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)						
Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description ✓ = in photo	Filename Auk2014066_sta_img #
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NO STA
SAMPLE

NO SMPL

CRUISE: USGS AUK2014066 <i>new no.</i> SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 108
USGS STA 4420 4207	SBNMS SITE N12	SBNMS STA	CONSEC. STATION 6	DAY-NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 8
VIDEO ON BOTTOM		DPH, m	Lat N 42 deg 27.905 min	Lon W 70 deg 22.598 min	
SAMPLE TAKEN 180435		DPH, m 29	Lat N 42 deg 27.908 min	Lon W 70 deg 22.600 min	
VIDEO OFF BOTTOM		DPH, m	Lat N 42 deg	Lon W 70 deg	

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

STA LOC	315:18:04:35 UTC	SAMPLE TYPES sed grab temp logr sand lance ctd
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			SEABED DESCRIPTION
att epifauna	herring eggs	skate	
Boltenia tunic.	lobster	Suberites spg	storm ripples <i>low</i> (y) n
brachiopod	moon snail	squid	crests: sharp rounded
bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs y, n
juvenile cod	ocean pout	yellow encr. spg	small ripples y, n
cancer crab	Polymastia spg		sand partial veneer on gravel y, n
cod	red encr. spg		gravel pavement y, n
cunner	red hake		
dk yellow spg	sand dollars		sand lance in water column y, (n)
Didemnum cols	sand lance adults		sand lance in substrate y, (n)
dogfish	sand lance juvs		sand lance in sed sample y, (n)
Eucratea loricata	scallops <i>sm</i>		size: sml med lg
Filograna implexa	sculpin		nos:
finger spg	sea stars		
flounder	shells & fragments		trawl/dredge marks y, n
haddock	silver hake		ambient light y, n

Bottom temp deg C ; Surface (-1 m) temp deg C ; Difference deg C ; (Onset TidbiT v2)

Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 6 USGS STATION 4207

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 69
USGS STA 4208	SBNMS SITE N11	SBNMS STA	CONSEC. STATION 7	DAY-NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 8
VIDEO ON BOTTOM		UTC HH MM SS 181402	DPH, m	Lat N 42 deg 22.500 min	Lon W 70 deg 21.408 min
SAMPLE TAKEN		UTC HH MM SS 181515	DPH, m 30	Lat N 42 deg 22.498 min	Lon W 70 deg 21.408 min
VIDEO OFF BOTTOM		UTC HH MM SS 181515	DPH, m	Lat N 42 deg min	Lon W 70 deg min

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

STA LOC	315:18:15:15 UTC	SAMPLE TYPES
		sed grab temp logr
		sand lance ctd

	att epifauna	herring eggs	skate	SEABED DESCRIPTION
	Boltenia tunic.	lobster	Suberites spg	storm ripples y, n
	brachiopod	moon snail	squid	crests: sharp rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel y, n
	cod	red encr. spg		gravel pavement y, n
	cunner	red hake		
	dk yellow spg	sand dollars		sand lance in water column y, n
	Didemnum cols	sand lance adults		sand lance in substrate y, n
	dogfish	sand lance juvs		sand lance in sed sample y, n
	Eucratea loricata	scallops many sml		size: sml med lg
	Filograna implexa	sculpin		nos:
	finger spg	sea stars		
	flounder	shells & fragments		trawl/dredge marks y, n
	haddock	silver hake		ambient light y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)

Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 7 USGS STATION 4208

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 110	
USGS STA 4209	SBNMS SITE C4	SBNMS STA	CONSEC. STATION 8	DAY-NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5	
VIDEO ON BOTTOM		UTC HH MM SS 185317	DPH, m	Lat N 42 deg 15.759 min	Lon W 70 deg 16.592 min	
SAMPLE TAKEN		UTC HH MM SS 185424	DPH, m 30	Lat N 42 deg 15.761 min	Lon W 70 deg 16.591 min	
VIDEO OFF BOTTOM		UTC HH MM SS 185424	DPH, m	Lat N 42 deg min	Lon W 70 deg min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
STA LOC 315:18:54:24 UTC				SAMPLE TYPES sed grab temp logr sand lance <u>ctd</u>		
att epifauna		herring eggs		SEABED DESCRIPTION		
Boltenia tunic.		lobster		storm ripples <u>y</u> , n		
brachiopod		moon snail		crests: sharp <u>rounded</u>		
bushy bry/hyd		mussels		gvl in ripple troughs y, n		
juvenile cod		ocean pout		small ripples y, n		
cancer crab		Polymastia spg		sand partial veneer on gravel y, n		
cod		red encr. spg		gravel pavement y, n		
cunner		red hake				
dk yellow spg		sand dollars		sand lance in water column y, <u>(n)</u>		
Didemnum cols		sand lance adults		sand lance in substrate y, <u>(n)</u>		
dogfish		sand lance juvs		sand lance in sed sample y, <u>(n)</u>		
Eucratea loricata		scallops		size: sml med lg		
Filograna implexa ✓		sculpin		nos:		
finger spg		sea stars				
flounder		shells & fragments		trawl/dredge marks y, n		
haddock		silver hake		ambient light y, n		
Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)						
Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 8 USGS STATION 4209

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 111
USGS STA 4210	SBNMS SITE C4	SBNMS STA	CONSEC. STATION 9	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5
GPS		NAV			
VIDEO ON BOTTOM	UTC HH MM SS 190044	DPH, m	Lat N ✓ 42 deg 15.734 min	Lon W ✓ 70 deg 16.597 min	
SAMPLE TAKEN	UTC HH-MM SS (19 01 32)	DPH, m 30	Lat N ✓ 42 deg 15.739 min	Lon W ✓ 70 deg 16.593 min	
VIDEO OFF BOTTOM	UTC HH MM SS 190132	DPH, m	Lat N 42 deg 15 min	Lon W 70 deg 16 min	

no sample

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

STA LOC	315:19:01:32 UTC	SAMPLE TYPES
		sed grab temp logr
		sand lance <input checked="" type="checkbox"/> ctd

	att epifauna	herring eggs	skate	SEABED DESCRIPTION
	Boltenia tunic.	lobster	Suberites spg	storm ripples <input checked="" type="checkbox"/> y <input type="checkbox"/> n
	brachiopod	moon snail	squid	crests: sharp <input checked="" type="checkbox"/> rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs <input type="checkbox"/> y <input type="checkbox"/> n
	juvenile cod	ocean pout	yellow encr. spg	small ripples <input type="checkbox"/> y <input type="checkbox"/> n
	cancer crab	Polymastia spg		sand partial veneer on gravel <input type="checkbox"/> y <input type="checkbox"/> n
	cod	red encr. spg		gravel pavement <input type="checkbox"/> y <input type="checkbox"/> n
	cunner	red hake		
	dk yellow spg	sand dollars		sand lance in water column <input type="checkbox"/> y <input checked="" type="checkbox"/> n
	Didemnum cols	sand lance adults		sand lance in substrate <input type="checkbox"/> y <input checked="" type="checkbox"/> n
	dogfish	sand lance juvs		sand lance in sed sample <input type="checkbox"/> y <input type="checkbox"/> n
	Eucratea loricata	scallops		size: sml med lg
	Filograna implexa	sculpin		nos:
	finger spg	sea stars		
	flounder	shells & fragments		trawl/dredge marks <input type="checkbox"/> y <input type="checkbox"/> n
	haddock	silver hake		ambient light <input type="checkbox"/> y <input type="checkbox"/> n

Bottom temp deg C ; Surface (-1 m) temp deg C ; Difference deg C ; (Onset Tidbit v2)

Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
1						
2						
3						no sample
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5						
6						
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8						
9						
10						

HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)
SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 9 USGS STATION 4210

CRUISE: USGS AUK2014066 SBNMS Nov 2014 JD (UTC) 314 DATE (UTC) NOV 10, 2014 NAV FILE NO. GO PRO VIDEO NO. 112

USGS STA 4211 SBNMS SITE C4 SBNMS STA CONSEC. STATION 10 DAY-NIGHT

VIDEO START AT SURFACE UTC HH MM SS VIDEO END AT SURFACE UTC HH MM SS Sunset: Nov 10, 2014 1627 EST = 2127 UTC QUAD 5 NAV GPS

VIDEO ON BOTTOM UTC HH MM SS DPH, m Lat N 42 deg 15.738 min Lon W 70 deg 16.586 min

SAMPLE TAKEN UTC HH MM SS DPH, m Lat N 42 deg 15.740 min Lon W 70 deg 16.582 min

VIDEO OFF BOTTOM UTC HH MM SS DPH, m Lat N 42 deg 15.740 min Lon W 70 deg 16.582 min

no sample

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

STA LOC 315: 19:07:10 UTC SAMPLE TYPES sed grab temp logr sand lance ctd

	att epifauna	herring eggs	skate	SEABED DESCRIPTION
	Boltenia tunic.	lobster	Suberites spg	storm ripples y, n
	brachiopod	moon snail	squid	crests: sharp rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel y, n
	cod	red encr. spg		gravel pavement y, n
	cunner	red hake		
	dk yellow spg	sand dollars		sand lance in water column y, n
	Didemnum cols	sand lance adults		sand lance in substrate y, n
	dogfish	sand lance juvs		sand lance in sed sample y, n
	Eucratea loricata	scallops		size: sml med lg
	Filograna implexa	sculpin		nos:
	finger spg	sea stars		
	flounder	shells & fragments		trawl/dredge marks y, n
	haddock	silver hake		ambient light y, n

Bottom temp deg C Surface (-1 m) temp deg C Difference deg C (Onset Tidbit v2)

Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
1						
2						
3						NO SAMPLE
4						
5						
6						
7						
8						
9						
10						

HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 10 USGS STATION 4211

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 113	
USGS STA 4212	SBNMS SITE C6	SBNMS STA	CONSEC. STATION 11	DAY-NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5	
GPS		NAV		GPS		
VIDEO ON BOTTOM	UTC HH MM SS 19 22 34	DPH, m	Lat N 42 deg 13.683 min	Lon W 70 deg 16.405 min		
SAMPLE TAKEN	UTC HH MM SS 19 23 22	DPH, m 27	Lat N 42 deg 13.683 min	Lon W 70 deg 16.397 min		
VIDEO OFF BOTTOM	UTC HH-MM-SS 19 23 22	DPH, m	Lat N 42 deg	Lon W 70 deg		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
STA LOC	315:19:23:22			SAMPLE TYPES sed grab temp logr sand lance ctd		
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples	y, n		
brachiopod	moon snail	squid	crests: sharp	rounded		
bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n		
juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n		
cancer crab	Polymastia spg		sand partial veneer on gravel	y, n		
cod	red encr. spg		gravel pavement	y, n		
cunner	red hake					
dk yellow spg	✓ sand dollars		sand lance in water column	y, (n)		
Didemnum cols	sand lance adults		sand lance in substrate	y, (n)		
dogfish	sand lance juvs		sand lance in sed sample	y, (n)		
Eucratea loricata	scallops		size: sml med lg			
Filograna implexa	sculpin		nos:			
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks	y, n		
haddock	silver hake		ambient light	y, n		
Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)						
Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg Images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)
 SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 11 USGS STATION 4212
 PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA SBNMS Site C6, Sta

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 114
USGS STA 4213	SBNMS SITE C9	SBNMS STA	CONSEC. STATION 12	DAY-NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5
VIDEO ON BOTTOM		UTC HH MM SS 193503	DPH, m	Lat N 42 deg 13.501 min	Lon W 70 deg 17.596 min
SAMPLE TAKEN	UTC HH MM SS (193609)	DPH, m 30	Lat N 42 deg 13.500 min	Lon W 70 deg 17.592 min	
VIDEO OFF BOTTOM	UTC HH MM SS 193609	DPH, m	Lat N 42 deg 1 min	Lon W 70 deg 1 min	

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

STA LOC	315:19:36:09	SAMPLE TYPES
		sed grab temp logr
		sand lance ctd

	att epifauna	herring eggs	skate	SEABED DESCRIPTION
	Boltenia tunic.	lobster	Suberites spg	storm ripples y, n
	brachiopod	moon snail	squid	crests: sharp rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples both y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel y, n
	cod	red encr. spg		gravel pavement y, n
	cunner	red hake		
	dk yellow spg	✓ sand dollars		sand lance in water column y, m
	Didemnum cols	sand lance adults		sand lance in substrate y, n
	dogfish	sand lance juvs		sand lance in sed sample y, n
	Eucratea loricata	scallops		size: sml med lg
	Filograna implexa	sculpin		nos:
	finger spg	sea stars		
	flounder	shells & fragments		trawl/dredge marks y, n
	haddock	silver hake		ambient light y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset TibiT v2)

Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
1						1 sl in sample
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 12 USGS STATION 4213

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 115
USGS STA 4214	SBNMS SITE S1	SBNMS STA	CONSEC. STATION 13	DAY-NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 2
VIDEO ON BOTTOM	UTC HH MM SS 19 57 53	DPH, m	Lat N 42 deg 11.246 min	Lon W 70 deg 20.420 min	NAV GPS
SAMPLE TAKEN	UTC HH MM SS 19 58 29	DPH, m 41	Lat N 42 deg 11.252 min	Lon W 70 deg 20.421 min	
VIDEO OFF BOTTOM	UTC HH MM SS 19 58 29	DPH, m	Lat N 42 deg	Lon W 70 deg	

no sample STA

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

Sta loc	315:19:58:29 UTC	SAMPLE TYPES
		sed grab temp logr
		sand lance (ctd)

	att epifauna	herring eggs	skate	SEABED DESCRIPTION
	Boltenia tunic.	lobster	Suberites spg	storm ripples (y) n
	brachiopod	moon snail	squid	crests: (sharp) rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel y, n
	cod	red encr. spg		gravel pavement y, n
	cunner	red hake		
	dk yellow spg	sand dollars		sand lance in water column y, (n)
	Didemnum cols	sand lance adults		sand lance in substrate y, (n)
	dogfish	sand lance juvs		sand lance in sed sample y, n
	Eucratea loricata	scallops		size: sml med lg
	Filograna implexa	sculpin		nos:
	finger spg	sea stars		
	flounder	✓ shells & fragments		trawl/dredge marks y, n
	haddock	silver hake		ambient light y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)

Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description ✓ = in photo	Filename Auk2014066_sta_img #
1						
2						no sample
3					SS rifs, sharp crest, shells in troughs	
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6	STA 4214 and 4215					on same Go PRO video file
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CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 115	
USGS STA 4215	SBNMS SITE 51	SBNMS STA	CONSEC. STATION 14	DAY-NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 2	NAV GPS
VIDEO ON BOTTOM	UTC HH MM SS 20 03 15	DPH, m	Lat N ✓ 42 deg 11.262 min	Lon W ✓ 70 deg 20.401 min		
SAMPLE TAKEN	UTC HH MM SS 20 04 16	DPH, m 41	Lat N ✓ 42 deg 11.260 min	Lon W ✓ 70 deg 20.394 min		
VIDEO OFF BOTTOM	UTC HH MM SS 20 04 16	DPH, m	Lat N 42 deg min	Lon W 70 deg min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
STA LOC	315:20104:16 UTC			SAMPLE TYPES sed grab temp logr sand lance ctd		
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples	y, n		
brachiopod	moon snail	squid	crests: sharp rounded	y, n		
bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n		
juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n		
cancer crab	Polymastia spg		sand partial veneer on gravel	y, n		
cod	red encr. spg		gravel pavement	y, n		
cunner	red hake					
dk yellow spg	sand dollars		sand lance in water column	y, n		
Didemnum cols	sand lance adults		sand lance in substrate	y, n		
dogfish	sand lance juvs		sand lance in sed sample	y, n		
Eucratea loricata	scallops		size: sml med lg			
Filograna implexa	sculpin		nos:			
finger spg	sea stars					
flounder	shells & fragments	in troughs	trawl/dredge marks	y, n		
haddock	silver hake		ambient light	y, n		
Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset TidbiT v2)						
Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description ✓ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 14 USGS STATION 4215

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 116	
USGS STA 4216	SBNMS SITE S2	SBNMS STA	CONSEC. STATION 15	DAY-NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 2	
GPS		NAV		GPS		
VIDEO ON BOTTOM	UTC HH MM SS 20 18 25	DPH, m	Lat N 42 deg 11.385 min	Lon W 70 deg 18.287 min		
SAMPLE TAKEN	UTC: HH MM SS 201937	DPH, m 27	Lat N 42 deg 11.382 min	Lon W 70 deg 18.285 min		
VIDEO OFF BOTTOM	UTC HH-MM-SS 20-19-37	DPH, m	Lat N 42 deg ... min	Lon W 70 deg ... min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
STA LOC 315:20:19:37				SAMPLE TYPES sed grab temp logr sand lance ctd		
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples	y.	n.	
brachiopod	moon snail	squid	crests: sharp	rounded		
bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y.	n.	
juvenile cod	ocean pout	yellow encr. spg	small ripples	y.	n.	
✓ cancer crab	Polymastia spg		sand partial veneer on gravel	y.	n.	
cod	red encr. spg		gravel pavement	y.	n.	
cunner	red hake					
dk yellow spg	sand dollars		sand lance in water column	y.	n.	
Didemnum cols	sand lance adults		sand lance in substrate	y.	n.	
dogfish	sand lance juvs		sand lance in sed sample	y.	n.	
Eucratea loricata	scallops		size: sml med lg			
Filograna implexa	sculpin		nos:			
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks	y.	n.	
haddock	silver hake		ambient light	y.	n.	
Bottom temp deg C ; Surface (-1 m) temp deg C ; Difference deg C ; (Onset Tidbit v2)						
Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 15 USGS STATION 4216

CRUISE: USGS AUK2014066 SBNMS Nov 2014 JD (UTC) 314 DATE (UTC) NOV 10, 2014 NAV FILE NO. GO PRO VIDEO NO. 117

USGS STA 4217 SBNMS SITE 33 SBNMS STA CONSEC. STATION 16 DAY-NIGHT

VIDEO START AT SURFACE UTC HH MM SS VIDEO END AT SURFACE UTC HH MM SS Sunset: Nov 10, 2014 1627 EST = 2127 UTC QUAD 2 NAV GPS

VIDEO ON BOTTOM UTC HH MM SS DPH, m Lat N 42 deg 11.542 min Lon W 70 deg 16.374 min

SAMPLE TAKEN UTC HH MM SS DPH, m 25 Lat N 42 deg 11.549 min Lon W 70 deg 16.372 min

VIDEO OFF BOTTOM UTC HH MM SS DPH, m Lat N 42 deg min Lon W 70 deg min

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

STA LOC 315:20:33:00 UTC SAMPLE TYPES sed grab temp logr sand lance cid

		SEABED DESCRIPTION	
att epifauna	herring eggs	skate	storm ripples y, (n)
Boltenia tunic.	lobster	Suberites spg	crests: sharp rounded
brachiopod	moon snail	squid	gvl in ripple troughs y, n
bushy bry/hyd	mussels	tunicate, B pilu.	small ripples (y, n)
juvenile cod	ocean pout	yellow encr. spg	sand partial veneer on gravel y, n
cancer crab	Polymastia spg		gravel pavement y, n
cod	red encr. spg		
cunner	red hake		
dk yellow spg	✓ sand dollars ab		sand lance in water column y, (n)
Didemnum cols	sand lance adults		sand lance in substrate y, (n)
dogfish	sand lance juvs		sand lance in sed sample y, (n)
Eucratea loricata	scallops		size: sml med lg
Filograna implexa	sculpin		nos:
finger spg	sea stars		
flounder	shells & fragments		trawl/dredge marks y, n
haddock	silver hake		ambient light y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tibbit v2)

Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description ✓ = in photo	Filename Auk2014066_sta_img #
1						
2						no smpl
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm) SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 16 USGS STATION 4217

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 118
USGS STA 4218	SBNMS SITE S3	SBNMS STA	CONSEC. STATION 17	DAY-NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 2
VIDEO ON BOTTOM		DPH, m	Lat N ✓ 42 deg 11.534 min	Lon W ✓ 70 deg 16.373 min	NAV GPS
SAMPLE TAKEN		DPH, m	Lat N ✓ 42 deg 11.532 min	Lon W ✓ 70 deg 16.380 min	
VIDEO OFF BOTTOM		DPH, m	Lat N 42 deg min	Lon W 70 deg min	

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

			SAMPLE TYPES		
			sed grab temp logr		
			sand lance ctd		

		SEABED DESCRIPTION	
att epifauna	herring eggs	skate	storm ripples y, (n)
Boltenia tunic.	lobster	Suberites spg	crests: sharp rounded
brachiopod	moon snail	squid	gvl in ripple troughs y, n
bushy bry/hyd	mussels	tunicate, B pilu.	small ripples (y) n
juvenile cod	ocean pout	yellow encr. spg	sand partial veneer on gravel y, n
cancer crab	Polymastia spg		gravel pavement y, n
cod	red encr. spg		
cunner	red hake		
dk yellow spg	✓ sand dollars		sand lance in water column y, (n)
Didemnum cols	sand lance adults		sand lance in substrate y, (n)
dogfish	sand lance juvs		sand lance in sed sample y, (n)
Eucratea loricata	scallops		size: sml med lg
Filograna implexa	sculpin		nos:
finger spg	sea stars		
flounder	shells & fragments		trawl/dredge marks y, n
haddock	silver hake		ambient light y, n

Bottom temp deg C ; Surface (-1 m) temp deg C ; Difference deg C ; (Onset TidbiT v2)

Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description ✓ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 17 USGS STATION 4218

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 119
USGS STA 4219	SBNMS SITE 54	SBNMS STA	CONSEC. STATION 18	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 2
VIDEO ON BOTTOM		UTC HH MM SS 20 4830	DPH, m	Lat N 42 deg 11.702 min	Lon W 70 deg 14.388 min
SXA SAMPLE TAKEN	UTC HH MM SS 204930	DPH, m 28	Lat N 42 deg 11.702 min	Lon W 70 deg 14.376 min	
VIDEO OFF BOTTOM		UTC HH MM SS 204930	DPH, m	Lat N 42 deg	Lon W 70 deg

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

			SAMPLE TYPES	
			sed grab	temp logr
			sand lance	ctd

	att epifauna	herring eggs	skate	SEABED DESCRIPTION	
	Boltenia tunic.	lobster	Suberites spg	storm ripples	v. low (y) n
	brachiopod	moon snail	squid	crests:	sharp rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel	y, n
	cod	red encr. spg		gravel pavement	y, n
	cunner	red hake			
	dk yellow spg	✓ sand dollars		sand lance in water column	y, (n)
	Didemnum cols	sand lance adults		sand lance in substrate	(y) n
	dogfish	sand lance juvs		sand lance in sed sample	(y) n
	Eucratea loricata	scallops		size: (sm) med lg	
	Filograna implexa	sculpin		nos: 16	
	finger spg	sea stars			
	flounder	shells & fragments		trawl/dredge marks	y, n
	haddock	✓ silver hake	(many)	ambient light	y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)

Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 18 USGS STATION 4219

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 120
USGS STA 4220	SBNMS SITE 55	SBNMS STA	CONSEC. STATION 19	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 3
VIDEO ON BOTTOM		DPH, m	Lat N ✓ 42 deg 11.855 min	Lon W ✓ 70 deg 12.493 min	
SAMPLE TAKEN		DPH, m	Lat N ✓ 42 deg 11.855 min	Lon W ✓ 70 deg 12.487 min	
VIDEO OFF BOTTOM		DPH, m	Lat N 42 deg min	Lon W 70 deg min	

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

			SAMPLE TYPES		
			sed grab temp logr		
			sand lance ctd		

	att epifauna	herring eggs	skate	SEABED DESCRIPTION
	Boltenia tunic.	lobster	Suberites spg	storm ripples y, n
	brachiopod	moon snail	squid	crests: sharp rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel y, n
?	cod	red encr. spg		gravel pavement y, n
	cunner	red hake		
	dk yellow spg	✓ sand dollars		sand lance in water column y, n
	Didemnum cols	sand lance adults		sand lance in substrate y, n
	dogfish	sand lance juvs		sand lance in sed sample y, n
	Eucratea loricata	scallops		size: sml med lg
	Filograna implexa	sculpin		nos:
	finger spg	sea stars		
	flounder	shells & fragments		trawl/dredge marks y, n
?	haddock	✓ silver hake	many	ambient light y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset TidbiT v2)

Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 19 USGS STATION 4220

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 121	
USGS STA 4221	SBNMS SITE 56	SBNMS STA	CONSEC. STATION 20	DAY-NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 3	
VIDEO ON BOTTOM		UTC HH MM SS 21 1653	DPH, m	Lat N ✓ 42 deg 12.000 min	Lon W ✓ 70 deg 10.488 min	
SAMPLE TAKEN		UTC HH MM SS 21 1819	DPH, m 40	Lat N ✓ 42 deg 12.002 min	Lon W ✓ 70 deg 10.491 min	
VIDEO OFF BOTTOM		UTC HH MM SS 21 1819	DPH, m	Lat N 42 deg min	Lon W 70 deg min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
					SAMPLE TYPES	
					sed grab temp logr	
					sand lance <u>ctd</u>	
	att epifauna	herring eggs	skate	SEABED DESCRIPTION		
	Boltenia tunic.	lobster	Suberites spg	storm ripples	y, n	
	brachiopod	moon snail	squid	crests: sharp	<u>rounded</u>	
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n	
	juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n	
	cancer crab	Polymastia spg		sand partial veneer on gravel	y, n	
	cod	red encr. spg		gravel pavement	y, n	
	cunner	red hake				
	dk yellow spg ✓	sand dollars		sand lance in water column	y, <u>n</u>	
	Didemnum cols	sand lance adults		sand lance in substrate	y, <u>n</u>	
	dogfish	sand lance juvs		sand lance in sed sample	y, n	
	Eucratea loricata ✓	scallops		size: sml med lg		
	Filograna implexa	sculpin		nos:		
	finger spg	sea stars				
	flounder	shells & fragments		trawl/dredge marks	y, n	
	haddock ✓	silver hake		ambient light	y, n	
Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset TidbiT v2)						
Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description ✓ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 20 USGS STATION 4221

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 122
USGS STA 4222	SBNMS SITE S6	SBNMS STA	CONSEC. STATION 21	DAY NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 3
VIDEO ON BOTTOM	UTC HH MM SS 21 2136	DPH, m	Lat N 42 deg 12.013 min	Lon W 70 deg 10.491 min	NAV GPS
SAMPLE TAKEN	UTC HH MM SS 21 22 49	DPH, m 40	Lat N 42 deg 12.008 min	Lon W 70 deg 10.494 min	
VIDEO OFF BOTTOM	UTC HH MM SS 21 22 49	DPH, m	Lat N 42 deg min	Lon W 70 deg min	

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

				SAMPLE TYPES	
				sed grab temp logr	
				sand lance ctd	

	att epifauna	herring eggs	skate	SEABED DESCRIPTION	
	Boltenia tunic.	lobster	Suberites spg	storm ripples	y, n
	brachiopod	moon snail	squid	crests: sharp	rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel	y, n
	cod	red encr. spg		gravel pavement	y, n
	cunner	red hake			
	dk yellow spg	✓ sand dollars		sand lance in water column	y, n
	Didemnum coils	sand lance adults		sand lance in substrate	y, n
	dogfish	sand lance juvs		sand lance in sed sample	y, n
	Eucratea loricata	scallops		size: sml	med lg
	Filograna implexa	sculpin		nos: 5 7 5	gravid adult ♀
	finger spg	sea stars			
	flounder	shells & fragments		trawl/dredge marks	y, n
	haddock	silver hake		ambient light	y, n

Bottom temp deg C ; Surface (-1 m) temp deg C ; Difference deg C ; (Onset TidbiT v2)

Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 21 USGS STATION 4222

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 123	
USGS STA 4223	SBNMS SITE 57	SBNMS STA	CONSEC. STATION 22	DAY-NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 6	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 213554	DPH, m	Lat N ✓ 42 deg 12.143 min	Lon W ✓ 70 deg 8.498 min		
SAMPLE TAKEN	UTC HH MM SS 213742	DPH, m 43	Lat N ✓ 42 deg 12.139 min	Lon W ✓ 70 deg 8.497 min		
VIDEO OFF BOTTOM	UTC HH MM SS 213742	DPH, m	Lat N 42 deg min	Lon W 70 deg min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
					SAMPLE TYPES sed grab temp logr sand lance ctd	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples	low	y, n	
brachiopod	moon snail	squid	crests:	sharp	(rounded)	
bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs		y, n	
juvenile cod	ocean pout	yellow encr. spg	small ripples on top of storm ripples		y, n	
cancer crab	Polymastia spg		sand partial veneer on gravel		y, n	
cod	red encr. spg		gravel pavement		y, n	
cunner	red hake					
dk yellow spg	✓ sand dollars		sand lance in water column		y, n	
Didemnum cols	sand lance adults		sand lance in substrate		y, n	
dogfish	sand lance juvs		sand lance in sed sample		y, n	
Eucratea loricata	scallops		size:	sml med lg		
Filograna implexa	sculpin		nos:			
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks		y, n	
haddock	silver hake		ambient light		y, n	
Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset TidbiT v2)						
Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description ✓ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 22 USGS STATION 4223

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 124	
USGS STA 4224	SBNMS SITE 58	SBNMS STA	CONSEC. STATION 23	DAY - NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 3	
VIDEO ON BOTTOM		UTC HH MM SS 21 49 59	DPH, m	Lat N 42 deg 11.146 min	Lon W 70 deg 8.312 min	
STA SAMPLE TAKEN	UTC HH MM SS (21 50 49)	DPH, m 42	Lat N 42 deg 11.152 min	Lon W 70 deg 8.313 min		
	VIDEO OFF BOTTOM	UTC HH MM SS 21 50 47	DPH, m	Lat N 42 deg min	Lon W 70 deg min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
					SAMPLE TYPES sed grab temp logr sand lance ctd	
att epifauna		herring eggs	skate	SEABED DESCRIPTION		
Boltenia tunic.		lobster	Suberites spg	storm ripples y, (n)		
brachiopod		moon snail	squid	crests: sharp rounded		
bushy bry/hyd		mussels	tunicate, B pilu.	gvl in ripple troughs y, n		
juvenile cod		ocean pout	yellow encr. spg	small ripples (y, n)		
cancer crab		Polymastia spg		sand partial veneer on gravel y, n		
cod		red encr. spg		gravel pavement y, n		
cunner		red hake				
dk yellow spg		sand dollars		sand lance in water column y, (n)		
Didemnum cols		sand lance adults		sand lance in substrate y, (n)		
dogfish		sand lance juvs		sand lance in sed sample y, (n)		
Eucratea loricata		scallops		size: sml med lg		
Filograna implexa		sculpin		nos:		
finger spg		sea stars				
flounder		shells & fragments		trawl/dredge marks y, n		
haddock		silver hake		ambient light y, n		
Bottom temp deg C ; Surface (-1 m) temp deg C ; Difference deg C ; (Onset TibiT v2)						
Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 23 USGS STATION 4224

CRUISE: USGS AUK2014066 SBNMS Nov 2014	JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 125
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USGS STA 4225	SBNMS SITE 59	SBNMS STA	CONSEC. STATION 24	DAY - NIGHT
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VIDEO START AT SURFACE UTC HH MM SS	VIDEO END AT SURFACE UTC HH MM SS	Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 3	NAV GPS
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VIDEO ON BOTTOM	UTC HH MM SS 22 06 11	DPH, m	Lat N 42 deg 11.002 min	Lon W 70 deg 10.289 min
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SAMPLE TAKEN	UTC HH MM SS 22 07 12	DPH, m 39	Lat N 42 deg 11.005 min	Lon W 70 deg 10.296 min
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VIDEO OFF BOTTOM	UTC HH MM SS 22 07 12	DPH, m	Lat N 42 deg min	Lon W 70 deg min
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STA
no spl

pre-tripped —; no smpl attempted —; jaws partly open ✓; washout —; refusal —; too gravelly/shelly —

			SAMPLE TYPES	
			sed grab	temp logr
			sand lance	(ctd)

	att epifauna	herring eggs	skate	SEABED DESCRIPTION	
	Boltenia tunic.	lobster	Suberites spg	storm ripples	low y, n
	brachiopod	moon snail	squid	crests: sharp	rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel	y, n
	cod	red encr. spg		gravel pavement	y, n
	cunner	red hake			
	dk yellow spg	sand dollars		sand lance in water column	y, (n)
	Didemnum cols	sand lance adults		sand lance in substrate	(y), n
	dogfish	sand lance juvs		sand lance in sed sample	y, n
	Eucratea loricata	scallops		size: sml med lg	
	Filograna implexa	sculpin		nos:	
	finger spg	sea stars			
	flounder	shells & fragments		trawl/dredge marks	y, n
	haddock	silver hake		ambient light	y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)

Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 24 USGS STATION 4225

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 126
USGS STA 4226	SBNMS SITE 59	SBNMS STA	CONSEC. STATION 25	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 3
VIDEO ON BOTTOM	UTC HH MM SS 22 11 25	DPH, m	Lat N 42 deg 11.003 min	Lon W 70 deg 10.288 min	NAV GPS
SAMPLE TAKEN	UTC HH MM SS 22 12 38	DPH, m 39	Lat N 42 deg 11.004 min	Lon W 70 deg 10.285 min	
VIDEO OFF BOTTOM	UTC HH MM SS 22 12 38	DPH, m	Lat N 42 deg min	Lon W 70 deg min	

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

				SAMPLE TYPES	
				sed grab	temp logr
				sand lance	ctd

	att epifauna	herring eggs	skate	SEABED DESCRIPTION	
	Boltenia tunic.	lobster	Suberites spg	storm ripples	y, n
	brachiopod	moon snail	squid	crests: sharp	rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel	y, n
	cod	red encr. spg		gravel pavement	y, n
	cunner	red hake			
	dk yellow spg	✓ sand dollars		sand lance in water column	y, n
	Didemnum cols	sand lance adults		sand lance in substrate	y, n
	dogfish	✓ sand lance juvs		sand lance in sed sample	y, n
	Eucratea loricata	✓ scallops		size: sml med lg	
	Filograna implexa	sculpin		nos:	
	finger spg	sea stars			
	flounder	shells & fragments		trawl/dredge marks	y, n
	haddock	silver hake		ambient light	y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)

Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 25 USGS STATION 4226

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 127
USGS STA 4227	SBNMS SITE 510	SBNMS STA	CONSEC. STATION 26	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 3
VIDEO ON BOTTOM		UTC HH MM SS 22 2600	DPH, m	Lat N ✓ 42 deg 10.901 min	Lon W ✓ 70 deg 12.280 min
SAMPLE TAKEN		UTC HH MM SS 22 27 13	DPH, m 36	Lat N ✓ 42 deg 10.902 min	Lon W ✓ 70 deg 12.285 min
VIDEO OFF BOTTOM		UTC HH MM SS 22 27 13	DPH, m	Lat N 42 deg min	Lon W 70 deg min

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

			SAMPLE TYPES	
			sed grab	temp logr
			sand lance	ctd

	att epifauna	herring eggs	skate	SEABED DESCRIPTION
	Boltenia tunic.	lobster	Suberites spg	storm ripples y, n
	brachiopod	moon snail	squid	crests: sharp rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel y, n
	cod	red encr. spg		gravel pavement y, n
	cunner	red hake		
	dk yellow spg	✓ sand dollars		sand lance in water column y, n
	Didemnum cols	sand lance adults		sand lance in substrate y, n
	dogfish	sand lance juvs		sand lance in sed sample y, n
	Eucratea loricata	scallops		size: sml med lg
	Filograna implexa	sculpin		nos: 3
	finger spg	sea stars	ind	male running ripe
	flounder	shells & fragments		trawl/dredge marks y, n
	haddock	silver hake		ambient light y, n

Bottom temp deg C ; Surface (-1 m) temp deg C ; Difference deg C ; (Onset Tidbit v2)

Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 128	
USGS STA 4228	SBNMS SITE 311	SBNMS STA	CONSEC. STATION 27	DAY - NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 2	
VIDEO ON BOTTOM		UTC HH MM SS 22 43 49	DPH, m	Lat N ✓ 42 deg 10.704 min	Lon W ✓ 70 deg 14.285 min	
SAMPLE TAKEN	UTC HH MM SS 22 45 08	DPH, m 26	Lat N ✓ 42 deg 10.706 min	Lon W ✓ 70 deg 14.285 min		
VIDEO OFF BOTTOM	UTC HH MM SS 22 45 08	DPH, m	Lat N 42 deg min	Lon W 70 deg min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
				SAMPLE TYPES		
				sed grab temp logr		
				sand lance ctd		
att epifauna		herring eggs	skate	SEABED DESCRIPTION		
Boltenia tunic.	lobster	Suberites spg	storm ripples	y, n		
brachiopod	moon snail	squid	crests: sharp	rounded		
bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n		
juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n		
cancer crab	Polymastia spg		sand partial veneer on gravel	y, n		
cod	red encr. spg		gravel pavement	y, n		
cunner	red hake					
dk yellow spg	✓ sand dollars		sand lance in water column	y, n		
Didemnum cols	sand lance adults		sand lance in substrate	y, n		
dogfish	sand lance juvs		sand lance in sed sample	y, n		
Eucratea loricata	scallops		size: sml	med lg		
Filograna implexa	sculpin		nos:			
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks	y, n		
haddock	✓ silver hake		ambient light	y, n		
Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)						
Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 27 USGS STATION 4228

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 129
USGS STA 4229	SBNMS SITE 512	SBNMS STA	CONSEC. STATION 28	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 2
VIDEO ON BOTTOM		UTC HH MM SS 22 57 42	DPH, m	Lat N ✓ 42 deg 10.602 min	Lon W ✓ 70 deg 16.187 min
SAMPLE TAKEN		UTC HH MM SS 22 59 19	DPH, m 23	Lat N ✓ 42 deg 10.604 min	Lon W ✓ 70 deg 16.189 min
VIDEO OFF BOTTOM		UTC HH MM SS 22 59 19	DPH, m	Lat N 42 deg min	Lon W 70 deg min

pre-tripped ---; no smpl attempted ---; jaws partly open ---; washout ---; refusal ---; too gravelly/shelly ---

			SAMPLE TYPES
			sed grab temp logr
			sand lance ctd

	att epifauna	herring eggs	skate	SEABED DESCRIPTION
	Boltenia tunic.	lobster	Suberites spg	storm ripples y, (n)
	brachiopod	moon snail	squid	crests: sharp rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples (y, n)
	cancer crab	Polymastia spg		sand partial veneer on gravel y, n
	cod	red encr. spg		gravel pavement y, n
	cunner	red hake		
	dk yellow spg ✓	sand dollars	unident fish	sand lance in water column y, (n)
	Didemnum cols	sand lance adults		sand lance in substrate y, (n)
	dogfish	sand lance juvs		sand lance in sed sample y, (n)
	Eucratea loricata	scallops		size: sml med lg
	Filograna implexa	sculpin		nos:
	finger spg	sea stars		
	flounder	shells & fragments		trawl/dredge marks y, n
	haddock ✓	silver hake (many)		ambient light y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset TidbiT v2)

Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description ✓ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 28 USGS STATION 4229

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10, 2014	NAV FILE NO.	GO PRO VIDEO NO. 130
USGS STA 4230	SBNMS SITE 513	SBNMS STA	CONSEC. STATION 29	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 2
VIDEO ON BOTTOM		DPH, m	Lat N ✓ 42 deg 10.413' min	Lon W ✓ 70 deg 18.290 min	
SAMPLE TAKEN		DPH, m	Lat N ✓ 42 deg 10.417 min	Lon W ✓ 70 deg 18.291 min	
VIDEO OFF BOTTOM		DPH, m	Lat N 42 deg min	Lon W 70 deg min	

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

			SAMPLE TYPES		
			sed grab temp logr		
			sand lance ctd		

		SEABED DESCRIPTION	
att epifauna	herring eggs	skate	storm ripples (y) n
Boltenia tunic.	lobster	Suberites spg	crests: sharp rounded
brachiopod	moon snail	squid	gvl in ripple troughs y, n
bushy bry/hyd	mussels	tunicate, B pilu.	small ripples y, n
juvenile cod	ocean pout	yellow encr. spg	sand partial veneer on gravel y, n
cancer crab	Polymastia spg		gravel pavement y, n
cod	red encr. spg		
cunner	red hake		
dk yellow spg ✓	sand dollars		sand lance in water column y, (n)
Didemnum cols	sand lance adults		sand lance in substrate (y) n
dogfish	sand lance juvs		sand lance in sed sample (y) n
Eucratea loricata	scallops		size: sml med lg
Filograna implexa	sculpin		nos: 10
finger spg	sea stars		
flounder	shells & fragments		trawl/dredge marks y, n
haddock ✓	silver hake	many	ambient light y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)

Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg Images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 29 USGS STATION 4230

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 314	DATE (UTC) NOV 10 ^{10 NOV EST} , 2014	NAV FILE NO.	GO PRO VIDEO NO. 131
USGS STA 4231	SBNMS SITE 514	SBNMS STA 315 ^{EST}	CONSEC. STATION 30	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 2
VIDEO ON BOTTOM	UTC HH MM SS 23 33 08	DPH, m	Lat N 42 deg 10.252 min	Lon W 70 deg 20.291 min	NAV GPS
SAMPLE TAKEN	UTC HH MM SS (23 34 10)	DPH, m 28	Lat N 42 deg 10.258 min	Lon W 70 deg 20.293 min	
VIDEO OFF BOTTOM	UTC HH MM SS 23 34 10	DPH, m	Lat N 42 deg min	Lon W 70 deg min	

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

			SAMPLE TYPES		
			sed grab temp logr		
			sand lance ctd		

	att epifauna	herring eggs	skate	SEABED DESCRIPTION	
	Boltenia tunic.	lobster	Suberites spg	storm ripples	y, n
	brachiopod	moon snail	squid	crests: sharp	rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel	y, n
	cod	red encr. spg		gravel pavement	y, n
	cunner	red hake			
	dk yellow spg	✓ sand dollars	many	sand lance in water column	y, n
	Didemnum cols	sand lance adults		sand lance in substrate	y, n
	dogfish	sand lance juvs		sand lance in sed sample	y, n
	Eucratea loricata	scallops		size: sml med lg	
	Filograna implexa	sculpin		nos:	
	finger spg	sea stars			
	flounder	shells & fragments		trawl/dredge marks	y, n
	haddock	silver hake		ambient light	y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset TidbiT v2)

Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 30 USGS STATION 4231

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 315	DATE (UTC) NOV 10 = 10:00 EST, 2014	NAV FILE NO.	GO PRO VIDEO NO. 132
USGS STA 4232	SBNMS SITE C8	SBNMS STA = 315 ^{est}	CONSEC. STATION 31	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5
VIDEO ON BOTTOM	UTC HH MM SS 00 0355	DPH, m	Lat N 42 deg 12.448 min	Lon W 70 deg 17.408 min	NAV GPS
SAMPLE TAKEN	UTC HH MM SS (00 04 13)	DPH, m 25	Lat N 42 deg 12.450 min	Lon W 70 deg 17.409 min	
VIDEO OFF BOTTOM	UTC HH MM SS 00 04 13	DPH, m	Lat N 42 deg min	Lon W 70 deg min	

STA
NO
SPL

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

				SAMPLE TYPES	
				sed grab	temp logr
				sand lance	(ctd)

				SEABED DESCRIPTION	
att epifauna	herring eggs	skate		storm ripples	y, n
Boltenia tunic.	lobster	Suberites spg		crests: sharp	(rounded)
brachiopod	moon snail	squid		gvl in ripple troughs	y, n
bushy bry/hyd	mussels	tunicate, B pilu.		small ripples	y, n
juvenile cod	ocean pout	yellow encr. spg		sand partial veneer on gravel	y, n
cancer crab	Polymastia spg			gravel pavement	y, n
cod	red encr. spg				
cunner	red hake				
dk yellow spg	✓ sand dollars			sand lance in water column	y, (n)
Didemnum cols	sand lance adults			sand lance in substrate	y, (n)
dogfish	sand lance juvs			sand lance in sed sample	y, n
Eucratea loricata	scallops			size: sml med lg	
Filograna implexa	sculpin			nos:	
finger spg	sea stars				
flounder	shells & fragments			trawl/dredge marks	y, n
haddock	silver hake			ambient light	y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)

Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 315	DATE (UTC) NOV 11, 2014	NAV FILE NO.	GO PRO VIDEO NO. 133
USGS STA 4233	SBNMS SITE C8	SBNMS STA	CONSEC. STATION 32	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5
VIDEO ON BOTTOM	UTC HH MM SS 00 07 44	DPH, m	Lat N 42 deg 12.479 min	Lon W 70 deg 17.396 min	NAV GPS
SAMPLE TAKEN	UTC HH MM SS 00 08 45	DPH, m 26	Lat N 42 deg 12.487 min	Lon W 70 deg 17.390 min	
VIDEO OFF BOTTOM	UTC HH MM SS 00 08 45	DPH, m	Lat N 42 deg min	Lon W 70 deg min	

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

				SAMPLE TYPES	
				sed grab	temp logr
				sand lance	ctd

	att epifauna	herring eggs	skate	SEABED DESCRIPTION
	Boltenia tunic.	lobster	Suberites spg	storm ripples y, n
	brachiopod	moon snail	squid	crests: sharp rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel y, n
	cod	red encr. spg		gravel pavement y, n
	cunner	red hake		
	dk yellow spg	✓ sand dollars	v. abund	sand lance in water column y, n
	Didemnum cols	sand lance adults		sand lance in substrate y, n
	dogfish	sand lance juvs		sand lance in sed sample y, n
	Eucratea loricata	scallops		size: sml med lg
	Filograna implexa	sculpin		nos:
	finger spg	sea stars		
	flounder	shells & fragments		trawl/dredge marks y, n
	haddock	silver hake		ambient light y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset TidbiT v2)

Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 32 USGS STATION 4233

CRUISE: USGS AUK2014066 SBNMS Nov 2014 JD (UTC) 315 DATE (UTC) NOV 11, 2014 NAV FILE NO. GO PRO VIDEO NO. 134

USGS STA 4234 SBNMS SITE C7 SBNMS STA CONSEC. STATION 33 DAY - NIGHT

VIDEO START AT SURFACE UTC HH MM SS VIDEO END AT SURFACE UTC HH MM SS Sunset: Nov 10, 2014 1627 EST = 2127 UTC QUAD 5 NAV GPS

VIDEO ON BOTTOM UTC HH MM SS DPH, m Lat N 42 deg 12.694 min Lon W 70 deg 16.083 min

SAMPLE TAKEN UTC HH MM SS DPH, m Lat N 42 deg 12.687 min Lon W 70 deg 16.087 min

VIDEO OFF BOTTOM UTC HH MM SS DPH, m Lat N 42 deg min Lon W 70 deg min

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

SAMPLE TYPES
 sed grab temp logr
 sand lance

	att epifauna	herring eggs	skate	SEABED DESCRIPTION
	Boltenia tunic.	lobster	Suberites spg	storm ripples y, (n)
	brachiopod	moon snail	squid	crests: sharp rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples (y) n
	cancer crab	Polymastia spg		sand partial veneer on gravel y, n
	cod	red encr. spg		gravel pavement y, n
	cunner	red hake		
	dk yellow spg	sand dollars		sand lance in water column y, (n)
	Didemnum cols	sand lance adults		sand lance in substrate y, (n)
	dogfish	sand lance juvs		sand lance in sed sample (y) n
	Eucratea loricata	scallops		size: sml med lg
	Filograna implexa	sculpin		nos: 1
	finger spg	sea stars		
	flounder	shells & fragments		trawl/dredge marks y, n
	haddock	✓ silver hake		ambient light y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)

Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm) SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 33 USGS STATION 4234

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 315	DATE (UTC) NOV 11, 2014	NAV FILE NO.	GO PRO VIDEO NO. 135
USGS STA 4235	SBNMS SITE C5	SBNMS STA	CONSEC. STATION 34	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5
VIDEO ON BOTTOM		UTC HH MM SS 00 4221	DPH, m	Lat N ✓ 42 deg 14.700 min	Lon W ✓ 70 deg 16.399 min
SAMPLE TAKEN		UTC HH-MM SS (00 4334)	DPH, m 26	Lat N ✓ 42 deg 14.693 min	Lon W ✓ 70 deg 16.395 min
VIDEO OFF BOTTOM		UTC HH-MM SS 00 4334	DPH, m	Lat N 42 deg min	Lon W 70 deg min

pre-tripped —; no smpl attempted —; jaws partly open ✓; washout —; refusal —; too gravelly/shelly —

				SAMPLE TYPES	
				sed grab	temp logr
				sand lance	(cid)

	att epifauna	herring eggs	✓ skate	SEABED DESCRIPTION	
	Boltenia tunic.	lobster	Suberites spg	storm ripples	(y) n
	brachiopod	moon snail	squid	crests: low (sharp)	rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel	y, n
	cod	red encr. spg		gravel pavement	y, n
	cunner	red hake			
	dk yellow spg ✓	sand dollars		sand lance in water column	y, (n)
	Didemnum cols	sand lance adults		sand lance in substrate	(y) n
	dogfish	sand lance juvs		sand lance in sed sample	y, n
	Eucratea loricata	scallops		size: sml med lg	
	Filograna implexa ✓	sculpin		nos:	
	finger spg	sea stars			
	flounder	shells & fragments		trawl/dredge marks	y, n
	haddock	silver hake		ambient light	y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)

Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description ✓ = in photo	Filename Auk2014066_sta_img #
1						
2						no smpl
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 34 USGS STATION 4235

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 315	DATE (UTC) NOV 11, 2014	NAV FILE NO.	GO PRO VIDEO NO. 136	
USGS STA 4236	SBNMS SITE C5	SBNMS STA	CONSEC. STATION 35	DAY - NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5	
VIDEO ON BOTTOM		UTC HH MM SS 00 47 05	DPH, m	Lat N 42 deg 14.679 min	Lon W 70 deg 16.363 min	
SAMPLE TAKEN		UTC HH MM SS (00 47 47)	DPH, m 26	Lat N 42 deg 14.674 min	Lon W 70 deg 16.353 min	
VIDEO OFF BOTTOM		UTC - HH MM SS 00 47 47	DPH, m	Lat N 42 deg min	Lon W 70 deg min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
					SAMPLE TYPES sed grab temp logr sand lance (ctd)	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples	(y) n		
brachiopod	moon snail	squid	crests: sharp	(rounded)		
bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n		
juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n		
cancer crab	Polymastia spg		sand partial veneer on gravel	y, n		
cod	red encr. spg		gravel pavement	y, n		
cunner	red hake					
dk yellow spg	sand dollars		sand lance in water column	y, (n)		
Didemnum cols	sand lance adults		sand lance in substrate	y, (n)		
dogfish	sand lance juvs		sand lance in sed sample	y, (n)		
Eucratea loricata	scallops		size: sml med lg			
Filograna implexa ✓	sculpin		nos:			
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks	y, n		
haddock	silver hake		ambient light	y, n		
Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)						
Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 35 USGS STATION 4236

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 315	DATE (UTC) NOV 11, 2014	NAV FILE NO.	GO PRO VIDEO NO. 137
USGS STA 4237	SBNMS SITE C10	SBNMS STA	CONSEC. STATION 36	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS 0801 <i>at</i>		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5
VIDEO ON BOTTOM		DPH, m	Lat N 42 deg 14.532 min	Lon W 70 deg 17.807 min	NAV GPS
SAMPLE TAKEN		DPH, m	Lat N 42 deg 14.543 min	Lon W 70 deg 17.814 min	
VIDEO OFF BOTTOM		DPH, m	Lat N 42 deg min	Lon W 70 deg min	

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

			SAMPLE TYPES		
			sed grab temp logr		
			sand lance ctd		

	att epifauna	herring eggs	skate	SEABED DESCRIPTION
	Boltenia tunic.	lobster	Suberites spg	storm ripples <input checked="" type="checkbox"/> y, <input type="checkbox"/> n
	brachiopod	moon snail	squid	crests: sharp <input checked="" type="checkbox"/> rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel y, n
	cod	red encr. spg		gravel pavement y, n
	cunner	red hake		
	dk yellow spg	sand dollars		sand lance in water column y, <input checked="" type="checkbox"/> n
	Didemnum cols	sand lance adults	<i>on/in</i>	sand lance in substrate <input checked="" type="checkbox"/> y, <input type="checkbox"/> n
	dogfish	sand lance juvs		sand lance in sed sample y, <input checked="" type="checkbox"/> n
	Eucratea loricata	scallops		size: sml med lg
	Filograna implexa	sculpin		nos:
	finger spg	sea stars		
	flounder	shells & fragments		trawl/dredge marks y, n
	haddock	silver hake		ambient light y, n

Bottom temp deg C ; Surface (-1 m) temp deg C ; Difference deg C ; (Onset TidbiT v2)

Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 36 USGS STATION 4237

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 315	DATE (UTC) NOV 11, 2014	NAV FILE NO.	GO PRO VIDEO NO. 138	
USGS STA 4238	SBNMS SITE C11	SBNMS STA	CONSEC. STATION 37	DAY NIGHT NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 01 13 54	DPH, m	Lat N 42 deg 15.596 min	Lon W 70 deg 17.896 min		
SAMPLE TAKEN	UTC HH MM SS 01 15 10	DPH, m 31	Lat N 42 deg 15.597 min	Lon W 70 deg 17.893 min		
VIDEO OFF BOTTOM	UTC HH MM SS 01 15 10	DPH, m	Lat N 42 deg min	Lon W 70 deg min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
					SAMPLE TYPES sed grab temp logr sand lance ctd	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples	y n		
brachiopod	moon snail	squid	crests: sharp	rounded		
bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n		
juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n		
cancer crab	Polymastia spg		sand partial veneer on gravel	y, n		
cod	red encr. spg		gravel pavement	y, n		
cunner	red hake					
dk yellow spg	sand dollars		sand lance in water column	y, n		
Didemnum cols	sand lance adults		sand lance in substrate	y, n		
dogfish	sand lance juvs		sand lance in sed sample	y, n		
Eucratea loricata	scallops		size: sml med lg			
Filograna implexa	sculpin		nos:			
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks	y, n		
haddock	silver hake		ambient light	y, n		
Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)						
Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
1						
2						no sample
3						
4						
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 37 USGS STATION 4238

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 315	DATE (UTC) NOV 11, 2014	NAV FILE NO.	GO PRO VIDEO NO. 139
USGS STA 42391	SBNMS SITE C11	SBNMS STA	CONSEC. STATION 38	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5
VIDEO ON BOTTOM	UTC HH MM SS 011717	DPH, m	Lat N ✓ 42 deg 15.607 min	Lon W ✓ 70 deg 17.892 min	NAV GPS
SAMPLE TAKEN	UTC-HH MM SS 011906	DPH, m 31	Lat N 42 deg 15.606 min	Lon W 70 deg 17.898 min	
VIDEO OFF BOTTOM	UTC HH MM SS 011906	DPH, m	Lat N 42 deg min	Lon W 70 deg min	

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

			SAMPLE TYPES		
			sed grab temp logr		
			sand lance ctd		

	att epifauna	herring eggs	skate	SEABED DESCRIPTION	
	Boltenia tunic.	lobster	Suberites spg	storm ripples	(y) n
	brachiopod	moon snail	squid	crests: ± sharp	rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n
	juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel	y, n
	cod	red encr. spg		gravel pavement	y, n
	cunner	red hake			
	dk yellow spg	sand dollars		sand lance in water column	y, (n)
	Didemnum cols	sand lance adults		sand lance in substrate	y, (n)
	dogfish	sand lance juvs		sand lance in sed sample	y, (n)
	Eucratea loricata	scallops		size: sml med lg	
	Filograna implexa	sculpin		nos:	
	finger spg	sea stars			
	flounder	shells & fragments		trawl/dredge marks	y, n
	haddock	silver hake		ambient light	y, n

Bottom temp deg C ; Surface (-1 m) temp deg C ; Difference deg C ; (Onset Tidbit v2)

Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description ✓ = in photo	Filename Auk2014066_sta_img #
1						
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 381 USGS STATION 42391

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 315	DATE (UTC) NOV 11, 2014	NAV FILE NO.	GO PRO VIDEO NO. 140	
USGS STA 4240	SBNMS SITE C4	SBNMS STA	CONSEC STATION 39	DAY NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5	
VIDEO ON BOTTOM		UTC HH MM SS 013116	DPH, m	Lat N 42 deg 15.751 min	Lon W 70 deg 16.602 min	
SAMPLE TAKEN		UTC HH MM SS (013217)	DPH, m 27	Lat N 42 deg 15.759 min	Lon W 70 deg 16.619 min	
VIDEO OFF BOTTOM		UTC HH MM SS 013217	DPH, m	Lat N 42 deg min	Lon W 70 deg min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
					SAMPLE TYPES sed grab temp logr sand lance <u>ctd</u>	
att epifauna		herring eggs	skate	SEABED DESCRIPTION		
Boltenia tunic.		lobster	Suberites spg	storm ripples	(y) n	
brachiopod		moon snail	squid	crests: <u>sharp</u>	rounded	
bushy bry/hyd		mussels	tunicate, B pilu.	gvl in ripple troughs	y, n	
juvenile cod		ocean pout	yellow encr. spg	small ripples	y, n	
cancer crab		Polymastia spg		sand partial veneer on gravel	y, n	
cod		red encr. spg		gravel pavement	y, n	
cunner		red hake				
dk yellow spg		✓ sand dollars		sand lance in water column	y, (n)	
Didemnum cols		sand lance adults		sand lance in substrate	y, (n)	
dogfish		sand lance juvs		sand lance in sed sample	y, n	
Eucratea loricata		scallops		size: sml med lg		
Filograna implexa		sculpin		nos:		
finger spg		sea stars				
flounder		shells & fragments		trawl/dredge marks	y, n	
haddock		silver hake		ambient light	y, n	
Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)						
Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
1						
2						no sample
3						
4						
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8						
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 39 USGS STATION 4240

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 315	DATE (UTC) NOV 11, 2014	NAV FILE NO.	GO PRO VIDEO NO. 141	
USGS STA 4241	SBNMS SITE C4	SBNMS STA	CONSEC. STATION 40	DAY - NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5	
VIDEO ON BOTTOM		UTC HH MM SS 01 3448	DPH, m	Lat N 42 deg 15.763 min	Lon W 70 deg 16.633 min	
SAMPLE TAKEN		UTC HH MM SS 01 3606	DPH, m 27	Lat N 42 deg 15.758 min	Lon W 70 deg 16.631 min	
VIDEO OFF BOTTOM		UTC HH MM SS 01 3606	DPH, m	Lat N 42 deg min	Lon W 70 deg min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
					SAMPLE TYPES sed grab temp logr sand lance <u>ctd</u>	
	att epifauna	herring eggs	skate	SEABED DESCRIPTION		
	Boltenia tunic.	lobster	Suberites spg	storm ripples	y n	
	brachiopod	moon snail	squid	crests: <u>sharp</u>	rounded	
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	y, n	
	juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n	
	cancer crab	Polymastia spg		sand partial veneer on gravel	y, n	
	cod	red encr. spg	<i>Salps in water</i>	gravel pavement	y, n	
	cunner	red hake				
	dk yellow spg	sand dollars		sand lance in water column	y, <u>n</u>	
	Didemnum cols	sand lance adults		sand lance in substrate	y, <u>n</u>	
	dogfish	sand lance juvs		sand lance in sed sample	y, n	
	Eucratea loricata	scallops		size: sml med lg		
	Filograna implexa	sculpin		nos:		
	finger spg	sea stars				
	flounder	shells & fragments		trawl/dredge marks	y, n	
	haddock	silver hake		ambient light	y, n	
Bottom temp deg C ; Surface (-1 m) temp deg C ; Difference deg C ; (Onset TidbiT v2)						
Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
1						
2						<i>no sample</i>
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 40 USGS STATION 4241

*STA
no spg*

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 315	DATE (UTC) NOV 11, 2014	NAV FILE NO.	GO PRO VIDEO NO.
USGS STA 4242	SBNMS SITE C3	SBNMS STA	CONSEC. STATION 41	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5
VIDEO ON BOTTOM		DPH, m	Lat N 42 deg 16.709 min	Lon W 70 deg 16.804 min	
SAMPLE TAKEN		DPH, m	Lat N 42 deg 16.701 min	Lon W 70 deg 16.801 min	
VIDEO OFF BOTTOM		DPH, m	Lat N 42 deg min	Lon W 70 deg min	

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

			SAMPLE TYPES		
			sed grab temp logr		
			sand lance ctd		

		SEABED DESCRIPTION	
att epifauna	herring eggs	skate	storm ripples <input checked="" type="checkbox"/> n
Boltenia tunic.	lobster	Suberites spg	crests: <input checked="" type="checkbox"/> sharp <input type="checkbox"/> rounded
brachiopod	moon snail	squid	gvl in ripple troughs y, n
bushy bry/hyd	mussels	tunicate, B pilu.	small ripples y, n
juvenile cod	ocean pout	yellow encr. spg	sand partial veneer on gravel y, n
cancer crab	Polymastia spg		gravel pavement y, n
cod	red encr. spg		
cunner	red hake		
dk yellow spg	✓ sand dollars		sand lance in water column <input checked="" type="checkbox"/> n
Didemnum cols	sand lance adults		sand lance in substrate y, <input checked="" type="checkbox"/> n
dogfish	sand lance juvs		sand lance in sed sample y, <input checked="" type="checkbox"/> n
Eucratea loricata	scallops		size: sml med lg
Filograna implexa	sculpin		nos:
finger spg	sea stars		
flounder	shells & fragments		trawl/dredge marks y, n
haddock	silver hake		ambient light y, n

Bottom temp deg C ; Surface (-1 m) temp deg C ; Difference deg C ; (Onset TidBIT v2)

Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 41 USGS STATION 4242

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 315	DATE (UTC) NOV 11, 2014	NAV FILE NO.	GO PRO VIDEO NO. 143
USGS STA 4243	SBNMS SITE C12	SBNMS STA	CONSEC. STATION 42	DAY - NIGHT	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5
VIDEO ON BOTTOM		UTC HH MM SS 015921	DPH, m	Lat N ✓ 42 deg 16.498 min	Lon W ✓ 70 deg 18.217 min
SAMPLE TAKEN		UTC HH MM SS (020034)	DPH, m 33	Lat N 42 deg 16.501 min	Lon W 70 deg 18.220 min
VIDEO OFF BOTTOM		UTC HH MM SS 020034	DPH, m	Lat N 42 deg min	Lon W 70 deg min

pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —

STA LOC	316:02:00:25 UTC	SAMPLE TYPES sed grab temp logr sand lance ctd
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	att epifauna	herring eggs	skate	SEABED DESCRIPTION
	Boltenia tunic.	lobster	Suberites spg	storm ripples (y) n
	brachiopod	moon snail	squid	crests: sharp rounded
	bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs (y) n
	juvenile cod	ocean pout	yellow encr. spg	small ripples y, n
	cancer crab	Polymastia spg		sand partial veneer on gravel y, n
	cod	red encr. spg		gravel pavement y, n
	cunner	red hake		
	dk yellow spg	sand dollars		sand lance in water column y, (n)
	Didemnum cols	sand lance adults		sand lance in substrate y, (n)
	dogfish	sand lance juvs		sand lance in sed sample y, (n)
	Eucratea loricata	scallops		size: sml med lg
	Filograna implexa	sculpin		nos:
	finger spg	sea stars		
	flounder	shells & fragments → many broken shells		trawl/dredge marks y, n
	haddock	silver hake		ambient light y, n

Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset TidbiT v2)

Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE =
DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images

No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 42 USGS STATION 4243

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 315	DATE (UTC) NOV 11, 2014	NAV FILE NO.	GO PRO VIDEO NO. 144	
USGS STA 4244	SBNMS SITE C13	SBNMS STA	CONSEC. STATION 43	DAY - NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5	
VIDEO ON BOTTOM	UTC HH MM SS 02 11 49	DPH, m	Lat N 42 deg 17.495 min	Lon W 70 deg 18.309 min	NAV GPS	
SAMPLE TAKEN	UTC HH-MM SS 02 12 14	DPH, m 31	Lat N 42 deg 17.499 min	Lon W 70 deg 18.321 min		
VIDEO OFF BOTTOM	UTC HH MM SS 02 12 14	DPH, m	Lat N 42 deg min	Lon W 70 deg min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
					SAMPLE TYPES sed grab temp logr sand lance (ctd)	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples	(y, n)		
brachiopod	moon snail	squid	crests: sharp	rounded		
bushy bry/hyd	mussels	tunicate, B pilu.	gvl in ripple troughs	(y, n)		
juvenile cod	ocean pout	yellow encr. spg	small ripples	y, n		
cancer crab	Polymastia spg		sand partial veneer on gravel	y, n		
cod	red encr. spg		gravel pavement	y, n		
cunner	red hake			rare		
dk yellow spg	sand dollars		sand lance in water column	(y, n)		
Didemnum cols	sand lance adults		sand lance in substrate	y, (n)		
dogfish	sand lance juvs		sand lance in sed sample	y, n		
Eucratea loricata	scallops		size: sml med lg			
Filograna implexa	sculpin		nos:			
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks	y, n		
haddock	silver hake		ambient light	y, n		
Bottom temp deg C : Surface (-1 m) temp deg C : Difference deg C : (Onset Tidbit v2)						
Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
1						
2						no sample
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 43 USGS STATION 4244

CRUISE: USGS AUK2014066 SBNMS Nov 2014		JD (UTC) 315	DATE (UTC) NOV 11, 2014	NAV FILE NO.	GO PRO VIDEO NO. 145	
USGS STA 4245	SBNMS SITE C13	SBNMS STA = 315 EST	CONSEC. STATION 44	DAY - NIGHT		
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: Nov 10, 2014 1627 EST = 2127 UTC	QUAD 5	
VIDEO ON BOTTOM		DPH, m	Lat N 42 deg 17.504 min	Lon W 70 deg 18.301 min		
SAMPLE TAKEN		DPH, m	Lat N 42 deg 17.508 min	Lon W 70 deg 18.303 min		
VIDEO OFF BOTTOM		DPH, m	Lat N 42 deg min	Lon W 70 deg min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
				SAMPLE TYPES		
				sed grab temp logr		
				sand lance (ctd)		
att epifauna		herring eggs	skate	SEABED DESCRIPTION		
Boltenia tunic.		lobster	Suberites spg	storm ripples	(y) n	
brachiopod		moon snail	squid	crests: (sharp)	rounded	
bushy bry/hyd		mussels	tunicate, B pilu.	gvl in ripple troughs	(y) n	
juvenile cod		ocean pout	yellow encr. spg	small ripples	y. n	
cancer crab		Polymastia spg		sand partial veneer on gravel	y. n	
cod		red encr. spg		gravel pavement	y. n	
cunner		red hake				
dk yellow spg		sand dollars		sand lance in water column	y. (n)	
Didemnum cols		sand lance adults		sand lance in substrate	y. (n)	
dogfish		sand lance juvs		sand lance in sed sample	y. n	
Eucratea loricata		scallops		size: sml med lg		
Filograna implexa		sculpin		nos:		
finger spg		sea stars				
flounder		shells & fragments		trawl/dredge marks	y. n	
haddock		silver hake		ambient light	y. n	
Bottom temp deg C ; Surface (-1 m) temp deg C ; Difference deg C ; (Onset Tidbit v2)						
Photo of sample in grab on deck = # _____ Prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPixels; jpeg images						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014066_sta_img #
1						no sample
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HEIGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)

SIZE OF BOTTOM AREA IMAGED AT 30 in ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA 44 USGS STATION 4245

