

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC)	DATE (UTC) MAY , 2014	NAV FILE NO.	VIDEO TAPE NO.	
USGS STA	SBNMS SITE	SBNMS STA	CONSEC. STATION	DVD NO.	DVD TITLE NO.	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD NAV GPS	
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 —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES sed grab temp logr invert- grab ctd	
V TAPE COUNTER DOWN	START: HH MM SS		END: HH MM SS			
att epifauna		herring eggs	skate	SEABED DESCRIPTION		
Boltonia tunic.		lobster	Suberites spg	storm ripples y, n		
brachiopod		moon snail	squid	gvl in ripple troughs y, n		
bushy bry/hyd		mussels	yellow encr. spg	small ripples y, n		
juvenile cod		ocean pout		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				
Eucratea loricata		scallops				
Filograna implexa		sculpin				
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 Auk2014015_sta_img #
1						
2						
3						
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5						
6						
7						
8						
9						
10						

105683

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 USGS STATION

AUK 2014-015

NOTE

2 parallel lasers 15cm apart

DWN Video is color; saved on DVD and 8mm tape

~~WPN Video is black and white; saved on DVD only~~

GoPro FWD Video is color; downloaded from camera

EDT = UTC - 4 hrs

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 142	DATE (UTC) MAY 22, 2014	NAV FILE NO.	VIDEO TAPE NO.																																																																				
USGS STA 4101	SBNMS SITE S1	SBNMS STA	CONSEC. STATION 1	DVD NO.	DVD TITLE NO.																																																																				
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS 19 52 48 EDT		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 2																																																																				
GPS																																																																									
VIDEO ON BOTTOM	UTC HH MM SS 19 52 48	DPH, m 40	Lat N 42 deg 11.201 min	Lon W 70 deg 20.4186 min																																																																					
SAMPLE TAKEN	UTC HH MM SS 19 57 30	DPH, m	Lat N 42 deg 11.179 min	Lon W 70 deg 20.465 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 —																																																																									
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES																																																																				
V TAPE COUNTER DOWN	START: HH MM SS 00 00 00		END: HH MM SS 00 07 03 23		sed grab temp log invert- grab ctd																																																																				
<table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="2">SEABED DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>att epifauna</td> <td>herring eggs</td> <td>skate</td> <td>storm ripples</td> </tr> <tr> <td>Boltenia tunic.</td> <td>lobster</td> <td>Suberites spg</td> <td>gvl in ripple troughs</td> </tr> <tr> <td>brachiopod</td> <td>moon snail</td> <td>squid</td> <td>small ripples</td> </tr> <tr> <td>bushy bry/hyd</td> <td>mussels</td> <td>yellow encr. spg</td> <td>sand partial veneer on gravel</td> </tr> <tr> <td>juvenile cod</td> <td>ocean pout</td> <td></td> <td>gravel pavement</td> </tr> <tr> <td>cancer crab</td> <td>Polymastia spg</td> <td></td> <td></td> </tr> <tr> <td>cod</td> <td>red encr. spg</td> <td></td> <td></td> </tr> <tr> <td>cunner</td> <td>red hake</td> <td></td> <td></td> </tr> <tr> <td>dk yellow spg</td> <td>sand dollars</td> <td></td> <td>sand lance in water column</td> </tr> <tr> <td>Didemnum cols</td> <td>sand lance adults</td> <td></td> <td>sand lance in substrate</td> </tr> <tr> <td>dogfish</td> <td>sand lance juvs</td> <td></td> <td></td> </tr> <tr> <td>Eucratea loricata</td> <td>scallops</td> <td></td> <td></td> </tr> <tr> <td>Filograna implexa</td> <td>sculpin</td> <td></td> <td></td> </tr> <tr> <td>finger spg</td> <td>sea stars</td> <td></td> <td></td> </tr> <tr> <td>flounder</td> <td>shells & fragments</td> <td></td> <td>trawl/dredge marks</td> </tr> <tr> <td>haddock</td> <td>silver hake</td> <td></td> <td>ambient light</td> </tr> </tbody> </table>								SEABED DESCRIPTION		att epifauna	herring eggs	skate	storm ripples	Boltenia tunic.	lobster	Suberites spg	gvl in ripple troughs	brachiopod	moon snail	squid	small ripples	bushy bry/hyd	mussels	yellow encr. spg	sand partial veneer on gravel	juvenile cod	ocean pout		gravel pavement	cancer crab	Polymastia spg			cod	red encr. spg			cunner	red hake			dk yellow spg	sand dollars		sand lance in water column	Didemnum cols	sand lance adults		sand lance in substrate	dogfish	sand lance juvs			Eucratea loricata	scallops			Filograna implexa	sculpin			finger spg	sea stars			flounder	shells & fragments		trawl/dredge marks	haddock	silver hake		ambient light
		SEABED DESCRIPTION																																																																							
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Bottom temp deg C 5.1 : Surface (-1 m) temp deg C 11.6 : Difference deg C 6.5 : (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 Auk2014015_sta_img #																																																																			
1	1	19 54 01	7796																																																																						
2	2	19 57 10	7797																																																																						
3																																																																									
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5																																																																									
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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 4101

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 142	DATE (UTC) MAY 22, 2014		NAV FILE NO. 1	VIDEO TAPE NO. 1
USGS STA 4102	SBNMS SITE 52	SBNMS STA	CONSEC. STATION 2		DVD NO. 1	DVD TITLE NO. 2
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC		QUAD 2
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 20 25 34	DPH, m 25	Lat N 42 deg 11.3782	Lon W 70 deg 18.3150		
SAMPLE TAKEN	UTC HH MM SS 20 30 34	DPH, m	Lat N 42 deg 11.4156	Lon W 70 deg 18.4044		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg	Lon W 70 deg		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 07 0323		END: HH MM SS 00 13 4407		sed grab temp log invert- grab ctd	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	✓ scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			

Bottom temp deg C 5.2 ; Surface (-1 m) temp deg C 11.2 ; Difference deg C 6.0 ; (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 Auk2014015_sta_img #
1	3	20 26 29	7798			
2	4	29 12	7799			
3						
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 2 USGS STATION 4102

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 142	DATE (UTC) MAY 22, 2014		NAV FILE NO. 1	VIDEO TAPE NO. 1
USGS STA 4103	SBNMS SITE 53	SBNMS STA	CONSEC. STATION 3		DVD NO. 1	DVD TITLE NO. 3
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD Z	NAV GPS
VIDEO ON BOTTOM	UTC HH MM SS 2047	DPH, m	Lat N 42 deg	min	Lon W 70 deg	min
SAMPLE TAKEN	UTC HH MM SS 20	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 —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00134407		END: HH MM SS		sed grab temp logr invert- grab (ctd 3)	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
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 Auk2014015_sta_img #
1	5					
2						
3						
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 3 USGS STATION 4103

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 142	DATE (UTC) MAY 22, 2014	NAV FILE NO. 1	VIDEO TAPE NO. 1	
USGS STA 4104	SBNMS SITE 53	SBNMS STA	CONSEC. STATION 4	DVD NO. 1	DVD TITLE NO. 4	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 2	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 21 12 01	DPH, m 25	Lat N 42 deg 11.557 min	Lon W 70 deg 16.369 min		
SAMPLE TAKEN	UTC HH MM SS 21 17 02	DPH, m	Lat N 42 deg 11.605 min	Lon W 70 deg 16.460 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 —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 15 37 25		END: HH MM SS 00 21 39 05		sed grab temp log invert- grab ctd	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples low y n			
brachiopod	moon snail	squid	gvl in ripple troughs y n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y n			
haddock	silver hake		ambient light y n			
Bottom temp deg C 5.6 : Surface (-1 m) temp deg C 11.1 : Difference deg C 5.5 : (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 Auk2014015_sta_img #
1	5	21 12 12	7800			
2	6	13 16	7801			
3	7	14 07	7802			
4	8	16 02	7803			
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 4 USGS STATION 4104

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 142	DATE (UTC) MAY 22, 2014		NAV FILE NO. 1	VIDEO TAPE NO. 1
USGS STA 4105	SBNMS SITE 54	SBNMS STA	CONSEC. STATION 5		DVD NO. 1	DVD TITLE NO. 5
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC		QUAD 2
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 21 31 10	DPH, m 28	Lat N 42 deg 11.721 min	Lon W 70 deg 14.374 min		
SAMPLE TAKEN	UTC HH MM SS 21 35 56	DPH, m	Lat N 42 deg 11.751 min	Lon W 70 deg 14.438 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 —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 002139		END: HH MM SS 60 27 28		sed grab temp log invert- grab ctd	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y n			
brachiopod	moon snail	squid	gvl in ripple troughs y n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y n			
juvenile cod	ocean pout	grapefish	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					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y n			
haddock	silver hake		ambient light y n			
Bottom temp deg C 5.2 : Surface (-1 m) temp deg C 10.7 : Difference deg C 5.5 : (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 Auk2014015_sta_img #
1	9	213206	7804			
2	10	3252	7805			
3	11	3350	7806			
4	12	3535	7807			
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 5 USGS STATION 4105

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 142	DATE (UTC) MAY 22, 2014		NAV FILE NO. 1	VIDEO TAPE NO. 1
USGS STA 4106	SBNMS SITE 55	SBNMS STA	CONSEC. STATION 6		DVD NO. 1	DVD TITLE NO. 6
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 3	NAV GPS
VIDEO ON BOTTOM	UTC HH MM SS 214738	DPH, m 36	Lat N 42 deg 11.837 min	Lon W 70 deg 12.468 min		
SAMPLE TAKEN	UTC HH MM SS 215220	DPH, m	Lat N 42 deg 11.847 min	Lon W 70 deg 12.524 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 —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES sed grab temp log	
V TAPE COUNTER DOWN	START: HH MM SS 002728		END: HH MM SS 003319		invert- grab ctd 6	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y. n			
brachiopod	moon snail	squid	gvl in ripple troughs y. n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y. n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y. n			
haddock	✓ silver hake		ambient light y. n			
Bottom temp deg C 5.1 : Surface (-1 m) temp deg C 10.4 : Difference deg C 5.3 : (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 Auk2014015_sta_img #
1	13	214802	7808			
2	14	4840	7809			
3	15	4931	7810			
4	16	5004	7811			
5	17	5112	7812			
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 6 USGS STATION 4106

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 172	DATE (UTC) MAY 22, 2014	NAV FILE NO. 1	VIDEO TAPE NO. 1	
USGS STA 4107	SBNMS SITE 56	SBNMS STA	CONSEC. STATION 7	DVD NO. 1	DVD TITLE NO. 7	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 3	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 22 06 09	DPH, m 42	Lat N 42 deg 12.021 min	Lon W 70 deg 10.422 min		
SAMPLE TAKEN	UTC HH MM SS 22 10 52	DPH, m	Lat N 42 deg 12.044 min	Lon W 70 deg 10.473 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 —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 33 19		END: HH MM SS 00 39 19		sed grab temp log invert- grab ctd 7	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 4.6 : Surface (-1 m) temp deg C 10.9 : Difference deg C 6.3 : (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 Auk2014015_sta_img #
1	18	22 06 29	7813			
2	19	07 40	7814			
3	20	08 54	7815			
4	21	09 20	7816			
5	22	10 17	7817			
6	23	10 35	7818			
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 7 USGS STATION 4107

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 142	DATE (UTC) MAY 22, 2014	NAV FILE NO. 1	VIDEO TAPE NO. 1	
USGS STA 4108	SBNMS SITE 57	SBNMS STA	CONSEC. STATION 8	DVD NO. 1	DVD TITLE NO. 8	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 6	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 22 24 03	DPH, m 45	Lat N 42 deg 12.1305 min	Lon W 70 deg 08.4665 min		
SAMPLE TAKEN	UTC HH MM SS 22 30 26	DPH, m	Lat N 42 deg 12.1520 min	Lon W 70 deg 08.5168 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 —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES sed grab temp log	
V TAPE COUNTER DOWN	START: HH MM SS 00 39 19		END: HH MM SS 00 47 04		invert- grab cld	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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 coils	sand lance adults		sand lance in substrate y, n			
dogfish	sand lance juvs					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 4.4 : Surface (-1 m) temp deg C 10.1 : Difference deg C 5.7 : (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 Auk2014015_sta_img #
1	24	22 24 20	7819			
2	25	25 10	7820			
3	26	26 33	7821			
4	27	28 05	7822			
5	28	30 07	7823			
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 8 USGS STATION 4108

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 142	DATE (UTC) MAY 22, 2014	NAV FILE NO. 1	VIDEO TAPE NO. 1	
USGS STA 4109	SBNMS SITE 58	SBNMS STA	CONSEC. STATION 9	DVD NO. 1	DVD TITLE NO. 9	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 3	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 22 42 12	DPH, m 45	Lat N 42 deg 11.0878 min	Lon W 70 deg 08.200 min		
SAMPLE TAKEN	UTC HH MM SS 22 47 35	DPH, m	Lat N 42 deg 11.107 min	Lon W 70 deg 08.244 min		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg 11.073 min	Lon W 70 deg 08.2438 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 47 04		END: HH MM SS 00 53 40		sed grab temp log invert- grab ctd	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples (y), n			
juvenile cod	ocean pout		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					
Eucratea loricata	✓ scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 4.4 ; Surface (-1 m) temp deg C 10.1 ; Difference deg C 5.7 ; (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 Auk2014015_sta_img #
1	29	22 43 01	7824			
2	30	43 44	7825			
3		44 34	7826			
4	32	47 19	7827			
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 9 USGS STATION 4109

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 142	DATE (UTC) MAY 22, 2014		NAV FILE NO. 1	VIDEO TAPE NO. 1
USGS STA 4110	SBNMS SITE S9	SBNMS STA	CONSEC. STATION 10		DVD NO. 1	DVD TITLE NO. 10
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 3	NAV GPS
VIDEO ON BOTTOM	UTC HH MM SS 225902	DPH, m 42	Lat N 42 deg 11.033 min	Lon W 70 deg 10.227 min		
SAMPLE TAKEN	UTC HH MM SS 230326	DPH, m	Lat N 42 deg 11.067 min	Lon W 70 deg 10.251 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 —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 005340		END: HH MM SS to end		sed grab temp log invert- grab ctd 10	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallop					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	✓ silver hake		ambient light y, n			
Bottom temp deg C 4.7 : Surface (-1 m) temp deg C 11.0 : Difference deg C 6.3 : (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 Auk2014015_sta_img #
1	33	225923	7828			
2		230015	7829			
3		0133	7830			
4	36	0249	7831			
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 4110

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 142	DATE (UTC) MAY 22, 2014	NAV FILE NO. 1	VIDEO TAPE NO. 2	
USGS STA 4111	SBNMS SITE 512	SBNMS STA = 142	CONSEC. STATION 11	DVD NO. 2	DVD TITLE NO. 1	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 2 60 PRO FWD	
VIDEO ON BOTTOM		UTC HH MM SS 23 4638	DPH, m 27	Lat N 42 deg 10.553 min	Lon W 70 deg 16.238 min	
SAMPLE TAKEN		UTC HH MM SS 23 5138	DPH, m	Lat N 42 deg 10.567 min	Lon W 70 deg 16.137 min	
VIDEO OFF BOTTOM		UTC HH MM SS	DPH, m	Lat N 42 deg 10.5673 min	Lon W 70 deg 16.1395 min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD		START: HH MM SS		END: HH MM SS		
V TAPE COUNTER DOWN		START: HH MM SS 00 00 00		END: HH MM SS 00 05 50		
				SAMPLE TYPES sed grab temp log invert- grab ctd/l		
att epifauna		herring eggs	skate	SEABED DESCRIPTION		
Boltenia tunic.		lobster	Suberites spg	storm ripples y, n		
brachiopod		moon snail	squid	gvl in ripple troughs y, n		
bushy bry/hyd		mussels	yellow encr. spg	small ripples y, n		
juvenile cod		ocean pout		sand partial veneer on gravel y, n		
cancer crab		Polymastia spg	truncates	gravel pavement y, n		
cod		red encr. spg	in rip trough			
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				
Eucratea loricata		scallops				
Filograna implexa		sculpin				
finger spg		sea stars				
flounder		shells & fragments		trawl/dredge marks y, n		
haddock		silver hake		ambient light y, n		
Bottom temp deg C 6.1 : Surface (-1 m) temp deg C 11.6 : Difference deg C 5.5 : (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 Auk2014015_sta_img #
1	37	234701	7832			
2		4740	7833			
3		4823	7834			
4		4915	7835			
5	41	5101	7836			
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 11 USGS STATION 4111

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23, 2014	NAV FILE NO. 1	VIDEO TAPE NO. 2	
USGS STA 4112	SBNMS SITE 513	SBNMS STA 142 EDT	CONSEC. STATION 12	DVD NO. 2	DVD TITLE NO. 2	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 2	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 00 0640	DPH, m 25	Lat N 42 deg 10.392 min	Lon W 70 deg 18.359 min		
SAMPLE TAKEN	UTC HH MM SS 00 1139	DPH, m	Lat N 42 deg 10.392 min	Lon W 70 deg 18.337 min		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg 10.392 min	Lon W 70 deg 18.338 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 0550		END: HH MM SS 00 1143		sed grab temp log invert- grab ctd 12	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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		SL on 6000 fnd vid. (1 in grab)			
Eucratea loricata	scallops		hybrids			
Filograna implexa	✓ sculpin		orange red in troughs			
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 6.3 : Surface (-1 m) temp deg C 11.9 : Difference deg C 5.6 : (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 Auk2014015_sta_img #
1	42	000727	7837			
2		0804	7838			
3		0817	7839			
4		0838	7840			
5		0905	7841			
6		0929	7842			
7		1010	7843			
8		1038	7844			
9	50	1113	7845			
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 12 USGS STATION 4112

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23, 2014	NAV FILE NO. 1	VIDEO TAPE NO. 2
USGS STA 4113	SBNMS SITE 514	SBNMS STA	CONSEC. STATION 13	DVD NO. 2	DVD TITLE NO. 3
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 2
				NAV GPS	
VIDEO ON BOTTOM	UTC HH MM SS 00 27 13	DPH, m 32	Lat N 42 deg 10.246 min	Lon W 70 deg 20.345 min	
SAMPLE TAKEN	UTC HH MM SS 00 33 04	DPH, m	Lat N 42 deg 10.257 min	Lon W 70 deg 20.351 min	
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg 10.2563 min	Lon W 70 deg 20.3523 min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —					
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES sed grab temp log invert- grab ctd 13
V TAPE COUNTER DOWN	START: HH MM SS 00 11 43		END: HH MM SS 00 18 48		
att epifauna	herring eggs	skate	SEABED DESCRIPTION		
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n		
brachiopod	moon snail	squid	gvl in ripple troughs y, n		
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n		
juvenile cod	ocean pout		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				
Eucratea loricata	scallops				
Filograna implexa	✓ sculpin				
finger spg	sea stars				
flounder	✓ shells & fragments		trawl/dredge marks y, n		
haddock	silver hake		ambient light y, n		

Bottom temp deg C 5.1 : Surface (-1 m) temp deg C 11.9 : Difference deg C 6.8 : (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 Auk2014015_sta_img #
1	51	00 27 51	7846			
2		29 19	7847			
3		30 12	7848			
4	54	32 37	7849			
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 13 USGS STATION 4113

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23, 2014		NAV FILE NO. 1	VIDEO TAPE NO. 2
USGS STA 4114	SBNMS SITE S1	SBNMS STA	CONSEC. STATION 14		DVD NO. 2	DVD TITLE NO. 4
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 2	NAV GPS
VIDEO ON BOTTOM	UTC HH MM SS 00 45 26	DPH, m 40	Lat N 42 deg 11.236 min	Lon W 70 deg 20.357 min		
SAMPLE TAKEN	UTC HH MM SS (00 50 49)	DPH, m	Lat N 42 deg 11.272 min	Lon W 70 deg 20.338 min		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg 12.720 min	Lon W 70 deg 20.395 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 18 48		END: HH MM SS 00 25 19		sed grab (x) temp log (x) invert- grab (x) ctd (x)	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples <i>few old</i> (y) n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout	✓ <i>juv fish at 6m ss</i>	sand partial veneer on gravel y, n			
cancer crab	Polymastia spg		gravel pavement y, n			
cod	red encr. spg		<i>no ripples</i>			
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					
Eucratea loricata	✓ scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks (y) n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 4.4 : Surface (-1 m) temp deg C 10.9 : Difference deg C 6.5 : (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 Auk2014015_sta_img #
1	95	00 46 12	7850			
2		47 18	7851			
3	57	47 56			<i>no strobe</i>	
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 14 USGS STATION 4114

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23, 2014		NAV FILE NO. 1	VIDEO TAPE NO. 2																																																																																																																
USGS STA 4115	SBNMS SITE 52	SBNMS STA	CONSEC. STATION 15		DVD NO. 2	DVD TITLE NO. 5																																																																																																																
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 2	NAV GPS																																																																																																																
VIDEO ON BOTTOM	UTC HH MM SS 01 0537	DPH, m 25	Lat N 42 deg 11.3885 min	Lon W 70 deg 18.281 min																																																																																																																		
SAMPLE TAKEN	UTC HH MM SS 01 1056	DPH, m	Lat N 42 deg 11.421 min	Lon W 70 deg 18.258 min																																																																																																																		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg .4211 min	Lon W 70 deg .2594 min																																																																																																																		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —																																																																																																																						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES sed grab temp log																																																																																																																	
V TAPE COUNTER DOWN	START: HH MM SS 00 2519		END: HH MM SS 00 3126		invert- grab ctd 15																																																																																																																	
<table border="1"> <thead> <tr> <th></th> <th>att epifauna</th> <th>herring eggs</th> <th>skate</th> <th colspan="3">SEABED DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td>Boltenia tunic.</td> <td>lobster</td> <td>Suberites spg</td> <td>storm ripples</td> <td>y.</td> <td>n</td> </tr> <tr> <td></td> <td>brachiopod</td> <td>moon snail</td> <td>squid</td> <td>gvl in ripple troughs</td> <td>y.</td> <td>n</td> </tr> <tr> <td></td> <td>bushy bry/hyd</td> <td>mussels</td> <td>yellow encr. spg</td> <td>small ripples</td> <td>y.</td> <td>n</td> </tr> <tr> <td></td> <td>juvenile cod</td> <td>ocean pout</td> <td></td> <td>sand partial veneer on gravel</td> <td>y.</td> <td>n</td> </tr> <tr> <td></td> <td>cancer crab</td> <td>Polymastia spg</td> <td></td> <td>gravel pavement</td> <td>y.</td> <td>n</td> </tr> <tr> <td></td> <td>cod</td> <td>red encr. spg</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>cunner</td> <td>red hake</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>dk yellow spg</td> <td>✓ sand dollars</td> <td></td> <td>sand lance in water column</td> <td>y.</td> <td>p</td> </tr> <tr> <td></td> <td>Didemnum coils</td> <td>sand lance adults</td> <td></td> <td>sand lance in substrate</td> <td>y.</td> <td>n</td> </tr> <tr> <td></td> <td>dogfish</td> <td>sand lance juvs</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Eucratea loricata</td> <td>✓ scallops</td> <td></td> <td>orange "red" in troughs</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Filograna implexa</td> <td>✓ sculpin many</td> <td></td> <td>hydnoids</td> <td></td> <td></td> </tr> <tr> <td></td> <td>finger spg</td> <td>sea stars</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>flounder</td> <td>shells & fragments</td> <td></td> <td>trawl/dredge marks</td> <td>y.</td> <td>n</td> </tr> <tr> <td></td> <td>haddock</td> <td>silver hake</td> <td></td> <td>ambient light</td> <td>y.</td> <td>n</td> </tr> </tbody> </table>								att epifauna	herring eggs	skate	SEABED DESCRIPTION				Boltenia tunic.	lobster	Suberites spg	storm ripples	y.	n		brachiopod	moon snail	squid	gvl in ripple troughs	y.	n		bushy bry/hyd	mussels	yellow encr. spg	small ripples	y.	n		juvenile cod	ocean pout		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.	p		Didemnum coils	sand lance adults		sand lance in substrate	y.	n		dogfish	sand lance juvs						Eucratea loricata	✓ scallops		orange "red" in troughs				Filograna implexa	✓ sculpin many		hydnoids				finger spg	sea stars						flounder	shells & fragments		trawl/dredge marks	y.	n		haddock	silver hake		ambient light	y.	n
	att epifauna	herring eggs	skate	SEABED DESCRIPTION																																																																																																																		
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	haddock	silver hake		ambient light	y.	n																																																																																																																
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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 4115

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23, 2014		NAV FILE NO. 1	VIDEO TAPE NO. 2
USGS STA 4116	SBNMS SITE 53	SBNMS STA	CONSEC. STATION 16		DVD NO. 2	DVD TITLE NO. 6
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC		QUAD 2
						NAV GPS
VIDEO ON BOTTOM	UTC HH MM SS 01 24 53	DPH, m 25	Lat N 42 deg 11.5192	min 520	Lon W 70 deg 16.3441	min 342
SAMPLE TAKEN	UTC HH MM SS 01 30 05	DPH, m	Lat N 42 deg 11.567	min	Lon W 70 deg 16.264	min
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg 11.5672	min	Lon W 70 deg 16.266	min
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 31 26		END: HH MM SS 00 37 26		sed grab temp logr invert- grab cld 16	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples old y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops					
Filograna implexa	✓ sculpin many					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 5.7 : Surface (-1 m) temp deg C 11.2 : Difference deg C 5.5 : (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 Auk2014015_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 16 USGS STATION 4116

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23, 2014		NAV FILE NO. 1	VIDEO TAPE NO. 2
USGS STA 4117	SBNMS SITE 54	SBNMS STA	CONSEC. STATION 17		DVD NO. 2	DVD TITLE NO. 7
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC		QUAD 2
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 01 43 26	DPH, m 28	Lat N 42 deg 11.704 min	Lon W 70 deg 14.336 min		
SAMPLE TAKEN	UTC HH MM SS 01 48 45	DPH, m	Lat N 42 deg 11.743 min	Lon W 70 deg 14.215 min		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg 11.743 min	Lon W 70 deg 14.215 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 37 26		END: HH MM SS 00 43 30		sed grab temp logr invert- grab ctd 17	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 5.5 : Surface (-1 m) temp deg C 11.0 : Difference deg C 5.5 : (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 Auk2014015_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 4117

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23, 2014	NAV FILE NO. 1	VIDEO TAPE NO. 2	
USGS STA 4118	SBNMS SITE 55	SBNMS STA	CONSEC. STATION 18	DVD NO. 2	DVD TITLE NO. 8	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 3	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 020246	DPH, m 35	Lat N 42 deg 11.830 min	Lon W 70 deg 12.377 min		
SAMPLE TAKEN	UTC HH MM SS (020750)	DPH, m	Lat N 42 deg 11.838 min	Lon W 70 deg 12.317 min		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg 11.8379 min	Lon W 70 deg 12.3194 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 43 30		END: HH MM SS 00 49 50		sed grab temp log invert- grab ctd 18	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	✓ scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	✓ silver hake		ambient light y, n			
Bottom temp deg C 5.2 ; Surface (-1 m) temp deg C 11.1 ; Difference deg C 5.9 ; (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 Auk2014015_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 4118

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23, 2014	NAV FILE NO. 1	VIDEO TAPE NO. 2
USGS STA 4119	SBNMS SITE 56	SBNMS STA	CONSEC. STATION 19	DVD NO. 3	DVD TITLE NO. 1
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 3
				NAV GPS	
VIDEO ON BOTTOM	UTC HH MM SS 022133	DPH, m 40	Lat N 42 deg 11.991 min	Lon W 70 deg 10.445 min	
SAMPLE TAKEN	UTC HH MM SS 022630	DPH, m	Lat N 42 deg 11.956 min	Lon W 70 deg 10.358 min	
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg .9567 min	Lon W 70 deg .3611 min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —					
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES
V TAPE COUNTER DOWN	START: HH MM SS 004950		END: HH MM SS end		sed grab temp logr invert- grab ctd 19
att epifauna	herring eggs	skate	SEABED DESCRIPTION		
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n		
brachiopod	moon snail	squid	gvl in ripple troughs y, n		
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n		
juvenile cod	ocean pout		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				
Eucratea loricata	scallops				
Filograna implexa	sculpin				
finger spg	sea stars				
flounder	shells & fragments		trawl/dredge marks y, n		
haddock	silver hake		ambient light y, n		

Bottom temp deg C 5.0 ; Surface (-1 m) temp deg C 7.2 ; Difference deg C 6.2 ; (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 Auk2014015_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 4119

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23, 2014	NAV FILE NO. 1	VIDEO TAPE NO. 3
USGS STA 4120	SBNMS SITE 57	SBNMS STA	CONSEC. STATION 20	DVD NO. 3	DVD TITLE NO. 2
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 6
				NAV GPS	
VIDEO ON BOTTOM	UTC HH MM SS 023846	DPH, m 43	Lat N 42 deg 12.175 min	Lon W 70 deg 8.521 min	
SAMPLE TAKEN	UTC HH MM SS 024411	DPH, m	Lat N 42 deg 12.177 min	Lon W 70 deg 08.384 min	
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg 12.172 min	Lon W 70 deg 03.878 min	

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

V TAPE COUNTER FORWARD	START: HH MM SS	END: HH MM SS	SAMPLE TYPES
V TAPE COUNTER DOWN	START: HH MM SS 00 00 00	END: HH MM SS 00 06 52	sed grab temp logr invert- grab ctd

att epifauna	herring eggs	skate	SEABED DESCRIPTION
Boltenia tunic.	lobster	Suberites spg	storm ripples (y) n
brachiopod	moon snail	squid	gvl in ripple troughs y, (n)
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n
juvenile cod	ocean pout		sand partial veneer on gravel y, n
cancer crab	Polymastia spg	✓ haddock 3.04	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		
Eucrateria loricata	✓ scallops		
Filograna implexa	sculpin		
finger spg	sea stars		
flounder	✓ shells & fragments		trawl/dredge marks y, n
haddock	silver hake		ambient light y, n

Bottom temp deg C 4.7 ; Surface (-1 m) temp deg C 10.6 ; Difference deg C 5.9 ; (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 Auk2014015_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 4120

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23, 2014	NAV FILE NO. 1	VIDEO TAPE NO. 3	
USGS STA 4121	SBNMS SITE 58	SBNMS STA	CONSEC. STATION 21	DVD NO. 3	DVD TITLE NO. 3	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 3	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 02 55 19	DPH, m 42	Lat N 42 deg 11.213 min	Lon W 70 deg 8.308 min		
SAMPLE TAKEN	UTC HH MM SS 03 00 24	DPH, m	Lat N 42 deg 11.179 min	Lon W 70 deg 8.203 min		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg 1.795 min	Lon W 70 deg 1.2050 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 06 52		END: HH MM SS 00 13 09		sed grab (temp log) invert- grab (ctd 2)	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples (y, n)			
juvenile cod	ocean pout	hagfish	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					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 4.8 : Surface (-1 m) temp deg C 11.2 : Difference deg C 6.4 : (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 Auk2014015_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 4121

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23, 2014	NAV FILE NO. 1	VIDEO TAPE NO. 3	
USGS STA 4122	SBNMS SITE 59	SBNMS STA	CONSEC. STATION 22	DVD NO. 3	DVD TITLE NO. 4	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 3	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 03 1636	DPH, m 40	Lat N 42 deg 10.994 min	Lon W 70 deg 10.336 min		
SAMPLE TAKEN	UTC HH-MM-SS 03 2129	DPH, m	Lat N 42 deg 10.960 min	Lon W 70 deg 10.294 min		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg 10.963 min	Lon W 70 deg 10.295 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 1309		END: HH MM SS 00 1921		sed grab temp log invert- grab ctd 2	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	✓ scallops					
Filograna implexa	✓ sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	✓ silver hake		ambient light y, n			
Bottom temp deg C 5.2 ; Surface (-1 m) temp deg C 11.1 ; Difference deg C 5.9 ; (Onset Tidbit v2)						
Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = NO 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 Auk2014015_sta_img #
1						
2						
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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 22 USGS STATION 4122

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23, 2014	NAV FILE NO. 1	VIDEO TAPE NO. 3	
USGS STA 4123	SBNMS SITE 511	SBNMS STA	CONSEC. STATION 23	DVD NO. 3	DVD TITLE NO. 5	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 2	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 03 4502	DPH, m 26	Lat N 42 deg 10.699 min	Lon W 70 deg 14.347 min		
SAMPLE TAKEN	UTC HH MM SS 03 4959	DPH, m	Lat N 42 deg 10.701 min	Lon W 70 deg 14.323 min		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg 10.703 min	Lon W 70 deg 13.245 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES sed grab temp log invert- grab ctd	
V TAPE COUNTER DOWN	START: HH MM SS 00 19 21		END: HH MM SS 00 25 03			
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 5.8 : Surface (-1 m) temp deg C 11.6 : Difference deg C 5.8 : (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 Auk2014015_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 4123

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23 ^{27 May EDT} , 2014	NAV FILE NO. 1	VIDEO TAPE NO. 3	
USGS STA 4124	SBNMS SITE 512	SBNMS STA	CONSEC. STATION 24	DVD NO. 3	DVD TITLE NO. 6	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 2	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 04 0507	DPH, m 24 ✓	Lat N 42 deg 10.603 min	Lon W 70 deg 16.232 min		
SAMPLE TAKEN	UTC HH MM SS (64 1032)	DPH, m	Lat N 42 deg 10.644 min	Lon W 70 deg 16.225 min		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg 10.643 min	Lon W 70 deg 16.226 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 002503		END: HH MM SS 003105		sed grab (x) temp log (x) invert- grab (x) ctd (x) ²⁴	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples	(y, n)		
brachiopod	moon snail	squid	gvl in ripple troughs	(y, n)		
bushy bry/hyd	mussels	yellow encr. spg	small ripples	(y, n)		
juvenile cod	ocean pout		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 coils	sand lance adults		sand lance in substrate	(y, n)		
dogfish	sand lance juvs					
Eucratea loricata	scallops					
Filograna implexa	✓ sculpin					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks	(y, n)		
haddock	silver hake		ambient light	(y, n)		
Bottom temp deg C 6.3 : Surface (-1 m) temp deg C 11.7 : Difference deg C 5.4 : (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 Auk2014015_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 24 USGS STATION 4124

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23, 2014	NAV FILE NO. 1	VIDEO TAPE NO. 3	
USGS STA 4125	SBNMS SITE 513	SBNMS STA	CONSEC. STATION 25	DVD NO. 3	DVD TITLE NO. 7	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 2	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS (04 23 54)	DPH, m 23	Lat N 42 deg 10.427 min	Lon W 70 deg 18.366 min		
SAMPLE TAKEN	UTC HH MM SS 04 32 52	DPH, m	Lat N 42 deg 10.490 min	Lon W 70 deg 18.405 min		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg .4896 min	Lon W 70 deg .4045 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 003105		END: HH MM SS 004104		sed grab temp logr invert- grab cid	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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		many fine			
Eucratea loricata	scallops		cdm			
Filograna implexa	sculpin		56m GPR fwd video			
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 5.6 : Surface (-1 m) temp deg C 11.5 : Difference deg C 5.9 : (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 Smpl						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014015_sta_img #
1						
2						
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8						
9						
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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 4125

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23, 2014		NAV FILE NO. 1	VIDEO TAPE NO. 3
USGS STA 4126	SBNMS SITE 513	SBNMS STA	CONSEC. STATION 26		DVD NO. 3	DVD TITLE NO. 8
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC		QUAD 2
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 04 41 09	DPH, m 23	Lat N 42 deg 10.4794	Lon W 70 deg 18.4090		
SAMPLE TAKEN	UTC HH MM SS 04 41 29	DPH, m	Lat N 42 deg 10.485	Lon W 70 deg 18.400		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg 10.4843	Lon W 70 deg 18.4032		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES sed grab temp log	
V TAPE COUNTER DOWN	START: HH MM SS 00 41 04		END: HH MM SS 00 42 08		invert- grab ctd	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops		56 m 6000 furl whaler			
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C (7.7) ; Surface (-1 m) temp deg C 11.5 ; 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 Auk2014015_sta_img #
1		had data; not enough time on seabed				
2						
3						
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 26 USGS STATION 4126

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 143	DATE (UTC) MAY 23, 2014		NAV FILE NO. 1	VIDEO TAPE NO. 3
USGS STA 4127	SBNMS SITE 513	SBNMS STA	CONSEC. STATION 27		DVD NO. 3	DVD TITLE NO. 9
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC		QUAD 2
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 04 50 43	DPH, m 23	Lat N .5526 42 deg 10.553 min		Lon W .4494 70 deg 18.449 min	
SAMPLE TAKEN	UTC HH MM SS (04 51 28)	DPH, m	Lat N .5558 42 deg 10.558 min		Lon W .4453 70 deg 18.453 min	
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N .5579 42 deg min		Lon W .4524 70 deg min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 42 08		END: HH MM SS 00 42 + 1st tape		sed grab (temp log)	
				invert- grab		cid
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops		1 1/2 sec grab			
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 1.4 ; Surface (-1 m) temp deg C 11.5 ; 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 Auk2014015_sta_img #
1		→ had data; not enough time on seabed				no CTD
2						NO GPR
3						VIDEO
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 27 USGS STATION 4127

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 149	DATE (UTC) = 29 May MAY 29, 2014	NAV FILE NO. 2	VIDEO TAPE NO. 4	
USGS STA 4128	SBNMS SITE NONE	SBNMS STA = 149 EDT	CONSEC. STATION	DVD NO. 4	DVD TITLE NO. 1	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS 10 56 55 EDT		Sunset: May 19, 2014 2006 EDT = 0006 UTC		
QUAD		NAV GPS				
VIDEO ON BOTTOM	UTC HH MM SS 14 56 55	DPH, m 22	Lat N 42 deg 13.099 min	Lon W 70 deg 40.9448 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 15 01 16	DPH, m	Lat N 42 deg 13.033 min	Lon W 70 deg 41.0102 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES sed grab (temp log) invert- grab (ctd) 27	
V TAPE COUNTER DOWN	00 00 00		00 05 23			
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops		(ch/ b/d w/ calc algae no smpl attempt)			
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 8.0 : Surface (-1 m) temp deg C 12.8 : Difference deg C 4.8 : (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 Auk2014015_sta_img #
1	1	14 59 48	7858			
2						
3						
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 USGS STATION 4128

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 149	DATE (UTC) MAY 29, 2014		NAV FILE NO. 2	VIDEO TAPE NO. 4
USGS STA 4129	SBNMS SITE C8	SBNMS STA	CONSEC. STATION 28		DVD NO. 4	DVD TITLE NO. 2
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 5	NAV GPS
VIDEO ON BOTTOM	UTC HH MM SS 20 16 54	DPH, m 27	Lat N 42 deg 12.456 min	Lon W 70 deg 17.429 min		
SAMPLE TAKEN	UTC HH MM SS 20 18 31	DPH, m	Lat N 42 deg 12.465 min	Lon W 70 deg 17.416 min		
VIDEO OFF BOTTOM	UTC HH MM SS 20 23 05	DPH, m	Lat N 42 deg 12.499 min	Lon W 70 deg 17.391 min		
pre-tripped —; no smpl attempted —; jaws partly open — washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 05 23		END: HH MM SS 00 12 16		sed grab (temp log) invert- grab (ctd)	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops		sampled west of storm ripples			
Filograna implexa	sculpin		drifted into soil ripples			
finger spg	sea stars		NO SAMPLE			
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 4.4; Surface (-1 m) temp deg C 11.6; Difference deg C 6.8; (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 sample						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014015_sta_img #
1						
2						
3						
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 28 USGS STATION 4129

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 149	DATE (UTC) MAY 29, 2014	NAV FILE NO. 2	VIDEO TAPE NO. 4	
USGS STA 4130	SBNMS SITE C6	SBNMS STA	CONSEC. STATION 29	DVD NO. 4	DVD TITLE NO. 3	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 5	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS (20 3647)	DPH, m 25	Lat N 42 deg 13.670 min	Lon W 70 deg 16.417 min		
SAMPLE TAKEN	UTC HH MM SS 203727	DPH, m	Lat N 42 deg 13.672 min	Lon W 70 deg 16.410 min		
VIDEO OFF BOTTOM	UTC HH MM SS 20 4151	DPH, m	Lat N 42 deg 13.695 min	Lon W 70 deg 16.372 min		
(pre-tripped <input checked="" type="checkbox"/> ; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES sed grab (temp log) invert- grab (ctd) 29	
V TAPE COUNTER DOWN	START: HH MM SS 00 1216		END: HH MM SS 00 1754			
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 4.8 : Surface (-1 m) temp deg C 12.1 : Difference deg C 7.3 : (Onset TidbiT v2)						
Photo of sample in grab on deck = # Prelim. visual texture from VIDEO or SAMPLE = NO 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 Auk2014015_sta_img #
1	2	203804	7859			
2	3	4108	7860			
3						
4						
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 29 USGS STATION 4130

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 149	DATE (UTC) MAY 29, 2014	NAV FILE NO. 2	VIDEO TAPE NO. 4	
USGS STA 4131	SBNMS SITE C10	SBNMS STA	CONSEC. STATION 30	DVD NO. 4	DVD TITLE NO. 4	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 5	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS (20 5356)	DPH, m 31.2	Lat N 42 deg 14.531 min	Lon W 70 deg 17.815 min		
SAMPLE TAKEN	UTC HH MM SS 20 5426	DPH, m	Lat N 42 deg 14.534 min	Lon W 70 deg 17.810 min		
VIDEO OFF BOTTOM	UTC HH MM SS 20 5921	DPH, m	Lat N 42 deg 14.560 min	Lon W 70 deg 17.770 min		
pre-tripped — no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES sed grab temp log invert- grab ctd	
V TAPE COUNTER DOWN	START: HH MM SS 00 1754		END: HH MM SS 00 2402			
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 4.5 : Surface (-1 m) temp deg C 12.1 : Difference deg C 7.6 : (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 smpl						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description ✓ = in photo	Filename Auk2014015_sta_img #
1	4	205732	7861			
2	5	5915	7862			
3						
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 30 USGS STATION 4131

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 149	DATE (UTC) MAY 29, 2014		NAV FILE NO. 2	VIDEO TAPE NO. 4
USGS STA 4132	SBNMS SITE C4	SBNMS STA	CONSEC. STATION 31		DVD NO. 4	DVD TITLE NO. 5
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 5	NAV GPS
VIDEO ON BOTTOM	UTC HH MM SS 211425	DPH, m 28.26	Lat N 42 deg 15.732 min	Lon W 70 deg 16.605 min		
SAMPLE TAKEN	UTC HH MM SS 211530	DPH, m	Lat N 42 deg 15.732 min	Lon W 70 deg 16.591 min		
VIDEO OFF BOTTOM	UTC HH MM SS 211929	DPH, m	Lat N 42 deg 15.738 min	Lon W 70 deg 16.554 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 24 02		END: HH MM SS 00 30 01		sed grab temp log invert- grab 31 ctd	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 4.7 : Surface (-1 m) temp deg C 11.4 : Difference deg C 6.7 : (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 sample						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description ✓ = in photo	Filename Auk2014015_sta_img #
1	6	211739	7863			
2	7	1840	7864			
3						
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 31 USGS STATION 4132

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 149	DATE (UTC) MAY 29, 2014		NAV FILE NO. 2	VIDEO TAPE NO. 4
USGS STA 4133	SBNMS SITE C12	SBNMS STA	CONSEC. STATION 32		DVD NO. 4	DVD TITLE NO. 6
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 5	NAV GPS
VIDEO ON BOTTOM	UTC HH MM SS 21 4500	DPH, m 34	Lat N 42 deg 16.4681	Lon W 70 deg 18.2270		
SAMPLE TAKEN	UTC HH MM SS	DPH, m	Lat N 42 deg	Lon W 70 deg		
VIDEO OFF BOTTOM	UTC HH MM SS 21 50 10	DPH, m	Lat N 42 deg 16.513	Lon W 70 deg 18.201		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 30 01		END: HH MM SS 00 35 49		sed grab (emp logr) invert- grab (ctd)	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	✓ Suberites spg	storm ripples y, (n)			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		sand partial veneer on gravel y, n			
cancer crab	Polymastia spg		gravel pavement y, n			
cod	red encr. spg		gravelly sand, no rips			
cunner	red hake		trabuted?			
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					
Eucratea loricata	scallops					
Filograna implexa	✓ sculpin		+ld/argd			
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 4.5 ; Surface (-1 m) temp deg C 7.7 ; Difference deg C 7.2 ; (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 smple						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description ✓ = in photo	Filename Auk2014015_sta_img #
1	8	214550	7865			
2	9	4903	7866			
3						
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 32 USGS STATION 4133

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 149	DATE (UTC) MAY 29, 2014		NAV FILE NO. 2	VIDEO TAPE NO. 4
USGS STA 4134	SBNMS SITE C2	SBNMS STA	CONSEC. STATION 33		DVD NO. 4	DVD TITLE NO. 7
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC		QUAD 5
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 22 0510	DPH, m 32	Lat N 42 deg 17.620 min		Lon W 70 deg 16.959 min	
SAMPLE TAKEN	UTC HH MM SS 22 0535	DPH, m	Lat N 42 deg min		Lon W 70 deg min	
VIDEO OFF BOTTOM	UTC HH MM SS 22 1019	DPH, m	Lat N 42 deg 17.624 min		Lon W 70 deg 16.969 min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 3549		END: HH MM SS 00 4202		sed grab temp logr invert- grab ctd 33	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples low (y, n)			
brachiopod	moon snail	squid	gvl in ripple troughs (y, n)			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		sand partial veneer on gravel y, n			
cancer crab	Polymastia spg		gravel pavement y, n			
cod	red encr. spg		gravelly sand			
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					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 4.8 ; Surface (-1 m) temp deg C 11.5 ; Difference deg C 6.7 ; (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 sample						
No.	Cumul. No.	Time (UTC) HH MM SS	JPG image #	DVD #	Description √ = in photo	Filename Auk2014015_sta_img #
1	10	220610	7867			
2	11	0726	7868			
3						
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 33 USGS STATION 4134

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 149	DATE (UTC) MAY 29, 2014		NAV FILE NO. 2	VIDEO TAPE NO. 4
USGS STA 4135	SBNMS SITE N9	SBNMS STA	CONSEC. STATION 34		DVD NO. 4	DVD TITLE NO. 8
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC		QUAD 8
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 22 34 02	DPH, m 32	Lat N 42 deg 21.511 min		Lon W 70 deg 19.062 min	
SAMPLE TAKEN	UTC HH MM SS 22 34 18	DPH, m	Lat N 42 deg 21.512 min		Lon W 70 deg 19.062 min	
VIDEO OFF BOTTOM	UTC HH MM SS 22 39 00	DPH, m	Lat N 42 deg 21.536 min		Lon W 70 deg 19.080 min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	00 42 02		00 47 50		sed grab temp logr invert- grab ctd 34	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	✓ scallops	just swimming				
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 4.7 ; Surface (-1 m) temp deg C 10.9 ; Difference deg C 6.2 ; (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 Auk2014015_sta_img #
1	12	223537	7869			
2	13	36 50	7870			
3						
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 34 USGS STATION 4135

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 149	DATE (UTC) MAY 29, 2014		NAV FILE NO. 2	VIDEO TAPE NO. 4
USGS STA 4136	SBNMS SITE N7	SBNMS STA	CONSEC. STATION 35		DVD NO. 4	DVD TITLE NO. 9
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 8	NAV GPS
VIDEO ON BOTTOM	UTC HH MM SS 22 51 04	DPH, m 31 ✓	Lat N 42 deg 22.7939 min		Lon W 70 deg 19.4678 min	
SAMPLE TAKEN	UTC HH MM SS 22 56 48	DPH, m	Lat N 42 deg 22.835 min		Lon W 70 deg 19.468 min	
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg .8346 min		Lon W 70 deg .4680 min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 47 50		END: HH MM SS 00 54 26		sed grab temp log invert- grab ctd ³⁵	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
✓ Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs (x) y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		sand partial veneer on gravel y, n			
cancer crab	Polymastia spg		gravel pavement y, n			
cod	red encr. spg		calc algae on pcb			
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					
Eucratea loricata	scallops	storm rips	on pcb/cab/blds (sm)			
Filograna implexa	sculpin					
✓ finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 5.0 : Surface (-1 m) temp deg C 11.3 : Difference deg C 6.3 : (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 Auk2014015_sta_img #
1	14	22 51 55	7871			
2	15	53 55	7872			
3						
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 35 USGS STATION 4136

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 149	DATE (UTC) MAY 29, 2014		NAV FILE NO. 2	VIDEO TAPE NO. 4
USGS STA 4137	SBNMS SITE N12	SBNMS STA	CONSEC. STATION 36		DVD NO. 4	DVD TITLE NO. 10
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC		QUAD 8
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 23 15 13	DPH, m 26	Lat N 42 deg 22.867 min	Lon W 70 deg 22.578 min		
SAMPLE TAKEN	UTC HH MM SS 23 16 42	DPH, m	Lat N 42 deg 22.873 min	Lon W 70 deg 22.575 min		
VIDEO OFF BOTTOM	UTC HH MM SS 23 20 14	DPH, m	Lat N 42 deg 22.890 min	Lon W 70 deg 22.552 min		
pre-tripped ---; no smpl attempted ---; jaws partly open ---; washout ---; refusal ---; too gravelly/shelly ---						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	00 54 26		01 00 06		sed grab temp logr invert- grab ctd 36	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	✓ scallops juv	512 mm x 1 mm				
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 6.2 ; Surface (-1 m) temp deg C 7.3 ; Difference deg C 6.7 ; (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 Auk2014015_sta_img #
1	16	23 18 21	7873			
2	17	23 19 44	7874			
3						
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 36 USGS STATION 4137

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 149	DATE (UTC) MAY 29, 2014		NAV FILE NO. 2	VIDEO TAPE NO. 5
USGS STA 4138	SBNMS SITE N4	SBNMS STA	CONSEC. STATION 37		DVD NO. 5	DVD TITLE NO. 1
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC		QUAD 8
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 23 3304	DPH, m 31✓	Lat N 42 deg 24.171 min		Lon W 70 deg 23.192 min	
SAMPLE TAKEN	UTC HH MM SS 23 3535	DPH, m	Lat N 42 deg 24.167 min		Lon W 70 deg 23.184 min	
VIDEO OFF BOTTOM	UTC HH MM SS 23 3822	DPH, m	Lat N 42 deg 24.210 min		Lon W 70 deg 23.167 min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 06 00		END: HH MM SS 00 06 03		sed grab temp logr invert- grab ctd 37	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	✓ scallops	juv summer mary				
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments	trawl/dredge marks y, n				
haddock	silver hake	ambient light y, n				
Bottom temp deg C 5.1 : Surface (-1 m) temp deg C 11.0 : Difference deg C 5.9 : (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 Auk2014015_sta_img #
1	18	233339	7875			
2	19	3504	7876			
3						
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 37 USGS STATION 4138

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 149	DATE (UTC) MAY 29, 2014		NAV FILE NO. 2	VIDEO TAPE NO. 5
USGS STA 4139	SBNMS SITE N15	SBNMS STA	CONSEC. STATION 38		DVD NO. 5	DVD TITLE NO. 2
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC		QUAD 7
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 23 54 23	DPH, m 28	Lat N 42 deg 24.266 min	Lon W 70 deg 26.168 min		
SAMPLE TAKEN	UTC HH MM SS (23 55 19)	DPH, m	Lat N 42 deg 24.266 min	Lon W 70 deg 26.173 min		
VIDEO OFF BOTTOM	UTC HH MM SS 23 59 40	DPH, m	Lat N 42 deg 24.270 min	Lon W 70 deg 26.199 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 06 03		END: HH MM SS 00 12 04		sed grab temp log invert- grab ctd38	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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	abund	sand lance in water column y, (n)			
Didemnum cols	sand lance adults		sand lance in substrate y, (n)			
dogfish	sand lance juvs					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 5.1 : Surface (-1 m) temp deg C 11.2 : Difference deg C 6.1 : (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 Auk2014015_sta_img #
1	20	235830	7817			
2						
3						
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 38 USGS STATION 4139

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 150	DATE (UTC) ^{29 May EDT} MAY 30, 2014	NAV FILE NO. 2	VIDEO TAPE NO. 5	
USGS STA 4140	SBNMS SITE N1	SBNMS STA = 149 EDT	CONSEC. STATION 39	DVD NO. 5	DVD TITLE NO. 3	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 7	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 00 12 41	DPH, m 33.31	Lat N 42 deg 25.261 min	Lon W 70 deg 26.915 min		
SAMPLE TAKEN	UTC HH MM SS 00 13 47	DPH, m	Lat N 42 deg 25.257 min	Lon W 70 deg 26.921 min		
VIDEO OFF BOTTOM	UTC HH MM SS 00 17 40	DPH, m	Lat N 42 deg 25.245 min	Lon W 70 deg 26.744 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 12 04		END: HH MM SS 00 18 15		sed grab temp logr invert- grab ctd	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	✓ scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 5.1 ; Surface (-1 m) temp deg C 7.0 ; Difference deg C 5.9 ; (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 Auk2014015_sta_img #
1	21	00 14 22	7878			
2						
3						
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 39 USGS STATION 4140

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 150	DATE (UTC) MAY 30, 2014		NAV FILE NO. 2	VIDEO TAPE NO. 5
USGS STA 4141	SBNMS SITE N15	SBNMS STA	CONSEC. STATION 40		DVD NO. 5	DVD TITLE NO. 4
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC		QUAD 7
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 010405	DPH, m 29	Lat N 42 deg 24.335 min	Lon W 70 deg 26.1186 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 010931	DPH, m	Lat N 42 deg 24.342 min	Lon W 70 deg 26.1574 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 1815		END: HH MM SS 00 2436		sed grab temp logr invert- grab ctd40	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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	abund	sand lance in water column y, n			
Didemnum cols	sand lance adults		sand lance in substrate y, n			
dogfish	sand lance juvs					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	2 silver hake		ambient light y, n			
Bottom temp deg C 5.2 : Surface (-1 m) temp deg C 11.5 : Difference deg C 6.3 : (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 Auk2014015_sta_img #
1	22					
2						
3						
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 40 USGS STATION 4141

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 150	DATE (UTC) MAY 30, 2014	NAV FILE NO. 2	VIDEO TAPE NO. 5	
USGS STA 4142	SBNMS SITE N4	SBNMS STA	CONSEC. STATION 41	DVD NO. 5	DVD TITLE NO. 5	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 8	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 01 26 53	DPH, m 32	Lat N 42 deg 24.209 min	Lon W 70 deg 23.225 min		
SAMPLE TAKEN	UTC HH MM SS	DPH, m	Lat N 42 deg 21.44 min	Lon W 70 deg min		
VIDEO OFF BOTTOM	UTC HH MM SS 01 31 34	DPH, m	Lat N 42 deg 24.214 min	Lon W 70 deg 23.255 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 24 36		END: HH MM SS 00 31 27		sed grab (x) temp log (x) invert- grab (x) ctd (x)	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples (y) n			
brachiopod	moon snail	squid	gvl in ripple troughs (y) (n)			
bushy bry/hyd	mussels	yellow encr. spg	small ripples (y) n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops	juv many, swimming	herring y?			
Filograna implexa	sculpin		check go photo			
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks (y) n			
haddock	silver hake		ambient light (y) n			
Bottom temp deg C 5.1 : Surface (-1 m) temp deg C 11.7 : Difference deg C 6.6 : (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 Auk2014015_sta_img #
1	23	01 27 49	7879			
2	24	29 19	7880			
3						
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 41 USGS STATION 4142

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 150	DATE (UTC) MAY 30, 2014		NAV FILE NO. 2	VIDEO TAPE NO. 5
USGS STA 4143	SBNMS SITE N12	SBNMS STA	CONSEC. STATION 42		DVD NO. 5	DVD TITLE NO. 6
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC		QUAD 8
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 01 47 26	DPH, m 28 ✓	Lat N 42 deg 22.8899 min		Lon W 70 deg 22.6146 min	
SAMPLE TAKEN	UTC HH MM SS 01 52 35	DPH, m	Lat N 42 deg 22.9124 min		Lon W 70 deg 22.6608 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 —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 31 27		END: HH MM SS 00 37 46		sed grab temp log invert- grab ctd42	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, (n)			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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	abund	sand lance in water column y, (n)			
Didemnum cols	sand lance adults		sand lance in substrate y, (n)			
dogfish	sand lance juvs					
Eucratea loricata	scallops					
Filograna implexa ✓	sculpin 23					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 5.3 : Surface (-1 m) temp deg C 11.1 : Difference deg C 5.8 : (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 Auk2014015_sta_img #
1	25	014831	7881			
2						
3						
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 43 USGS STATION 4143

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 150	DATE (UTC) ^{29 May EDT} MAY 30, 2014		NAV FILE NO. 2	VIDEO TAPE NO. 5
USGS STA 4144	SBNMS SITE N7	SBNMS STA = 149 EDT	CONSEC. STATION 43		DVD NO. 5	DVD TITLE NO. 7
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC		QUAD 8
				NAV GPS		
VIDEO ON BOTTOM	UTC HH-MM-SS 02 13 50	DPH, m 33 ✓	Lat N 42 deg 22.813 min		Lon W 70 deg 19.497 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 02 18 55	DPH, m	Lat N 42 deg 22.844 min		Lon W 70 deg 19.586 min	
pre-tripped —; no simpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS 400 gully		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 37 46		END: HH MM SS 00 43 58		sed grab (temp log)	
				invert- grab (cid) 43		
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
✓ Boltenia tunic.	lobster	Suberites spg	storm ripples (y, n)			
brachiopod	moon snail	squid	gvl in ripple troughs (y, n)			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout	celt algae	sand partial veneer on gravel y, n			
cancer crab	Polymastia spg		gravel pavement y, n			
cod	red encr. spg		p.c.b under storm ripples			
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					
Eucratea loricata ✓	scallops					
Filograna implexa	sculpin					
✓ finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 5.1 ; Surface (-1 m) temp deg C 11.2 ; Difference deg C 6.1 ; (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 Auk2014015_sta_img #
1	26	02 15 31	7882			
2	27	16 45	7883			
3	28	17 39	7884			
4	29	18 05	7885			
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 43 USGS STATION 4144

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 150	DATE (UTC) MAY 30, 2014	NAV FILE NO. 2	VIDEO TAPE NO. 6	
USGS STA 4145	SBNMS SITE C4	SBNMS STA	CONSEC. STATION 44	DVD NO. 6	DVD TITLE NO. 1	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 5	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 025740	DPH, m 31	Lat N 42 deg 15.811 min	Lon W 70 deg 16.582 min		
SAMPLE TAKEN	UTC HH MM SS 030245	DPH, m	Lat N 42 deg 15.918 min	Lon W 70 deg 16.614 min		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg .9174 min	Lon W 70 deg .614 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 00 00		END: HH MM SS 00 06 13		sed grab (circled) temp log (circled) invert- grab ctd (circled)	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples (y, n)			
brachiopod	moon snail	squid	gvl in ripple troughs (y, n)			
bushy bry/hyd	mussels	yellow encr. spg	small ripples (y, n)			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops					
Filograna implexa	✓ sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks (y, n)			
haddock	✓ silver hake		ambient light (y, n)			
Bottom temp deg C 5.1 : Surface (-1 m) temp deg C 9.8 : Difference deg C 4.7 : (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 Auk2014015_sta_img #
1					bad data, loggers not deployed	
2						
3						
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 44 USGS STATION 4145

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 150	DATE (UTC) MAY 30, 2014		NAV FILE NO. 2	VIDEO TAPE NO. 4
USGS STA 4146	SBNMS SITE C10	SBNMS STA	CONSEC. STATION 45		DVD NO. 6	DVD TITLE NO. 2
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 5	NAV GPS
VIDEO ON BOTTOM	UTC HH MM SS 031739	DPH, m 33 ✓	Lat N 42 deg 14.564 min	Lon W 70 deg 17.782 min		
SAMPLE TAKEN	UTC HH MM SS 032226	DPH, m	Lat N 42 deg 14.646 min	Lon W 70 deg 17.753 min		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg 14.645 min	Lon W 70 deg 17.754 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES sed grab temp log	
V TAPE COUNTER DOWN	START: HH MM SS 00 06 13		END: HH MM SS 00 12 08		invert- grab ctd 45	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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	abund	sand lance in water column y, n			
Didemnum cols	sand lance adults		sand lance in substrate y, n			
dogfish	sand lance juvs					
Eucratea loricata	✓ scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	✓ shells & fragments		trawl/dredge marks y, n			
haddock	2 silver hake		ambient light y, n			
Bottom temp deg C 5.0 : Surface (-1 m) temp deg C 11.8 : Difference deg C 6.8 : (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 Auk2014015_sta_img #
1	30	031837	7886			
2						
3						
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 45 USGS STATION 4146

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 150	DATE (UTC) = 2014 MAY 30	NAV FILE NO. 2	VIDEO TAPE NO. 6	
USGS STA 4147	SBNMS SITE C6	SBNMS STA = 149 EDT	CONSEC. STATION 46	DVD NO. 6	DVD TITLE NO. 3	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 5	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 033655	DPH, m 28	Lat N 42 deg 13.683 min	Lon W 70 deg 16.422 min		
SAMPLE TAKEN	UTC HH MM SS 034154	DPH, m	Lat N 42 deg 13.773 min	Lon W 70 deg 16.392 min		
VIDEO OFF BOTTOM	UTC HH MM SS	DPH, m	Lat N 42 deg 13.773 min	Lon W 70 deg 16.392 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 12 08		END: HH MM SS 00 18 05		sed grab temp logr invert- grab ctd 46	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 5.3 ; Surface (-1 m) temp deg C 11.7 ; Difference deg C 6.4 ; (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 Auk2014015_sta_img #
1	31	033700	7887		bad image	
2						
3						
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 46 USGS STATION 4147

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 150	DATE (UTC) MAY 30, 2014	NAV FILE NO. 2	VIDEO TAPE NO. 6	
USGS STA 4148	SBNMS SITE 08	SBNMS STA 149/150	CONSEC. STATION 47	DVD NO. 6	DVD TITLE NO. 4	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS 235603 EDT		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 5	
VIDEO ON BOTTOM		UTC HH MM SS 03 56 03	DPH, m 28	Lat N 42 deg 12.3924 min	Lon W 70 deg 17.455 min	
SAMPLE TAKEN		UTC HH MM SS (04 00 19)	DPH, m 00 00 19 EDT 30 May	Lat N 42 deg 12.461 min	Lon W 70 deg 17.409 min	
VIDEO OFF BOTTOM		UTC HH MM SS	DPH, m	Lat N 42 deg .4605 min	Lon W 70 deg .4099 min	
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD		START: HH MM SS		END: HH MM SS		
V TAPE COUNTER DOWN		START: HH MM SS 00 18 05		END: HH MM SS 00 23 28		
				SAMPLE TYPES sed grab temp log invert- grab ctd 47		
att epifauna		herring eggs	skate	SEABED DESCRIPTION		
Boltenia tunic.		lobster	Suberites spg	storm ripples y, n		
brachiopod		moon snail	squid	gvl in ripple troughs y, n		
bushy bry/hyd		mussels	yellow encr. spg	small ripples y, n		
juvenile cod		ocean pout		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				
Eucratea loricata		scallops				
Filograna implexa		sculpin 2				
finger spg		sea stars				
flounder		shells & fragments		trawl/dredge marks y, n		
haddock		silver hake		ambient light y, n		
Bottom temp deg C 6.1 : Surface (-1 m) temp deg C 12.0 : Difference deg C 5.9 : (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 Auk2014015_sta_img #
1		03 57 05	7890			
2		58 38	7891			
3						
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 47 USGS STATION 4148

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 150	DATE (UTC) MAY 30, 2014	NAV FILE NO. 2	VIDEO TAPE NO. 6	
USGS STA 4149	SBNMS SITE 513	SBNMS STA = 150 EDT	CONSEC. STATION 48	DVD NO. 6	DVD TITLE NO. 5	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 2	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 042414	DPH, m 25	Lat N 42 deg 10.317 min	Lon W 70 deg 18.293 min		
SAMPLE TAKEN	UTC HH MM SS (042539)	DPH, m	Lat N 42 deg 10.316 min	Lon W 70 deg 18.276 min		
VIDEO OFF BOTTOM	UTC HH MM SS 043611	DPH, m	Lat N 42 deg 10.442 min	Lon W 70 deg 18.093 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD		START: HH MM SS		END: HH MM SS		
V TAPE COUNTER DOWN		START: HH MM SS 002328		END: HH MM SS 003615		
				SAMPLE TYPES sed grab temp logg invert- grab ctd 48		
att epifauna		herring eggs	skate	SEABED DESCRIPTION		
Boltenia tunic.	✓	lobster	Suberites spg	storm ripples	y, n	
brachiopod		moon snail	squid	gvl in ripple troughs	y, n	
bushy bry/hyd		mussels	yellow encr. spg	small ripples	y, n	
juvenile cod		ocean pout		sand partial veneer on gravel	y, n	
✓ cancer crab (5)		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				
Eucratea loricata	✓	scallops				
Filograna implexa	✓	sculpin (5)		1 in grab		
finger spg		sea stars				
flounder	✓	shells & fragments		trawl/dredge marks	y, n	
haddock		silver hake		ambient light	y, n	
Bottom temp deg C 6.3 ; Surface (-1 m) temp deg C 11.4 ; Difference deg C 5.1 ; (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 Auk2014015_sta_img #
1		043401	7892			
2						
3						
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9						
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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 48 USGS STATION 4149

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC) 150	DATE (UTC) MAY 30, 2014	NAV FILE NO. 1	VIDEO TAPE NO. 6	
USGS STA 4150	SBNMS SITE 513	SBNMS STA 4150	CONSEC. STATION 49	DVD NO. 6	DVD TITLE NO. 6	
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC	QUAD 2	
				NAV GPS		
VIDEO ON BOTTOM	UTC HH MM SS 04 48 45	DPH, m 25	Lat N 42 deg 10.3653 min	Lon W 70 deg 18.3423 min		
SAMPLE TAKEN	UTC HH MM SS 04 49 25	DPH, m	Lat N 42 deg 10.3781 min	Lon W 70 deg 18.3405 min		
VIDEO OFF BOTTOM	UTC HH MM SS 04 55 19	DPH, m	Lat N 42 deg 10.4790 min	Lon W 70 deg 18.2961 min		
pre-tripped —; no smpl attempted —; jaws partly open —; washout —; refusal —; too gravelly/shelly —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS 00 36 15		END: HH MM SS 00 43 41		sed grab temp log invert- grab ctd 49	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		sand partial veneer on gravel y, n			
cancer crab (5)	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		3 st in grab			
Eucratea loricata	scallops					
Filograna implexa	sculpin (5)					
finger spg	sea stars					
flounder	shells & fragments		trawl/dredge marks y, n			
haddock	silver hake		ambient light y, n			
Bottom temp deg C 6.3 ; Surface (-1 m) temp deg C 11.4 ; Difference deg C 5.1 ; (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 Auk2014015_sta_img #
1		045255	7893			
2						
3						
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5						
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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 49 USGS STATION 4150

CRUISE: USGS AUK2014015 SBNMS May 2014		JD (UTC)	DATE (UTC) MAY , 2014		NAV FILE NO.	VIDEO TAPE NO.
USGS STA	SBNMS SITE	SBNMS STA	CONSEC. STATION		DVD NO.	DVD TITLE NO.
VIDEO START AT SURFACE UTC HH MM SS		VIDEO END AT SURFACE UTC HH MM SS		Sunset: May 19, 2014 2006 EDT = 0006 UTC		QUAD
						NAV GPS
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 —						
V TAPE COUNTER FORWARD	START: HH MM SS		END: HH MM SS		SAMPLE TYPES	
V TAPE COUNTER DOWN	START: HH MM SS		END: HH MM SS		sed grab temp logr	
					invert- grab ctd	
att epifauna	herring eggs	skate	SEABED DESCRIPTION			
Boltenia tunic.	lobster	Suberites spg	storm ripples y, n			
brachiopod	moon snail	squid	gvl in ripple troughs y, n			
bushy bry/hyd	mussels	yellow encr. spg	small ripples y, n			
juvenile cod	ocean pout		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					
Eucratea loricata	scallops					
Filograna implexa	sculpin					
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 Auk2014015_sta_img #
1						
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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 **USGS STATION**