SBNMS Site ____, Sta____

2 parallel lasers 15 an apart

DWW Video 15 color; soved on OvD and 8 mm tape

Golvo FWD Video is color; downloaded from camera

EDT= UTE-4hvs

CRUI	SE: USC SBN			4015 y 2014	10 (U					, 2014		NAV FILE NO).).		DEO PE NO.	1
USGS STA	410		SBN SITE	MS SSI	SBNN STA	/IS				NSEC.	1	DVD NO.	1	DV	D LE NO.	(
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	t epifaun			herring	eggs			skate			<u> </u>	SEABI	ED DE	SCRIF	TION	
	oltenia tu		\perp	lobster			\mathcal{V}	Sube		spg		ripples			(V.) n
	achiopod		+	moon sn	<u>ail</u>			squic				ripple tro	ughs		у,	n
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co			╁	Polymas			_				grave	el paveme	nt	<u></u>	у,	<u>n</u>
	nner		+	red encr. red hake												
	yellow s	na	+	sand doll								lana a in				
	demnum			sand lan		te						lance in				<u></u>
	gfish	COIS	+	sand lan							sand	lance in	SUDST	rate	<u>y,</u>	<u>A</u>
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	under		V			2	\dashv				trawi/	dredge ma	arke			
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Photo o	f sample i	n arab o	n de	ck = #_ SEABED: (Pre	elim. v	visu	al textu	ire fr	om VIDE	or SA	MPLE -				
	Dumul.	Tim	e (U	TC)	JPG	T	/D -	1		Descri	otion			Filen		
1	No.		MM 40	,	mage #	-	_	<u> </u>		√ ≔ in p	hoto		Auk2	014015	s_sta_im	g #
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SBNMS Site 5 \ , Sta_____

VIDEO START AT SURFACE UTC HH MM SS VIDEO ON BOTTOM 2 0 2 5 3 4 2 5 4 2 42 deg		SE: USG SBN			4015 / 2014					UTC 2フ) _ , 2014	4	NAV FILE NO	1.	VID	EO PE NO.	1
UTC HH MM SS		410	2 s	BNI	MS 52		/IS										7
VIDEO ON BOTTOM 2 0 2 5 3 4 2 deg // 378 min 70 deg /8 3/7 min 70				RFA				SI	JRFA	CE	Sunse 2006 F	t: May	19, 2014				
SAMPLE TAKEN TO BE OFF BOTTOM TO CHH MM.SS DPH, m Lat N 42 deg min Pro-tripped —: no smpl attempted —: jaws partily open —; washout —: refusal —: too gravelly/shelly — VTAPE COUNTER FORWARD VTAPE COUNTER START: HH MM SS DOWN START: HH MM SS DN: HH MM SS END: HL MM									a 4n	Lat							
VIDEO OFF BOTTOM	SAMP	PLE	UTC H	н м	IM SS				70	Lat	N deg	1415 N. 4	6 min	Lon 70 de	w eg /{	404	++ min
VTAPE COUNTER FORWARD VTAPE COUNTER DOWN VTAPE COUNTER START: HH MM SS END: HH							PH, m	1		Lat	N			Lon	W		min
VTAPE COUNTER DOWN VTAPE COUNTER DOWN Attepifauna Invertigegs Skate SEABED DESCRIPTION Boltenia tunic, Iobster Suberites spg Storm ripples (Y) n mussels Y, n juvenile cod cocean pout cancer crab Polymastia spg cod red encr. spg Curuner Iodemnum cols Sand lance adults Sand lance in water column Filograna implexa Sculipin Ifinger spg Sea stars Ifiounder Sealops Sea stars Ifiounde	pre-tri	pped —;	no smpl					pe	n —; v					velly/s			
STAPE COUNTER STAPE STAP			TER	STA	ART: HH	MM S	S	-		EN	D: HH	MM S	S				~
att epifauna herring eggs Skate SEABED DESCRIPTION Bottenia tunic. lobster Suberites spg storm ripples (y, n bushy bry/hyd moon snail squid gwl in ripple troughs y, n bushy bry/hyd mussels yellow encr. spg small ripples y, n cod cancer crab Polymastia spg gravel pavement y, n cod red encr. spg dk yellow spg sand dollars sand lance in water column y, n Didemnum cols sand lance adults sand lance in substrate y, n sand dock silver hake silver hake silver hake Surface (f m) temp deg C f - 2 Difference deg C f - 2 Consent Tidbl v2 Description Filename Auk2014015 sta img # 20 2429 7798 3 4 9 9 10 10 10 10 10 10																	ctd ;
Bottenia tunic. lobster Suberities spg storm ripples Yi n									skate				. ,		SCRIP	TION	
bushy bry/hyd mussels yellow encr. spg small ripples y, n cancer crab polymastia spg gravel pavement y, n gravel pavement y, n cancer crab polymastia spg gravel pavement y, n polymastia spg gravel pavement y, n polymastic spg gravel pavement y, n polym											spg		ripples			(у	
juvenile cod ccean pout sand partial veneer on gravel y, n cancer crab Polymastia spg gravel pavement y, n cod red encr. spg cunner red hake sand dollars sand lance in water column y, n Didemnum cols sand lance adults sand lance in substrate y, n dogfish sand lance juvs sand lance juvs Eucratea loricata v scallops Filograna implexa sculpin finger spg sea stars flounder shells & fragments trawl/dredge marks y, n n souther tight y, n section temp deg C 5 · 2 : Surface (1 m) temp deg C 6 · 2 : Surface (1 m) temp deg C 6 · 2 : Surface (1 m) temp deg C 6 · 2 : Difference deg C 6 · 2 : Conset 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; ipeg images Prelim. Visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED. Canon digital G12 camera, 12 MPixels; ipeg images Prelim. Visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED. Canon digital G12 camera, 12 MPixels; ipeg images Prelim. Visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED. Canon digital G12 camera, 12 MPixels; ipeg images Prelim. Visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED. Canon digital G12 camera, 12 MPixels; ipeg images Prelim. Visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED. Canon digital G12 camera, 12 MPixels; ipeg images Prelim. Visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED. Canon digital G12 camera, 12 MPixels; ipeg images Prelim. Visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED. Canon digital G12 camera, 12 MPixels; ipeg images Prelim. Visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED. Canon digital G12 camera, 12 MPixels; ipeg images Prelim. Visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED. Canon digital G12 camera, 12 MPixels; ipeg images Prelim. Visual texture from VID				_		<u> </u>								ughs_		у,	<u>(n</u>
Cancer crab Polymastia spg gravel pavement y, n cod red encr. spg red hake sand tollars y, n tollars trawl/dredge marks y, n tollars tolla				+					yello	w en	cr. spg					<u></u>	
couner red encr. spg cunner red hake dk yellow spg V sand dollars Sand lance in water column y, n Didemnum cols dogfish Sand lance adults Sand lance in substrate V, n Didemnum cols dogfish Sand lance juvs Eucratea loricata Filograna implexa Sculipin Filograna implexa Sculipin Sea stars Ifounder Shells & fragments Indidock Silver hake Sea stars Ifounder Shells & fragments Sea stars In lounder Shells & fragments Shells & fragment				\vdash											n grave		
cunner red hake dk yellow spg sand dollars sand lance in water column y, n			<u>. </u>	+								grave	n paveme	i i i		у	n
dk yellow spg V sand dollars sand lance in water column y, n				T		əpg		-1			.						
Didemnum cols dogfish sand lance adults dogfish sand lance juvs sand lance juvs successed by scallops sculpin sculpin sculpin sea stars standadock silver hake ambient light silver hake score in pleng deg C 5·2 ; Surface (-1 m) temp deg C 4·2 ; 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. No. HH MM SS image # DVD # Description V = in photo filename Auk2014015_sta_img # 1 3 202429 7798			pg	H		ars		\dashv				sand	lence in	water	column	. v	7n
dogfish sand lance juvs							ts	\dashv									
Eucratea loricata				\Box								Jana	idileo ili	JUD31	aic	у,	<u> </u>
Filograna implexa Sculpin Sea stars			ricata	V				一				1					
flounder								ヿ				1					
haddock silver hake ambient light y, n	fin	nger spg			sea stars		i	丁									***
haddock silver hake ambient light y, n	flo	ounder		4	shells & fi	agmen	ts					trawl/	dredge m	arks		ν,	n
Bottom temp deg C					silver hak	е						ambio	ent light				
No. HH MM SS image # V= in photo Auk2014015_sta_img # 1	Photo o	of sample i		n de	ck = #	Pr	elim. v	/isu	al textu	are fr	om VIDE	O or SA	MPLE =	11 V 2)			
1 3 202629 7798 2 4 2912 7799 3 4 5 6 7 8 9 9 10			HOTOS				T-			w, 12			ages		Filons		
3 4 5 6 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10		Cumul.	HOTOS Time	e (U	TC)	JPG	DV			u, 12	Descri	ption	nages	Auk2i			ng #
4 5 6 7 8 9 10	No.	Cumul. No.	HOTOS Time HH	e (U MM	TC) SS i	JPG nage #	DV				Descri	ption	ages	Auk2			ng #
5 6 7 8 9 10	No.	Cumul. No.	HOTOS Time HH	e (U MM	TC) SS ii	JPG mage #	DV				Descri	ption	nages	Auk2			ng #
6 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	No. 1 2 3	Cumul. No.	HOTOS Time HH	e (U MM	TC) SS ii	JPG mage #	DV				Descri	ption	nages	Auk2			ng #
7 8 9 10 10 1 10 1 10 1 10 1 10 1 10 1 10	No. 1 2 3 4	Cumul. No.	HOTOS Time HH	e (U MM	TC) SS ii	JPG mage #	DV				Descri	ption	nages	Auk2			ng #
9 10	No. 1 2 3 4 5 5	Cumul. No.	HOTOS Time HH	e (U MM	TC) SS ii	JPG mage #	DV				Descri	ption	nages	Auk2			ng #
10	No. 1 2 3 4 5 6	Cumul. No.	HOTOS Time HH	e (U MM	TC) SS ii	JPG mage #	DV				Descri	ption	nages	Auk2			ng #
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IGHT OF CAMERA LENS ABOVE SEABED = 30 in (76 cm)	No. 1 2 3 4 5 6 7 8	Cumul. No.	HOTOS Time HH	e (U MM	TC) SS ii	JPG mage #	DV			ω, τ.	Descri	ption	nages	Auk2			ng #
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CRUISE: L	JSGS AU BNMS		015 2014	i '	(UTC) 		ATE () _ , 2014		NAV FILE NO	o.	VID	EO PE NO.	
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VIDEO STA		URFA		DEO E	ND AT	r su	RFA	CE			19, 2014	- 1	UAD Z		AV
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VIDEO ON BOTTOM	N2	24	7					42	deg		min	√70 d	eg		min
SAMPLE TAKEN		HH MN	A SS	\	DPH, n	n		Lat 42	: N deg		min	Lon 70 d	1		min
VIDEO OFF	UTC	HH MN	1 SS		DPH, n	n		La:	N deg		min	Lon 70 d			min
pre-tripped	—; no sm	pl atte	mpted —	; jaws	partly	ope	n —;	wash	out —; r	efusal	—; too g	ravelly/	shelly -	_	
V TAPE CO	UNTER		RT: HF		·	-			D: HH		_		SAME	PLE TY	
V TAPE CC		STA	RT: HI	I MM	SS			EN	D: HH	MM S	SS		sed gr	ab ter	np logr
DOWN		01	349	10									invert-		Ctd 3
att epifa			herring	eggs		\vdash	skat			-4		BED DE	SCRIF		
Boltenia brachio		-	lobster moon sr	nail		╁	squi		spg		n ripples n ripple tr	oughe			, n
bushy b		_	mussels			╁┼			cr. spg		l ripple ti	ougns			n
juvenile		_	ocean p	_		+ +	you	711 61	ioi. opg		partial v	eneer o	n grave		, n
cancer		\rightarrow	Polymas		<u> </u>	╁┼					el pavem		ar grave		, n
cod	Orab	++	red encr		2	1				giav	or paroni	0111			
cunner			red hake			+					1/2				
dk yello	w _{spa}		sand do			1-1				sano	d lance in	water	colum	n y,	n
	um cols		sand la		ults	1 1					lance ir			y,	
dogfish			sand la			Ħ				-	- 141100 11		### B	7	
	a loricata		scallops			1-1				5					
	na implex		sculpin			\vdash				3000					
finger s			sea star	S		1 1					-				
flounde		-	shells &		ents	\vdash				traw	/dredge r	narks		v	, n
haddoc			silver ha		J.110	1 1					ent light	1101110			n
Bottom temp d		· ; Sur	face (-1 m)	temp d	eg C		; Dif	ferenc	e deg C		(Onset Tic	(biT v2)			.,,
Photo of sam	ple in grab	on dec	k = #		Prelim.	visu	al text	ure fo	om VIDE	O or S/	AMPLE =				
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9				140			-		}						
10															
EIGHT OF CAN	IERA LENS	ABOVE	SEABED	= 30 in (76 cm)						0.074	Lung			4,3

SBNMS Site 53, Sta

	UISE: USC SBN		2014015 May 2014	10 (0)			UTC) 27_,20)14	NAV FILE NO	. \	VID TAF	EO PE NO.
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	EO START			DEO END		URFA	Sun		19, 2014 0006 UTC	QU 2	IAD	NAV
	EO ON	UTC H	H MM SS	DI	PH, m	51	Lat N	•	5578 57 min	Lon V	N ;	GPS 3728 369min
SAN	/IPLE	_	H MM SS	DF	PH, m		Lat N	. 6	50 50 5 min	Lon V	V	4587
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FOR	RWARD					_				(sed gra	temp logr
V TA	APE COUN	ITER DE	START: HH	1 MM SS 7 2 5			END: F		ss 3905		invert-	
	att epifaun		herring	`	1.0	skate	00 6	4 3	SEABL			
	Boltenia tu		lobster	eggs			erites spg	stor	m ripples	ED DES	Jow	
-	brachiopo		moon sr	ail -	•	squi	dt	gvl	in ripple tro	ughs		y, n
	bushy bry/		mussels			yello	w encr. sp		all ripples			∠y∖ n
_	juvenile co	-	ocean p						d partial ver		grave	
-	cancer cra	b	Polymas red encr		_			grav	vel paveme	<u>nt</u>		y, n
	cunner		red hake			+		-				
_	dk yellow :	spa	sand dol			\vdash		san	d lance in	water o	colum	n y, n
	Didemnun			ice adult	s				d lance in			y, (n)
	dogfish			nce juvs								
$\overline{}$	Eucratea I		scallops					2				
	Filograna i	mplexa	sculpin		_							
	finger spg flounder		sea stars			 		trau	/l/dredge ma	arks		
	haddock		silver ha		5	+			oient light	aiks		y, n y, n
Bottor	m temp deg (5.6;	Surface (-1 m)	temp deg (0167	; Diff	erence deg (5.5	; (Onset Tidb	iT v2)		y, 11
Photo DIGI	o of sample	in grab or PHOTOS	n deck = # OF SEABED:	Pre	ilim, vis	ual text	ure from VI ra, 12 MPix	DEO or S els; ipeq	AMPLE =			
No.	Cumul.		e (UTC)	JPG	DVD) #		cription			Filen	
1	No.		10.0	image #	-		V =	in photo		Auk20)14015	_sta_img #
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3 4 5 6 7 8	7											
3 4 5 6 7	7											

SBNMS Site <u>53</u>, Sta_

STA 4/05	SBNMS SITE 54	SBNMS		CONSEC.			
	SHE 57	STA		STATION	5 DVD NO.	DV TIT	LE NO. 5
VIDEO START AT SI		DEO END AT		Sunset	: May 19, 2014	QUAD	NAV
				_	OT = 0006 UTC	2	GPS
VIDEO ON BOTTOM 2	HH MM SS 1 3/10	DPH, n	n 28,	I MANUEL IN	1,721 min	Lon W - 3 70 deg / 0	729 7,374min
I SAIVIPLE	1355b	DPH, n	n	Lat N 42 deg /	.7508 1.75/ min		4368 1,438 min
1	HH MM SS	DPH, n	n	Lat N 42 deg	min	Lon W 70 deg	min
pre-tripped —; no smj	pl attempted —	: iaws partly	open —:	uashout —: r	efusal —: too gra	L avellv/shellv -	
V TAPE COUNTER	START: HH		-р ,	END: HH			PLE TYPES
FORWARD						sed g	rab) temp logr
V TAPE COUNTER	START: HH			END: HH		, –	
DOWN	0091	39		60	2728		<u> </u>
att epifauna	herring	eggs	skat			ED DESCRIF	
Boltenia tunic.	lobster moon sn	ail	squi	erites spg	storm ripples gvl in ripple tro	uabe	<u>(y</u>) n v, n
bushy bry/hyd	mussels	all		w encr. spg	small ripples	ugris	y, n y, n
juvenile cod	ocean po	out		noch sh	sand partial ve	neer on grav	
cancer crab	Polymas		100	2743	gravel paveme		y, n
cod	red encr.						
cunner	red hake						70-
dk yellow spg	sand doll				sand lance in		
Didemnum cols		ce adults	\vdash		sand lance in	substrate	y, (n
dogfish Eucratea loricata	sand lan	ice juvs	 				
Filograna implexa			++-				
- finger spg	sea stars						
√ flounder		fragments			trawi/dredge m	arks	y, n
haddock	silver hal	(e			ambient light		y, n
Bottom temp deg C 512						oiT v2)	
Photo of sample in grab DIGITAL STILL PHOTO	on deck = #	Prelim.	visual tex	ture from VIDE0	O or SAMPLE =		
		IDC T		Descrip		Filor	name
	ne (UTC) I MM SS	image # D	VD#	√= in p			5_sta_img #
1 9 21	13206	7804					
2 10	3252 -	7805				2 (54 3 5) %	
3 (/		7806					
4 (2	3535 -	7807					
5							
6							
7							
8							
9							
9 10 HEIGHT OF CAMERA LENS				2 100			

SBNMS Site 4, Sta_

UNU	JISE: USG SBN			1015 2014	JD (UT	- 1	ATE (UTC) 2, 2014	NA'	V E NO.	[VIDEO TAPE I	1
USG			BNI		SBNMS			CONSEC.				 	
STA	4/0	6 5	SITE	55	STA			STATION	6 NO				NO. 6
	EO START HH MM SS		IRFA		EO END HH MM		JRFAC	Sunset:	May 19, 2 T = 0006 l		QU/		NAV · GPS
	EO ON	UTC			- 1	H, m		Lat N 42 deg	1.8372	min	Lon W		46 min
	ТОМ	2		1738			61		1.837	1		.46	61
SAM TAK	IPLE EN	DIC (يا ا	221		H, m		42 deg /	8474	min 7	Lon W 70 deg	112.5	236 24 min
	EO OFF TOM	UTC I	нн м	M SS	DP	H, m		Lat N 42 deg			Lon W 70 deg		min
pre-t	tripped;	no smp	atte	mpted —;	jaws par	rtly ope	en; \	washout —; re	efusal; to	o grav	elly/sh	elly	
V TA	APE COUN			ART: HH				END: HH			- [SAMPLE	TYPES
			ST/	ART: HH	MAM CC	-		END: HH	MM SS		(6	sed grab	temp logi
DOW			317	007	273			00	331	9		nvert- gra	
	att epifaun		\bot	herring e	ggs		skate				D DES	CRIPTIC	
	Boltenia tu brachiopod		+	lobster moon sna	sil		Sube	erites spg	storm ripp		ahe		<u>у, п</u> у, п
	bushy bry/		-	mussels	211	-		w encr. spg	small ripp		gris		y, (1) y, n
	juvenile co		† †	ocean po	ut	<u> </u>	you	ar ener. opg	sand part	ial vene	eer on	gravel	y, n
	cancer cra			Polymast					gravel pa				y, n
	cod			red encr.	spg				. "				
	cunner		\perp	red hake									
	dk yellow s		1	Sand doll		_	 		sand lan				у,
	Didemnum dogfish	cois	+	sand lan		S	<u> </u>		sand lan	ce in si	uostra	ne	у.
	Eucratea k	ricata	+	scallops	ce juva								
	Filograna i		1	sculpin									
	finger spg			sea stars									<u> </u>
	flounder		V	shells & f		s			trawl/dred		rks		(y,) n
	haddock m temp deg C	5.1	· S	silver hak		10.4	· Diff	erence deg C 5	ambient li		v2)		y, n
Photo	o of sample	in grab o	on de	ck = #	Pre	lim. visi	ual text	ure from VIDE(ra, 12 MPixels;	O or SAMPL	E =	· ·		
No.	Cumul.	Tim	20 //	TC)	JPG	T		Descrip	ation			Filenam	
110.	1 1			' ~ .		DVD	##				A L.OO	4404E -	
	No.	HH	MM	SS i	mage #	DVD	#	$\sqrt{=\inf p}$		- '	Auk20	14015_s	ta_img #
1 2	13	HH	MM I Y	ss i	mage # 1808	DVD	#			,	Auk20	14015_s	ta_img #
1		HH	MM I Y	ss i	mage #	DVD	#			,	Auk20	14015_s	ta_img #
1 2	13	HH	MM 14. 48	\$\$ i \$02 - \$40 7 131 7	mage # 1808 809	DVD	#			,	Auk20	14015_s	ta_img#
2	13 14 (5	HH	46 46 46	802 - 340 7 131 7	mage # 1808 809 810	DVD	#			,	Auk20	14015_s	ta_img #
1 2 3 4 5	13 14 (5	HH	46 46 46	802 - 340 7 131 7	mage # 1808 809 811	DVD	#				Auk20	14015_s	ta_img #
1 2 3 4 5 6 7	13 14 (5	HH	46 46 46	802 - 340 7 131 7	mage # 1808 809 811	DVD	#				Auk20	14015_s	ta_img#
1 2 3 4 5 6 7 8	13 14 (5	HH	46 46 46	802 - 340 7 131 7	mage # 1808 809 811	DVD	#				Auk20	14015_s	ta_img #
1 2 3 4 5 6 7	13 14 (5	HH	46 46 46	802 - 340 7 131 7	mage # 1808 809 811	DVD	#				Auk20	14015_s	ta_img #

SBNMS Site 55, Sta

CRUISE: US		2014015 May 2014	JD (UTO			UTC) 22,2	2014		NAV FILE NO	. \	VID	EO PE NO.
USGS STA 4/0		BNMS TE S6	SBNMS STA			CONSE		7	DVD NO.	1	DVE	E NO. 7
VIDEO STAI			EO END		JRFA	Sui			19, 2014		IAD	NAV
						200	6 EC		006 UTC		5	GPS
VIDEO ON BOTTOM	- 1	- 06 09	DPH	1, m 4つ		Lat N 42 deg	l	20	2 14 2 min	Lon V 70 de	y . g l	4207 2 min
SAMPLE TAKEN	UTC H	1 MM SS	DPI	l, m		Lat N 42 deg			40 H min	Lon V 70 de	y .	4725 473 min
VIDEO OFF	UTC HI	H MM SS	DPH	i, m		Lat N 42 deg			min	Lon V 70 de	V	min
	-: no smpl	attempted —;	iaws part	lv ope	n —:	washout	: re	fusal	—: too gra	vellv/s	hellv -	
V TAPE COL		START: HH		., .,	,	END:						PLE TYPES
FORWARD	MIEH											
V TAPE COL	INITED	START: HH	MM SS	^		END:	нн і	VIM S	S		sed gra	ab) temp logr)
DOWN	, , , , , , , , , , , , , , , , , , ,	003	331	9		00	3	39	101	1	invert-	grab ctd 7
att epifa	una	herring e		Ì	skat	e		,	SEAB	D DE	SCRIP	TION
Boltenia		lobster				erites spo			n ripples			⊘√,) n
brachiop		moon sna	a <u>il</u>		squi				ripple tro	ughs		<u>у,</u> п
bushy bi		mussels		_	yello	w encr. s	pg		Iripples			<u>y, n</u>
juvenile		ocean po							partial ver		ı grave	
cancer o	rab	Polymast						grave	el paveme	nt		y, n
cod		red encr.	spg	_								
cunner dk yellov	u eng	sand doll	are					eanc	l lance in	water	colum	n y, 📆
Didemnu			ce adults						l lance in			y, (n)
dogfish	111 0013	sand lan						00110	Tanto III			
	Ioricata	scallops										
	a implexa	sculpin										
finger sp		sea stars										
flounder		✓ shells & f	ragments					trawl	/dredge m	arks		<u>(y,</u>) n
haddock		silver hak	(e					ambi	ent light			y, n
Bottom temp de	gC4.6 ;	Surface (-1 m)	temp deg C	10.9	; Diff	erence dec	C6.	3 :	(Onset Tidb	iT v2)		
Photo of samp DIGITAL STIL	le in grab oi L PHOTOS	n deck = # OF SEABED:(Preli Canon digit	m. visu tal G12	ıal text came	ure from \ ra, 12 MP	/IDEC ixels;	or SA jpeg ir	MPLE = nages			
No. Cumul No.		e (UTC) MM SS i	JPG mage #	DVD	#		scrip			Auk20	Filen	ame 5_sta_img #
1 /1/		0629 -					- III P	11010		710112	37 10 10	ttaiiiig ii
2 19			7813 7814		+	3902						
3 20	+	0854 7	1815									
4 21	C	1920 -	1816									
5 97		1017	7817		\perp				\rightarrow			
6 23		1035	7818		_							
7												
8					_					71		
9					200							
10												
IEIGHT OF CAMI SIZE OF BOTTON	ERA LENS AI I AREA IMAG	BOVE SEABED = SED AT 30 in ABO	30 in (76 ci OVE SEABE	n) D = 30	x 20 IN	(76 x 51 C	м) С(ONSE	C STA 7	USG	S STA	TION 415

SBNMS Site 56, Sta_

	JISE: USG SBN			4015 2014	196	JTC) ン	M	ATE (I	12	, 2014		NAV FILE NO	.	VID	EO PE NO.	1
USC STA	///////////////////////////////////////		BNI	MS 57	SBNI STA	VIS	_			NSEC. ATION	8	DVD NO.	1	DVI	LE NO. (2
	EO START		RFA	CE VIE	DEO EN	ID AT	SL	JRFAC	E	Sunset:	May '	19, 2014	Q	UAD	NA	V
UIC	111 MM 22									2006 ED	T = 0	006 UTC	6		GP	S
	EO ON ITOM	UTC F		m ss 2403	1	OPH, n	5	-	La 42	t N deg 12	.13	o 5 min	Lon 70 d	W eg 🔗	4665	min
SAN	MPLE CEN	UTG F		M SS		ЭРН, п	ī		La 42	t N deg (2	15	2.0 2 min	Lon 70 de	w eg o⊱	5.517	3 min
	EO OFF	UTC H				OPH, n	n		La	N deg		min	Lon	W		min
	tripped —;	no smp	l atte	empted —	; jaws p	artly	ope	n —; \	vasl	nout —; re	fusal -	; too gra	velly/:	shelly -		
	APE COUN			ART: HH						D: HH					LE TYP	ES
	WARD	·											(sed gr	ab tem	p logr
	APE COUN	TER		ART: HH					EN	D: HH						
DOV	VN		(003		1			8	004	-71	/		invert-		Total &
	att epifaun		_	herring	eggs	`	V	skate					ED DE	SCRIP		
_	Boltenia tu brachiopod		-	lobster moon sn	oil			squid		s spg		ripples ripple tro	uahe		<u></u>) n (n)
_	bushy bry/		+	mussels			 			ncr. spg		ripples	ugns			n
	juvenile co			ocean po				70110	77 01	ior. opg		partial ve	neer c	n grave		n
\rightarrow	cancer cra	-	T	Polymas								el paveme				n
	cod			red encr.	. spg											
-	cunner			red hake												- 3
	dk yellow s		-	sand dol		.14	_					lance in				(n) (n)
_	Didemnum dogfish	COIS	+	sand lan			\vdash	_			Sanu	tance in	Subst	iate	у,	
	Eucratea k	oricata		scallops	ioo jure	.,,						ar auto Tr				
	Filograna i			sculpin	_		\vdash									
	finger spg			sea stars												
	flounder			shells &		<u>nts</u>						dredge m	<u>arks</u>			<u>ر ر</u>
Botto	haddock m temp deg C	4.4	Ϋ́	silver hal	temp der	C 10	\mathcal{H}	Diff	erenc	e dea C 5	ambi	ent light (Onset Tidh	iT v2)		у,	n
Photo	o of sample TAL STILL F	in grab c	n de	ck = #	Р	relim.	visu	al text	ure f	rom VIDEO	or SA	MPLE =	1900			
No.	Cumul. No.			TC) SS	JPG image i	, D	VD	#		Descrip √ = in p	tion hoto		Auk2		ame 5_sta_im	 ig #
1	24	22	24	120	7819						· <u></u>					
2	25		25	510	7820)										
3	26			33	782	1									- 53-	
4	27			305	7822	-		_								
5 6	28		<u>ン0</u>	07	182	2		+				-				
7						\dashv		+								
•						+		+								
8								\rightarrow	/			_				
8				2000 700												

SBNMS Site 5 7, Sta_

CRL	JISE: USG SBN			4015 / 2014		(UTC) 42) _ , 2014		NAV FILE NO	. (VID	EO PE NO.
USC			BNI	ws 58	SB	NMS	1			NSEC. ATION	9	DVD NO.		DVI TIT	D LE NO.
	EO START		RFA		VIDEO I			JRFA	CE			19, 2014	QU	AD	NAV
	THI MIN GO									2006 EI	OT = 0	006 UTC	3	<u> </u>	GPS
	EO ON TOM	UTC 1		IM SS 212		DPH , г	n -5	- /	Lat 42	N deg /∖.	80.	7 <i>8</i> 8 min	Lon V 70 de		1992 ,200 min
SAN	MPLE EN	22	IH, M	M SS 7 ス *	5)	DPH, r			Lat 42	/ /	16	7 min	Lon V 70 de		F,244 min
	EO OFF TOM	UTC +	H-M	M SS		DPH, n	n		Lat 42	N ,	1073	min	Lon V 70 de		2438 min
ore-	tripped —;	no smp	atte	empted	; jaws	partly	ope	n —; '	wash	out —; r	efusal	-; too gra	velly/sl	helly -	_
	APE COUN	TER	ST	ART: H	н мм	SS			ENI	D: HH	MM S	S		SAME	PLE TYPES
	WARD		-	A 177 1					-	5 1111		~		sed gr	ab temp logi
V TA	APE COUN	ITER		ART: F		25 24			ENI	D: HH	MW S			invert-	grab ctd
	att epifaun	<u> </u>			g eggs		1	skat	<u> </u> R				ED DES		
	Boltenia tu			lobste					erites	spg		ripples		901111	y, n
	brachiopod			moon				squi				ripple tro	ughs		y, n
	bushy bry/ juvenile co		╀	musse ocean			-	yello	w en	cr. spg		l ripples partial ve	near or	orave	<u>(y,) n</u> el y, n_
_	cancer cra		-		astia sp	og Di	1					el paveme		giave	y, n
${}$	cod				cr. spg										
_	cunner			red ha			-								
	dk yellow s		<u> </u>	sand o	iollars lance a	dulta	-					l lance in I lance in			1
	Didemnum dogfish	cois	+		ance a		╁	-			sano	i lance m	รนมรเก	ate	<u>y, (n)</u>
	Eucratea k	oricata	1	scallor		113									
\Box	Filograna i	mplexa		sculpir	1										
	finger spg		ļ.,	sea st			↓				A I	(-l.,l.,			
_	flounder haddock		V	snells silver l	& fragm	ients	├					dredge m ent light	arks		y, n y, n
otto	m temp deg C	: यःप	; St	urface (-1	m) temp	deg C /ø	-/	; Diff	erenc	e deg C 5	.7 :	(Onset Tidb	oiT v2)		<u> </u>
Photo DIGI	o of sample TAL STILL F	in grab o PHOTOS	n de OF	ck = # SEABE	: D: Cano	Prelim. n digital	vist G12	ual text 2 came	ure fr ra, 12	om VIDE	O or SA ; jpeg in	MPLE = nages	1		
No.	Cumul. No.			JTC) I SS	JP0 imag		VD	#		Descri √ = in p			Auk20		iame 5_sta_img #
1	29	22	ψ:	301	782	4			e was		400				
2	30		Y 3	44	782	. 1									
O.	•		44	134	782	6		\perp							
3	t			0	782	71									
4	32	1	4		162	-									
4 5	32	1	4		162										
4 5 6	32	1	4		162										
4	32	1	4		162										
4 5 6 7	32		4		162										
4 5 6 7 8	32				(62										

SBNMS Site 5 , Sta_

CRL	JISE: USG SBN			4015 , 2014	JD (L	-		ATE (AY =) - , 2014	1	NAV FILE NO	. l		EO PE NO.	-
USC	S		SBNI		SBN	MS			CC	NSEC. ATION	10	DVD NO.		DVI	D LE NO.	10
	EO START	AT SU		CE VI	DEO EN C HH M		SL	JRFA				19, 2014	1 -	UAD		AV
UIC	HILI MIM 20	,			C IIII W	INI 33				2006 E		0006 UTC		3	G	PS
	EO ON TOM	UTC 22		M SS 902		DPH, 11 4	ー - フ	- 1	La:	N deg	03	3 min	Lon 70 d		1227	
SAN	IPLE EN	UTC 2 3	HH M	1M SS 26		DPH, ir			La:	N deg	. 00	7 min	Lon 70 d	W leg 10), Z	5 min
	EO OFF	UTC	нн м	M SS		DPH, m			Lat 42	l N deg	.066	min	Lon 70 d	W .	2504	
	tripped —;	no smp	ol atte	empted —	-; jaws p	artly o	ope	n; \	wasi	nout —;	refusal	—; too gra	avelly/	shelly -	_	
	APE COUN			ART: HE			·			D: HH					PLE TY	PES
	WARD													sed gr	ab ter	mp logr
V TA	APE COUN	ITER		ART: HE					EN	D: HH						
DOV	VN		ε	0 5	34	Þ				10	24			invert-		ctd
	att epifaun			herring	eggs			skate					ED DI	ESCRIP		
	Boltenia tu brachiopod		+	lobster moon sr	oil			Sube		spg		m ripples n ripple tro	uabe			/ <u>,) n</u>
	bushy bry/			mussels						ncr. spg		ill ripples	ugns			, <u>(n</u> *) , n
	juvenile co			ocean p				70110	** 0.	or. opg		d partial ve	neer	on grav		, n
	cancer cra			Polymas								el paveme				/, n
_	cod			red encr												
	cunner			red hake							 					
	dk yellow s		~	sand do		dea						<u>d lance in</u> d lance in				, (n
	Didemnum dogfish	COIS	+-	sand la							Sam	u lance in	subs	trate	у	<u>(n</u>
	Eucratea k	oricata		scallops							+					
	Filograna i			sculpin												
	finger spg			sea star												
	flounder		14	∕shells &		nts						l/dredge m	arks_			/, n
Botto	haddock m temp deg 0	. 4.7		silver ha	ke Ltemp de	a.C. II.	0	· Diff	erenc	e den C /	l amb	ient light	niT v2\		у	<u>, n</u>
Phote	o of sample TAL STILL I	in grab	on de	ck = #	P	relim.	visu	al text	ure fi	rom VIDE	O or S.	AMPLE =				
No.	Cumul. No.	Tin	ne (L		JPG image	Ţ.,	VD			Descr √ = in	iption		Δuk'	Filer 201401:	name	ma #
1	37	~ ~	C6		1828	- T				. — •••	J010					··· ฮ "
2	-	2	301		1829	\rightarrow			100							
3	*	ŕ	0	133	7830											
4	36		0:	249	7831											CETTON II
5	ļ					\perp										
6						_		\perp								
7								\perp								
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9	ļ		- 1			\perp		\perp			-7-7-					
10								1								
	OF CAMER															

SBNMS Site 50_, Sta_

CRL	JISE: USG SBN			4015 2014	JD (UT	C) [DATE ((UTC) - 2014	हित्र	NAV FILE NO	. (VIDEO TAPE NO.
USC	4111		SBNI		SBNM: STA =	Suz	51	CONSEC. STATION		DVD , NO.	2	DVD TITLE NO.
	EO START HH MM SS		JRFA		TC HH MM		URFA	Sunset		19, 2014 006 UTC	GO PH	NATE OF STREET
	EO ON ITOM	UTC 23	3 4	638	DP	PH, m	7 ~	Lat N 42 deg /		52.5 53 min	Lon \ 70 de	
SAN	IPLE CEN	UTC 23	\	M SS-		'H, m	<u>.</u>	Lat N 42 deg /0	156	7 min	Lon V 70 de	N g (6,137
	EO OFF	UTC	нн м	M SS	DP	H, m		Lat N 42 deg	8000 .56	73 min	Lon V 70 de	and the formation of the con-
pre-	tripped —;	no smp	ol atte	empted -	–; jaws pa	rtly op	en —;	washout —; r	efusal	; too gra	avelly/s	helly —
	APE COUN				H MM SS			END: HH				SAMPLE TYPE
	RWARD		}								, l	sed grab temp
V TA	APE COUN	ITER	ST	ART: H	H MM SS			END: HH	MM S	S		
DOV	VN		0	06	6 C	00		000	25			invert- grab
	att epifaun			herrin	g eggs		skat				ED DE	SCRIPTION
-	Boltenia tu	_	14	lobster		_		erites spg		n ripples		y,
	brachiopod		+	moon s musse		+	squi	ow encr. spg		n ripple tro Il ripples	ugns	y, (V)
	bushy bry/ juvenile co		+	ocean		+	yend	ow end. spg		l partial ve	neer o	
_	cancer cra		_		astia spg		hon	ricales,		el paveme		у,
	cod			red en	or, spg		160	up troub				
-	cunner			red hal		_		, 0				
	dk yellow s		V	sand d		_	-			l lance in I lance in		
-	Didemnum dogfish	COIS	+		ance adult ance juvs	S	+		sanc	i lance in	Substi	rate y,
	Eucratea k	oricata	+	scallop		 -	-		 			
	Filograna i			sculpin								
	finger spg			sea sta								
	flounder		4.,		& fragment	S				/dredge m ient light	arks	<u> </u>
	haddock m temp deg C	: 6.1		silver h		1166		ference deg C 5			oiT v2)	у,
Photo	o of sample	in grab	on de	ck = #	Pre	lim. vis	ual tex	ture from VIDE era, 12 MPixels	O or S/	AMPLE =		
No.	Cumul. No.		ne (U MM		JPG image #	DVE)#	Descri √= in j			Auk2	Filename 014015_sta_im
1	37	234	17	- 1	7832	-	_				-90 -	
3	-		47	40	7833							
4			119	72	7834	0						
5	41		51	01	7836							
			- 122 40					7				
6						ļ						
7												
7						-				-		
7												

SBNMS Site 12, Sta____

CR	UISE: USG SBN		(2014015 May 2014	1 4 2	(C) [ATE AAY	(UTC)	المسارد (2014 ,	ED.	NAV FILE NO	. \	VID TAF	EO PE NO.	2
US(SBNMS SITE 513	SBNM STA ~		or		NSEC. ATION	12	DVD NO.	2	DVI	D LE NO.	2
	EO START			IDEO END	AT S		ACE			19, 2014 006 UTC	QI	UAD		AV
	EO ON		HH MM SS	_	H, m		Lat	N	-39		1	10/	· 360°	PS /
	TTOM MPLE	UTC I	7 064 HH MM SS	DP	PH, m	5,	Lat	NI.			Lon	W .		
	KEN EO OFF	L	> 1/3	r v	H, m		42 Lat		.392	2 min	/U de	NA/	133	min
BO.	TTOM						42	deg		min	70 de	eg '	3388	min
			attempted -			en —					velly/s			DE0
	APE COUN RWARD	ITER	START: H	H MM SS	•		ENI	D: HĤ	IVIIVI S	5		sed gra	ab ten	np logi
V T	APE COUN	ITER	START: H	H MM SS		•	1	D: HH		s 43		invert-		ctd 13
100						1 -1			. (. —				
	att epifaun Boltenia tu		lobster	g eggs		ska	ite perites	cna	storr	n ripples	ED DE	SCRIP		n
	brachiopod		moon	-0.0		squ		spy		n ripples	uahs			<u>n</u> n
II	bushy bry/		musse		-+			cr. spg		l ripples	ugno			n
│ │	juvenile co		ocean	The same of the sa		yen	OW CIT	or. spg		partial ve	neer o	n grave		<u>, n</u>
	cancer cra			astia spg						el paveme		ii giave		, n
	cod		red en		+	†			giav	or paronio				,
<u>│</u> ├ ─ ┤	cunner		red hal			†								
	dk yellow s	spa	sand d			1			sano	l lance in	water	colum	n v.	(n)
	Didemnum			ance adult	s	1				lance in				n.
 - 	dogfish	0010		ance juvs		+	.5.	-m 6	o KVO		11d	/	enal	7).
	Eucratea k	oricata	scallop			1		- 111	hu	word	2_		0	7
11 - 1	Filograna i					1					ed.	1 7	rone	les
	finger spg		sea sta							0		1-1-1	-	
	flounder			k fragment	s	1			traw	/dredge m	arks		У	, n
	haddock		silver h	ake					amb	ent light				, n
Botto	om temp deg C	6.3	; Surface (-1 r	n) temp deg (11.9	; D	ifference	e deg C 5	6 :	(Onset Tidb	iT v2)			
Phot	to of sample	in grab d		Pre	lim. vis	ual te	xture fr	om VIDE	O or SA	MPLE =				
No.	Cumul. No.		ne (UTC) MM SS	JPG image #	DVE) #		Descrij √ = in p			Auk2	Filen 014015	ame 5_sta_ir	ng #
1	42	00	07.27	783.7		\perp								
2	<u> </u>		0804	7838		_								
3			0817	7839	-	\dashv								
4	· .		0837	7840	-	+			72	ALCOHOL TO A STATE OF				
6			0905	7841	-	\dashv								
7			0929	7842	 	\dashv								
8	η.		1070	7844		+								
9	50		1113	7845				200			122	**		
10														
HEIGH	T OF CAMERA	A LENS A	ABOVE SEABE	D = 30 in (76 s)	cm)								TION	I C.

SIZE OF BOTTOM AREA IMAGED AT 30 In ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA USGS STATION 412

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

SBNMS Site 513, Sta

CRUISE: US			4015 2014		(UTC) ナろ	D N	ATE (UTC) 22 Post 2014		NAV FILE NO	. (VIDI	EO PE NO.	7
USGS STA 4/1	s	BNI			NMS	_		C	ONSEC.		DVD	2			
VIDEO STAR			J . 1	1	ND A	T SI	URFA		Т				JAD		AV
UTC HH MM S	S		UTC	НН	MM SS	i					19, 2014 006 UTC	1	2	G	PS
VIDEO ON BOTTOM	UTC H	_	IM SS 2713		DPH,		2			246	6 min	Lon \ 70 de	N .3	457	_
SAMPLE TAKEN	UTC-H		M SS 304)	DPH,	m		La 42	t N deg No	 つ. つ :	57 min	Lon V	N g20	.351	min
VIDEO OFF BOTTOM	UTC H				DPH, i	n		La		563	_		N . 35		min
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bushy bry		-	mussels	all		\vdash			ncr. spg		ripple tro	ugris		<u>у</u> ,	
juvenile co		H	ocean po	ut			yeno	W 01	ici. spg		partial ve	neer o	n grave		, <u>"</u>
cancer cra		T	Polymasi		<u> </u>	T					el paveme		rgiaro		, n
cod			red encr.		٠	†				37.5.1					
cunner			red hake												
dk yellow		K	sand doll								lance in			n y,	(n)
Didemnur	n cols	100	sand lan							sand	lance in	subst	ate	у,	(n)
dogfish		Ш	sand lan	ce ju	vs	<u> </u>									
Eucratea			scallops			<u> </u>	<u> </u>								
Filograna		lacksquare	sculpin												
finger spg			sea stars	_		-						-			
flounder		~	shells & f		ents	┼—					dredge m	arks			<u>, n</u>
haddock Bottom temp deg	0.6.7	<u> </u>	silver hak		ea C //	a	· Diff.	erene	A C Z neh er		ent light	iT v2)		y	, n
Photo of sample DIGITAL STILL	in grab o	n de	ck = #		Prelim.	vist	ual text	ure f	rom VIDEO	O or SA	MPLE =	<u></u>			
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EIGHT OF CAMER ZE OF BOTTOM A	AEA IMAG	ED.	AT 30 in ABC	OVE SE	(70 cm) EABED :	= 30	x 20 IN	(76 x	51 CM) C	DNSE	STA 13	_usgs	STAT	ION_	f11:

SBNMS Site S 14, Sta_

CRUISE: USC SBN			4015 / 2014		(UTC) 「う		ATE (;) , 2014		NAV FILE NO	. (VID	EO PE NO.	2
USGS STA 4114	f s	BNI			MS				ONSEC.	14	DVD NO.	2	DVI	D LE NO.	4
VIDEO START	T AT SUI	RFA		DEO E			JRFA	Œ	Sunset	May	19, 2014	QL	JAD	N	AV
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VIDEO ON BOTTOM	UTC H		IM SS	0	DPH,	4	りゃ	La 42	t N deg / ,	235	Ψ min	Lon \ 70 de	w eg 2	.358 0,35	7min
SAMPLE TAKEN	UTC H		0 49)	DPH,	m		La	t N			Lon \	W	1338	
VIDEO OFF BOTTOM	итс_н	H_M	IM-SS		DPH,	m			t N , ; deg	2720	min	Lon \ 70 de		395	min
pre-tripped —;	no smpl	atte	empted —	; jaws	partly	ope	n —; 1	vasl	hout —; re	efusal	—; too gra	velly/s	helly -	-	
V TAPE COUN	NTER	ST	ART: HH	MM	SS			EN	ID: HH	MM S	S		SAME	LE TY	PES
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brachiopo		┝	moon sr			+-	squid				ripple tro	ugns		<u>у</u>	
bushy bry/ juvenile co		⊢	mussels			ا			ncr. spg		l ripples partial ve	noor o	n araw		, n , n
cancer cra		╁	ocean po		,	-	mv				el paveme		ii yiave		<u>, ''</u>
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cunner			red hake							100	//	716			
dk yellow	spa		sand do			+			-	sand	l lance in	water	colum	n v.	(n)
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dogfish	10010		sand lar							-					
Eucratea I	oricata	V	scallops			+			_				-	_	
Filograna		Г	sculpin			1			• **						
finger spg			sea star												
flounder		V	shells &		ents				•	trawl	/dredge m	arks		(ŷ) n
haddock			silver ha	ke		Ī				ambi	ent light			ý	, n
Bottom temp deg 0	34.4	; Şı	ırlace (-1 m)	temp d	eg C /	0.9	; Diff	eren	ce deg C 🂪	5;	(Onset Tidb	iT v2)			
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EIGHT OF CAMER ZE OF BOTTOM A	IA LENS A	BOV	E SEABED	= 30 in	(76 cm)	20 IN	170 .	61 CM) C	ONSE	C STA 1	fusc	e eta	TION L	 {{}^{+}}!

SBNMS Site 5 , Sta

CR	UISE: USGS A SBNMS		14015 ry 2014	JD (UTC) , 2014		NAV FILE NO	٦.	VID	EO PE NO.	2
US ST	GS	SBN	IMS 52	SBNMS STA	,		CC	NSEC. ATION	5	DVD NO.	2	DVI	D LE NO.	5
	DEO START AT		ACE VID	EO END		URFA		Sunset:	May	19, 2014 006 UTC	QU	AD	N/	AV
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SA	MPLE JUT		MM SS (56)	DPH			Lat				Lon V	V	1258	
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	att epifauna	- - -	herring e	- 1		skat	e			SEAB	ED DE	SCRIP	TION _	
IJĦ	Boltenia tunic.	$\neg +$	lobster	33"	\top			spg	storr	n ripples)n
	brachiopod		moon sna	ail		squi	d			n ripple tro	ughs			\bigcirc
	bushy bry/hyd		mussels			yello	w er	icr. spg		II ripples				n
	juvenile cod		ocean po			↓				i partial ve		ı grave		<u> </u>
١Ш	cancer crab		Polymast						grav	el paveme	nt	_	у,	<u>, n</u>
	cod		red encr.	spg										
ΙЩ	cunner		red hake		_	+								
	dk yellow spg	v	sand doll		_	-				d lance in			n y,	
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ıН	dogfish		sand lan	ce juvs	_	+			-		77.11		1000	1.0
ΙН	Eucratea lorica		scallops			-			020	nge's	ed,	Mrs.	ivous	45
	Filograna imple	exa 1	sculpin		+	╂			600	insid	<u>e </u>			
ΙН	finger spg		sea stars		+	+					and the second			n
ΙН	flounder		shells & f			+				<u>l/dredge m</u> ient light	arks			<u>n</u>
Bott	haddock om temp deg C 5 i	7 . 9	silver hak		11.4	Dif	ferenc	e dea C 5			oiT v2)		у,	, n
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HEIGH	IT OF CAMERA LE	NS ABC	VE SEABED =	30 in (76 c	m) m)	N 20 IN	I (76 v	51 CM) C	ONSE	C STA 15	USG	S STA	TION	4115

SBNMS Site<u>5 2</u>, Sta_

CR	UISE: USG SBN			1015 2014		UTC)	D. M	ATE (UTC Jろ) , 2014		NAV FILE NO	. (EO PE NO.	2
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	juvenile co			ocean po							sand	partial ve		n grav		/, n
	cancer cra	b		Polymas		1					grav	el paveme	nt			<u>/, n</u>
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\Box	haddock		-	silver hal				77.617				ent light				/, n
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IEIGH SIZE O	T OF CAMER OF BOTTOM A	A LENS A REA IMA	GED	E SEABED : AT 30 in AB(= 30 IN (OVE SE	(76 CM) :ABED =	= 30	x 20 IN	(76 x	51 CM) C	ONSE	C STA 16	USG	S STA	TION	4116

SBNMS Site 53, Sta_

SINTE SINT	CRUISE: USGS A SBNMS		143			3, 2014		NAV FILE NO	. \	VIDI	EO E NO.	2
VIDEO ON BOTTOM UTC HH MM SS DPH, m 2006 EDT = 0006 UTC 2 GPR DOTTOM C/ 43 DPH, m 24 deg 1/70 min 70 deg 1/4.336 in 70 d		SBNMS SITE	SBNMS	-			7		2			7
Note on the property of the					RFAC	E Sunset	May 1	19, 2014	I .	_	N	AV
SAMPLE TAKEN OF HH MM SS DPH, m Lat N 42 deg // 743 min To deg / 4.33 6 Lat N 42 deg // 743 min To deg / 4.33 6 Lat N 42 deg // 743 min To deg / 4.33 6 Lat N 42 deg // 743 min To deg / 4.33 6 Lat N 42 deg // 743 min To deg / 4.33 6 Lat N 70 deg / 4.33 6 Lat N 42 deg // 743 min To deg / 4.33 6 Lat N 70 deg / 4.25 7 To de	UIC HR MINI 33	010	- HI WIW 33			2006 E				l.		
VIDEO OFF BOTTOM VIDEO OFF BO	VIDEO ON				/		.70	37 4 min		••		
VIDEO OFF BOTTOM	SAMPLE	The second secon	DPH, n	n		Lat N 42 deg //	.74	3 min			1.215	min
VTAPE COUNTER FORWARD VTAPE COUNTER DOWN START: HH MM SS DOWN att epifauna herring eggs state state state of the state	VIDEO OFF	TC HH MM SS	DPH, n	n		Lat N					180	min
VTAPE COUNTER DOWN VTAPE COUNTER DOWN At epifauna A terring ags A terring ags	pre-tripped —; no	smpl attempted —;	jaws partly	ope	n —; w	ashout; r	efusal -	—; too gra	velly/s	helly -	-	•
At the pidauna herring eggs skate SEABED DESCRIPTION Boltenia tunic. lobster Suberites spg storm ripples Suberites spg Suberites spg storm ripples Suberites spg Sube	V TAPE COUNTE	R START: HH	MM SS			END: HH	MM S	S		SAMP	LE TY	PES
att epifauna herring eggs skate SEABED DESCRIPTION Boltenia tunic. lobster Suberites spg storm ripples Suberites spg bushy bry/hyd mussels yellow encr. spg small ripples Y. in spellow encr. spg small ripples Suberites spg sylin ripple troughs y. in spellow encr. spg small ripples Suberites spg spand partial veneer on gravel y. In spellow spg spellow spg spand dollars Suberites Suber	FORWARD									sed gra	ten	np logr
att epifauna herring eggs skate SEABED DESCRIPTION Boltenia tunic. lobster Suberites spg storm ripples Storm r										invert-	grab (ctd 17
Boltenia tunic. lobster Suberites spg storm ripples The process Suberites spg storm ripples The process Suberites spg squid squid	att epifauna			1	skate			SEAB	D DE	SCRIP	TION	
bushy bry/hyd mussels yellow encr. spg small ripples y, juvenile cod ocean pout sand partial veneer on gravel y, cancer crab Polymastia spg gravel pavement y, cod red encr. spg cunner red hake dk yellow spg v sand dollars sand lance in water column y, dogfish sand lance juvs sand lance juvs Eucratea loricata scallops Filograna implexa sculpin finger spg sea stars flounder v shells & fragments trawl/dredge marks y, haddock silver hake prelim. visual texture from VIDEO or SAMPLE = DIGITAL STILL PHOTOS OF SEABED: Canon digital G12 camera, 12 MPlxels; jpeg images Tilename Auk2014015 sta img 1 2 3 4 5 5 Surface Tilename Time (UTC) JPG mage # DVD # Description Filename Auk2014015 sta img Tilename Auk2014015 sta img Tilename	Boltenia tunic	. lobster										
juvenile cod ocean pout sand partial veneer on gravel y, cancer crab Polymastia spg gravel pavement y, cod red encr. spg cod red encr. spg cunner red hake			ail						ughs			<u>, n</u>
cod red encr. spg red encr. spg red hake dk yellow spg sand dollars sand lance in water column y, (Didemnum cols sand lance adults sand lance in substrate y, (dogfish sand lance juvs Eucratea loricata scallops finger spg sea stars flounder shedock solution 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 PNo. Cumul No. HH MM SS image # DVD # Description Filename Auk2014015 sta img PNO TIME (UTC) Season and the star of			nut	H	yenov	v encr. spg			neer o	n grave		, '' ', n
cod cunner red encr. spg red hake dk yellow spg sand dollars sand lance in water column y, (Didemnum cols sand lance adults sand lance in substrate y, (dogfish sand lance juvs Eucratea loricata scallops Filograna implexa sculpin finger spg sea stars flounder silver hake silver hake substrate Soltom temp deg C 5 2 Surface (-1 m) temp deg C 1/0 Didifference deg C 1/0 Didiff										giaro		, n
dk yellow spg		red encr.	spg									
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dogfish sand lance juvs Eucratea loricata scallops Filograna implexa sculpin finger spg sea stars flounder ✓ shells & fragments trawl/dredge marks y, haddock silver hake ambient light y, southout temp deg C 5 · 5 · Surface (-1 m) temp deg C 1 · Ø · 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 MPlxels; jpeg images No. Currul. Time (UTC) JPG image # DVD # Description Auk2014015 sta_img 1 1 1 1 1 1 1 1 1 1												
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Filograna implexa sculpin finger spg sea stars flounder shells & fragments trawl/dredge marks y, haddock silver hake ambient light y, Bottom temp deg C 5 5 Surface (-1 m) temp deg C 1/ 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. HH MM SS image # DVD # Description Auk2014015 sta_img 1			ce juva	Н								
finger spg				П			-					
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SBNMS Site 54, Sta

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	EO OFF TOM	UTC	HH-M	M_SS_		DPH,	m		La:	t N deg	37	9 min	Lon 70 de		3194	min
pre-	tripped —;	no sm	ol atte	mpted —	; jaws	partly	ope	n;					velly/			
	APE COUN	TER	STA	ART: HE	1 ММ	SS			EN	D: HH	MM S	SS	,	SAMI sed gr	PLE T	YPES emp logr
V TA	APE COUN	TER		ART: HE	1 MM 3				EN	D: HH	MM S	SS	1	invert-		ctd (B
	att epifaun	<u>a</u>	+	herring			\ <u>\</u>	skat	<u> </u>		7 /		FD DE	SCRIF	TION	
	Boltenia tu			lobster	oggo	,		-		sspg	stori	n ripples				y ,∑n
	brachiopod			moon sr			$oldsymbol{oldsymbol{oldsymbol{\bot}}}$	squi				n ripple tro	ughs			у. 🕦
	bushy bry/		\perp	mussels				yello	w er	ncr. spg		Il ripples				<u>y, n</u>
	juvenile co cancer cra			ocean p Polymas			+					i partial ve el paveme		n grav	eı	y, n y, n
	cod	D .	+	red enci		y	+				grav	ei paveille	i ii.			<u> </u>
_	cunner		11	red hake			\top				<u> </u>					
,	dk yellow s	pg	V	sand do			1				san	d lance in	water	colum	ın	y, "(n 🔿
	Didemnum			sand la		dults					san	d lance in	subst	rate		y, 📺
	dogfish			sand la	nce ju	IVS										
	Eucratea lo		V	scallops												
	Filograna i	mplexa	1	sculpin				ļ								
	finger spg		_	sea star			+				ļ. —	14-1			_	
	flounder		44	shells &		ents	+	-				i/dredge m	arks			<u>y, n</u>
	haddock m temp deg C	85.3		silver ha		lea C /	7.7	· Diff	foron	o dea C		ient light	niT v21			y, n
Phote	o of sample TAL STILL F	in grab	on de	ck = #		Prelim	ı. visı	ual text	ure f	rom VIDE	O or S	AMPLE =				
No.	Cumul.		ne (U		JPO		DVD	#		Descri		··· [name	
1	No.	HH	MM I	SS	imag	e# '				√ = in t	ohoto	ļi.	Auk2	201401	5_sta_	img#
2											···					
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9									7.5.50							
10																
HEIGHT SIZE OI	FOF CAMER FBOTTOM A	A LENS REA IMA	ABOV AGED	E SEABED AT 30 in AE	= 30 in	(76 cm) = 30	x 20 IN	(76 x	51 CM) C	ONSE	C STAL) USG	S STA	TION.	4118

SBNMS Site 55, Sta_

	CRUISE: USC SBN		2014015 May 2014	1		DATE ((UTC) 23,201	4	NAV FILE NO.	. (VIDE	E NO.
	USGS STA 4/1		BNMS ITE 56	SBN	MS		CONSEC		DVD -	3	DVD	E NO.
	VIDEO START UTC HH MM SS		RFACE	VIDEO E		SURFA	Sunse		19, 2014 006 UTC	QUA	D	NAV
	VIDEO ON BOTTOM		H MM SS	2	DPH, m) /	Lat N 42 deg	.992	-1	Lon W	ló.	GPS 1482 44[min
	SAMPLE TAKEN	UTC. H	H MM SS		DPH, m		Lat N 42 deg			Lon W		358 min
a gar	VIDEO OFF BOTTOM		H MM SS		DPH, m		1	, 9567	min	Lon W 70 deg	.3	6/1 min
	pre-tripped —;	no smpl	attempted	l d —; jaws	partly of	oen;		refusal -	–; too gra		_	
m	V TAPE COUN		START:				END: HF			5	AMPI	LE TYPES
Ш	V TAPE COUN	ITER	START:				END: HH	/	S		ed gra	
n	DOWN			, ,	50	1 -1 -1	2	ud	OFADE		nvert- g	
U	att epifaun Boltenia tu		lobst	ng eggs er		skal	erites spg	storm	SEABE ripples	ED DES	CRIPT	(v.) n
	brachiopo	dt	moor	n snail		squ	d	g v l in	ripple trou	ughs		y, n
	bushy bry/		muss			yello	ow encr. spg		ripples	2007.00	araval	y, n
	juvenile co			n pout nastia spo	_	+			partial ver I pavemer		gravei	y, n y, n
m	√ cod			ncr. spg				grave	, pareme	:25		, , , ,
	cunner		red h									2
_	dk yellow s	s p g		dollars					lance in t			ı y₁(n)
m .	Didemnum	ı cols		lance ad		_		sand	lance in :	substra	te	y; (ñ)
	dogfish			lance juv	/8	+					Lie	
	Eucratea I		sculp					+			20	111111
	Filograna i	преха	sea s			+					10/17	THE MITTE
	flounder			& fragme	ents			trawi/	dredge ma	arks		(ŷ, n
	haddock		silver	hake				ambie	ent light			y, n
ß	Bottom temp deg (5.0	; Surface (-	1 m) temp de	eg C //. 2	⊢ ; Di	ference deg C	6.2;	(Onset Tidbi	iT v2)		
	Photo of sample DIGITAL STILL I	PHŎTOS	OF SEABE	D: Canon	digital G		era, 12 MPixe	ls; jpeg im				
	No. Cumul. No.		e (UTC) MM SS	JPG image		D#		ription photo			Filena 4015_	ıme _sta_img#
	2			27								
	3				623	-						
	4											
	5	5-22		2					W			
	6											
	7								_			
	8			68		-						
	9											
	10 IEIGHT OF CAMER	ALENOA	DOVE SEAS	ED - 20 1- 1	76 cm\							
h	IZE OF BOTTOM A	M CVIDL N	DED AT 20 P	· VDUA 6E • VDUA 6E	ADED - 2	20 v 20 IV	1 /76 v 51 CM)	CONSEC	STA19	11969	CTAT	ION 4/19

SBNMS Site 56, Sta___

CHU	IISE: USG SBNI			4015 y 2014		F3		IAY		, 2014		NAV FILE NO	.	VID	EO PE NO.	3
USG STA	412	_	SBN SITE	MS 57		IMS		,	CON		20	DVD -	3	DVI	D LE NO.	2
	O START		JRF/		DEO E	ND AT	ΓSI	JRFA	5			19, 2014		UAD		AV
									2	006 EI		006 UTC		6		PS
VIDE	O ON TOM			am ss 3 & 46	,	DPH, r	n -3		Lat N 42 de	g (1	2.17	56 5 min	Lon 70 d	W . eg & .	5246 521	min
SAM				1M SS		DPH, r	n		Lat N			7 min	Lon	10/		
VIDE	O OFF	UTC				DPH, r	n		Lat N 42 de		177	Z min	Lon	107	878	
pre-tr	ripped —; ı	no smp	atte	empted —	: iaws	partly	ope		ı washoı	ut —: r	efusal	-: too ara	veliv/s	shellv –		
	PE COUN			ART: HH							MM S				LE TY	PES
FOR	WARD														ab ten	-
V TAI	PE COUN 'N	TER		ART: HH	O c						MM S	s 52		invert-	grab	Ctd ₂ u
	att epifauna			herring	eggs			skate					ED DE	SCRIP	TION	
	Boltenia tur		\perp	lobster			<u> </u>		erites s	pg		ripples) n
	orachiopod		-	moon sn	ail		<u> </u>	squid				ripple tro	ughs			m
	oushy bry/h		 	mussels			_	yello	w encr	. spg		ripples	10 000) n
_	uvenile cod ancer crat		+	ocean po			12		// 1	,		partial ve		n grave		<u>n</u>
-	od	,	┪	Polymas			-		1/35		grave	l paveme	nτ		у	n .
	unner		+	red encr. red hake			⊢	- "	7.5	7						
-	lk yellow s	00	+-	sand doll			\vdash				cond	Ionee in	water	colum		
	Didemnum		+-	sand lan		ulto	┢					lance in				<u>(n)</u>
	logfish	COIS	+	sand lan			\vdash				sanu	lance in	supși	rate	у,	\bigcirc
	ucratea lo	ricata	-	scallops	ce juv	8					-		-			
-	ilograna in		Y	sculpin			H									
	nger spg	IIPIEXA	+	sea stars												
	ounder		1	shells & f		nte	-				trouis	dredge m	orko			
	addock		+	silver hak		illo	\vdash					ent light	arks			n
	temp deg C	4.7	St			ia C / 0	16	· Diffi	erence d	eo.C. 5	anibi	Onset Tidh	iT v2\		<u>y,</u>	n
Photo	of sample it AL STILL P	n grab c	on de	ck = #	1	relim.	visu	ial text	ure from	VIDE	O or SA	MPLF =	11 42.			
No.	Cumul.			ITC)	JPG	Гр	VD	#		Pescri				Filen		
1	No.	нн	MM	SS i	mage	#		+		= in p	hoto		Auk2	014015	_sta_in	ng#
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5						\bot								-		
5 6 7		W(1)								- 150						
5 6 7 8							-									
5 6 7																

SBNMS Site 57, Sta_

CR	UISE: USGS / SBNMS		014015 ay 2014	143			E (ОТС	3) 3 , 2014		NAV FILE NO		VID	EO PE NO. 3
US ST		SB	NMS E S&	SBNMS STA				ONSEC.	2)	DVD NO.	3	DVI	D NO. 3
	EO START AT	SURI	FACE VID	EO END		URF	ACE			19, 2014 006 UTC	QL 3	JAD	NAV
	EU UN	TC HH	MM SS	DPI	H, m	つ	La	it N deg			Lon V	N	GPS 3081 304 min
SA	MPLE U	ГС НН	MM SS	1 /1	٦ 		La	it N		-0	Lon \	N	
-		_	0021 MM SS	. 11	l, m		La	it N	1795		Lon \	N ,.	203 min
I	tripped —; no	smpl a	ttempted —;	jaws part	ly op	en		aeg		min	70 de velly/s	g	min
VT	APE COUNTE	1 -	TART: HH		• •			ID: HH				SAMF	LE TYPES
\vdash	APE COUNTE		TART: HH				- 1		MM S		\neg	sed gra	
H-	att epifauna	- '	herring			ماد	ate	JU 1		,	ED DE		
\parallel	Boltenia tunica		lobster	gys		_	berite	e ena	storn	n ripples	ED DE	SUNIF	-
H	brachiopod	·	moon sna	ail	_		uid	s spy		ripples	uahe		y, n v, n
H	bushy bry/hyd		mussels	241	\dashv			ncr. spg		I ripples	ugns		(y,)n
	juvenile cod	' 	ocean po	a rt	-	72.7		-5 h		partial ve	noor or	Oravo	the same of the sa
H	cancer crab	_	Polymast		+	1n	rigit	2		el paveme		giave	
\parallel	cod		red encr.		_	+-		- 2	gravi	er paverne	111		y, n
					+	+-			 	•			
$ \rightarrow $	dk vollow spa	-+	red hake		+	+-			605	l lance in	weter	001	n 11 /2
$ \rightarrow $	dk yellow spg	la l				+-							
H	Didemnum co	IS		ce adults	;	+			sanc	l lance in	SUDST	ate	y, 🕥
	dogfish		sand lan	ce juvs	\dashv				 				
	Eucratea Iorica		scallops		_	-							
	Filograna impl	exa	sculpin		+	+-							
J∐	finger spg	\rightarrow	sea stars		+	-			ļ	,,			
∤	flounder	\rightarrow	shells & f			-				/dredge m	arks		у, п
لبيا	haddock		silver hak	е		1	>-//		ambi	ent light			y, n
	om temp deg C ५. to of sample in g TAL STILL PHO								-		iT v2)		
No.	Cumul.	Time	(UTC)	JPG mage #	DVE	Т	•	Descrip √ = in p	otion		Auk20	Filen	ame 5_sta_img #
1													
2						_							***
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10				122		\dashv							
	I I T OF CAMERA LE	NS ABO) OVE SEABED =	30 in (76 cr	n)					<u> </u>			14131

SIZE OF BOTTOM AREA IMAGED AT 30 In ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STA USGS STATION 4 PAGE VALENTINE, USGS COASTAL AND MARINE GEOLOGY PROGRAM, WOODS HOLE, MA SBNMS Site 8, Sta

CR	UISE: USGS SBNM			1015 2014		UTC) F3		ATE () , 201	4	NAV FILE NO	. \	VID TAF	EO PE NO. 3
US ST	GS A 4122	2 8	BNN	159	SBN STA		_		ST	NSEC. ATION	22	DVD -	3	DVI	LE NO.
	DEO START A	AT SU	RFA		DEO EN		SI	JRFA	CE			19, 2014 0006 UTC	Q	UAD 3	NAV
	DEO ON	UTC F	H M	M SS (DPH, m			La 42	N deg	0,9	9945 9 4 min	Lon 70 d	W	GPS -3389 -336min
	MPLE KEN	UTC-1	es.	M-88 212		DPH, m	1		L-61	LIN		760min	Lon 70 d		, 294min
	EO OFF TTOM	UTC F	H M	MSS		DPH, n	1			N deg	196	03 min	Lon 70 de		958 min
pre	-tripped —; n	o smp	atte	mpted -	jaws	partly	ope	n —;	wash	rout —;	refus	al —; too gra	velly/s	shelly -	-
VT	APE COUNT			ART: HH				 _		D: HF				SAME	PLE TYPES
VT	APE COUNT	ER	STA	ART: HH	300	ss 7			EN	D: HH		ss 192	1	sed gra	
\vdash	att epifauna			herring	eggs		400	skate	e.		Ť		•	SCRIP	TION
	Boltenia tun		1	lobster	0990		H			s spg	sto	orm ripples			64
	brachiopod			moon sn	ail			squi	d		gv	l in ripple tro	ughs		У ₁ (П)
	bushy bry/h			mussels				yello	w er	icr. spg		nall ripples			y, n
Щ	juvenile cod		-	ocean po								nd partial ve		n grave	
$ \vee $	cancer crab		1	Polymas							gra	avel paveme	nt		y, n
ΙН	cod		+	red encr.							+				
ΙН	cunner		-	red hake sand dol								nd lance in	wotor	colum	n y, n
H	dk yellow sp Didemnum o		14	sand lar		ilte	 					nd lance in		The second secon	y, (n
IH	dogfish	JOIS	+	sand lar							Sa	ila lalice ili	Subst	late	y, (11
	Eucratea lor	icata		scallops		<u> </u>				-		- T-11-0-1			
╎├┤	Filograna im		T.	sculpin							-				25074000000000
	finger spg		1	sea stars	3										
Ш	flounder		17	shells &	-	nts					tra	wl/dredge m	arks		y, n
ΙП	haddock			silver ha	ke		·				an	nbient light			y, n
Botte	om temp deg C	512	; Su	rface (-1 m)	temp de	gC 1/	•1	; Diff	erenc	e deg C	5.9	; (Onset Tidb	oiT v2)		
Pho DIG	to of sample in ITAL STILL PH	grab o	on de OF	ck = #_ SEABED:	Canon							SAMPLE = g images	N	108	mpl
No.	Cumul. No.		e (U MM		JPG image	# D	VD	#			ription phot		Auk2	Filen 014015	ame ^t 5_sta_img #
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9						1									
10															HIPONE INC
HEIGH	IT OF CAMERA	LENS A	BOV	E SEABED	= 30 in (7	76 cm)	30	v 20 ini	176 v	51 CM\	CONS	SEC STAZZ	USG	S STA	TION 4122

SBNMS Site 5 9_, Sta_

C	RUISE: USG SBNI		2014015 May 2014	1 4 3	D. M	ATE (UTC) 227	EDI	NAV FILE NO	. (VIDEO TAPE	No. 3
	sgs TA 412	3 s	BNMS ITE S []	SBNMS STA	•		CONSEC. STATION	3	DVD -	3	DVD TITLE	NO. 5
	IDEO START TO HH MM SS			EO END AT		JRFA	Sunset		19, 2014 006 UTC	QU/		NAV GPS
	IDEO ON OTTOM		H MM SS 4502	DPH, n	, C	V	Lat N 42 deg 0	.69	92- 9 min	Lon W	•3	486 47 min
	AMPLE AKEN	UTC H	H MM SS 4959	DPH, n	n		Lat N 42 deg	.70	/ min	Lon W 70 deg	14.	.323min
В	IDEO OFF OTTOM		IH MM SS	DPH, n			Lat N 42 deg	.701	min	Lon W 70 deg	'92	245 min
pr	re-tripped —; r		attempted —		ope	ก; เ			-			
	TAPE COUN DRWARD	TER	START: HH	MM SS			END: HH	MM S	S		SAMPLE sed grab	temp logr
	TAPE COUN'	TER	START: HH				END: HH	MM S	s 03	`	nvert- gra	
ं	att epifauna	1	herring e	eggs		skat	e		SEABE	D DES	CRIPTIC	NC
Ⅱ□	Boltenia tur		lobster		\Box		erites spg		ripples			(y,) n
Ⅱ⊢	brachiopod		moon sn	ail	Ш	squi			ripple trou	ıghs		Y. O
-	bushy bry/h		mussels			yello	w encr. spg		l ripples			y, n
-	juvenile cod		ocean po						partial ver el pavemer		gravei	y, n
JH	cod	,	Polymast red encr.		Н			grave	si paveinei	IL		<u>y, n</u>
	cunner		red hake		\vdash			_				
Ⅱ⊢	dk yellow s	na	sand doll		\vdash			eand	l lance in	vater c	olumn	y, (n)
	Didemnum			ce adults	Н				lance in			y, (n)
* -	dogfish	0013	sand lan		\vdash			Sand	i laite iii .	Jubatia		y
	Eucratea lo	ricata	scallops	00 1040	Н							
	Filograna in		sculpin		\vdash							8
1	finger spg	Ιριολα	sea stars									
	flounder			ragments	П			trawl	/dredge ma	arks		y, n
	haddock		silver hak	e	\Box			ambi	ent light			y, n
Во	ttom temp deg C	5.8	Surface (-1 m)	temp deg C - tl	·b	; Diff	erence deg C 5	8:	(Onset Tidbi	T v2)		
Ph	oto of sample i	n grab o		Prelim.	visu	al text	ure from VIDEO	or SA	MPLE =			
No	o. Cumul. No.		e (UTC) MM SS i	JPG mage # D	VD	#	Descrip √ = in p			Auk20	Filenam 14015_s	ne sta_img #
1						+						
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5	,											
6	+ +					-						
8	-					+						
9	1											Tarrier and 1
10	2						S -0					
HEIG	SHT OF CAMERA	LENS A	BOVE SEABED =	30 in (76 cm)	20.	- 20 IN	/78 × 51 CM) C(NICE	C STA23	Hege	STATIC	W 4/23

SBNMS Site 5//, Sta_____

110	uise: Usg Sbni			1015 2014		3	M	AY 2	3	, 2014	17.	NAV FILE NO	. (VID	PE NO.	3
	GS 4 4 (24	f S	BNN	15 512	SBN STA	MS			CON	ISEC. TION 2	4	DVD NO.	3	DVI	LE NO.	6
	EO START		RFA		EO EN		SU	IRFAC	1			19, 2014 006 UTC		JAD	N/	
	EO ON	UTC H		M SS 7		DPH, m	7 /	,	Lat		.603	4			2328 2328	min
SAI	TTOM MPLE	UTC	н м	M SS	_	DPH, m	- 7		Lat	N .			Lon	Ŵ		_
	EO OFF	भादा		032 mss	- /	DPH, m	1		Lat		.643	<u> </u>	Lon	W . 2	225	
BO.	TTOM -tripped —;	no smo	latte	mnted —	iaws	nartly (nne	n' \	42 d	eg		min	70 de	eg		min
V T	APE COUN			ART: HH				,): HH			,,		LE TY	PES
	APE COUN	TED	STA	ART: HH	MM :	SS		-	ENC); HH	MM S	S		sed gr	den den	p logr
	WN	IER		002	-50	3	_		(003		5		invert-		ctd
\dashv	att epifaun			herring (eggs			skate					ED DE	SCRIP		
 	Boltenia tu		+-	lobster	- :I			Sube	erites	spg		ripples ripple tro	ughe			n
\dashv	brachiopod bushy bry/l		+	moon sn mussels	all					r. spg		ripple tro	uyns		<u>y,</u> 	<u>n</u> V n
$\vdash\vdash$	juvenile co		+	ocean po	nit.			Vello	W GIIL	ı. spg		partial ve	neer o	n grave		
_	cancer cral		+	Polymas						-		el paveme		ii giar		n
H	cod	<u> </u>	+	red encr.			_				9 4 4	or parome				
\vdash	cunner		+	red hake												
	dk yellow s	na	1	sand dol							sand	l lance in	water	colum	n y.	(g)
7	Didemnum		+	sand lan		ults				-		l lance in			<u>.</u> y,	
\exists	dogfish	00.0		sand lan												
\neg	Eucratea Id	oricata	1	scallops												
一	Filograna ii		$\overline{}$	sculpin	•											-
\Box	finger spg		+	sea stars			_									
	flounder			shells & 1		nts					trawl	/dredge m	arks		у	n
\Box	haddock		 	silver bal	(e						ambi	ent liaht			У	n
Botte	om temp deg C	6.3	; Su	ırface (-1 m)	temp de	g C //	1	; Diff	erence	deg C 5	14 ;	(Onset Tida	oi T v2)			
Pho	to of sample ITAL STILL F	in grab d	on de	ck = #	F	relim.	visu	ıal text	ure fro	m VIDE	or SA	MPLE =				
	Cumul.			ITC)	JPG	ا	VD	"		Descri				Filen		
	No.				JPG image	# D'	VD	#		Descrip √ = in p			Auk2		ame 5_sta_ir	ng #
1						# D'	VD	#					Auk2			ng#
						# D'	VD	#					Auk2			ng#
1 2						# D'	VD	#	- 4/				Auk2			ng #
1 2 3						# D'	VD	#					Auk2			ng #
1 2 3 4						# D'	VD	#					Auk2			ng #
1 2 3 4 5						# D'	VD	#					Auk2			ng#
2 3 4 5 6 7						# D'	VD	#					Auk2			ng #
1 2 3 4 5 6						# D'	VD	#					Auk2			ng #

SBNMS Site 512, Sta_

CRU	JISE: USG					UTC)		ATE () , 2014		NAV FILE NO	1	VID	EO PE NO.	3
	SBN			2014		3			_				• `	-		
USG STA	1	5 8	SBNN	513	SBN STA				ST	NSEC. ATION	25	DVD · NO	3		LE NO.	7
	O START		IRFA		DEO E			JRFAC	CE	Sunset:	May	19, 2014		IAD	N/	١V
UTC	HH MM SS	i			C HH #	MM 55				2006 ED	T = 0	006 UTC	2	_	GF	PS
	EO ON TOM	UTC	-	M_SS 2350	7	DPH, n			1	t N , deg /0.	427		Lon \ 70 de		3664	min
SAM	IPLE EN	υтс ч	HH_M	M_SS	2_	DPH, n	1000		La 42	t N deg 10	,40	0 min	Lon \ 70 de	N/8	140	min
VIDE	O OFF	UTC				DPH, n	n			t N , 4	1896	min	Lon \ 70 de	_	4045	min
	ripped ;	no smn	i atte	moted	L ∵iaws	partly	one	n —: \	was	nout: re	fusal	—: too gra	l evellv/s	hellv -		
_	PE COUN			ART: HH			مرم	,	EN	D: HH	MM S	S	<u>, , , , , , , , , , , , , , , , , , , </u>		LE TY	PES
	WARD	IER												end as	ob Gon	n logr
	APE COUN	TER	STA	ART: HH	MM	SS			EN	D: HH	MM S	S	$\neg \neg$	sea gr	ab ten	
DOW		ILI		031						004	10	4		Invert-	grab (cld 25
	att epifaun	a	Ť	herring			Τ	skate	_		<u> </u>		ED DE	SCRIF	TION	
	Boltenia tu		-	lobster		-				s spg		n ripples				, n
	brachiopod		_	moon sn			$oxed{igspace}$	squi				ripple tro	ughs			n
	bushy bry/		\perp	mussels				yello	w e	ner. spg		I ripples				n_
	juvenile co		+	ocean po			┼	-				l partial ve el paveme		i grave		n n
_	cancer cra cod	<u> </u>	-	Polymas red encr		<u> </u>	╁	<u> </u>			yıav	ei paveine	III		у	, "
-	cunner		+	red hake												
	dk yellow s	pa	\top	sand do			\dagger			·	sand	lance in	water	colum	n y,	n
	Didemnum			sand lar		ults	\vdash				sand	lance in	subst	rate	/y ₁	n
-	dogfish			sand lar	nce ju	/S						mar	111	-	fiv-1	
	Eucratea lo	oricata		scallops									1		ca	
	Filograna i	mplexa	_ <	sculpin							56	m- Gu	MVD +	urd	iracle	0
	finger spg		\perp	sea star			↓_				<u> </u>	V	. 1 .			
	flounder		\perp	shells &		ents						l/dredge m	arks			<u>, n</u>
	haddock m temp deg C			silver ha		00 C 1	 _	- Diff	foron	co dog C - É		ient light	iT v2\		у	n
Photo	o of sample TAL STILL F	in grab	on de	ck = #		Prelim.	vist	ual text	lure i	rom VIDE	O or S	AMPLE =	7 VE	N	Smi	al
No.	Cumul. No.		ne (L MM		JPG image		DVD	#		Descrip √= in p			Auk2		iame 5_sta_in	ng #
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IEIGHT	OF CAMER	A LENS	ABOV	E SEABED	= 30 in	(76 cm)	- 30	x 20 IN	J (76	x 51 CM) C	ONSE	C STA	USG	S STA	TION U	125

SBNMS Site 513, Sta_

SBNMS	AUK2014 May	4015 2014	JD (UTC)	DA MA	ATE (I AY ₂	UTC) 3,2014	NAV FILE NO). I	VIDEO TAPE N	10. 3
USGS ()	SBNI	VIS	SBNMS			CONSEC	DVD	3	DVD	
STA 4/26	7.0	513	STA			STATION	NO.		TITLE	
VIDEO START AT	SURFA		EO END AT		RFAC	Sunset:	May 19, 2014	QU		NAV
UTC HH MM SS		1010	FIFT WINE 33			2006 ED	T = 0006 UTC	2	-	GPS
	TC HH M		DPH, n	n	,	Lat N	.4794	Lon V	V .40	90
BOTTOM	54	410	7 1 2		5/	_	9 , 480 min		g 18.4	:06 min
SAMPLE	IC-HH M		DPH, n	n		Lat N	1005	Lon V		<i>[[</i>]
//	100000	4129					, 489 min	1	918,4	+Wmin
VIDEO OFF U	TC HH M	IM SS	DPH, r	n		Lat N	4843 min	Lon V 70 de		Z min
BOTTOM						42 deg		1		
pre-tripped —; no				ope	n —; \	washout —; r∈	efusal —; too gr	avelly/si	nelly —	TYPEC
V TAPE COUNTE	R ST	ART: HH	MM SS			END: HH	VIM SS		SAMPLE	TYPES
FORWARD						D*** 150 1111	****	(sed grab	temp log
V TAPE COUNTE	R ST	ART: HH				END: HH	MM 55		invert- grat	ctd)
DOWN		004						- 1		
att epifauna		herring	eggs	\vdash	skate		SEAE storm ripples	ED DES	SCRIPTIO	y, n
Boltenia tunio brachiopod		lobster moon sn	ail	\vdash	Sube	erites spg d	gvl in ripple tro	oughs		v_i n
bushy bry/hyd	. -	mussels	411	\Box		w encr. spg	small ripples			y, n
juvenile cod	-	ocean po	ut _				sand partial ve		gravel	y, n
cancer crab		Polymas					gravel paveme	ent		<u>y,</u> n
cod		red encr.		1						
cunner		red hake		\vdash	 -		sand lance in	water	column	y, n
dk yellow spg Didemnum co			ce adults				sand lance in			/y n
dogfish	-	sand lan								0
Eucratea Iorio		scallops	_					1150		20/11/m
Filograna imp	lexa	sculpin					56 mm GU.	ero t	wel ut	retag
finger spg flounder		sea stars	ragments	\vdash			trawl/dredge r	narks	·	y, n
	_	silver hal	(e				ambient light			y, n
haddock	~ \ I \			5	; Diff	lerence deg C	; (Onset Tid	biT v2)		
haddock Bottom temp deg C	7); s	urface (-1 m)	temp deg U //							
haddock Bottom temp deg C	rab on de	eck = #	Prelim.	. vist	ual text		O or SAMPLE =			
haddock Bottom temp deg C(7) Photo of sample in DIGITAL STILL PHO	rab on de OTOS OF	eck = # SEABED:	Prelim. Canon digital	. visu G12	ual text 2 came	era, 12 MPixels;	O or SAMPLE = jpeg images		Filonam	
Photo of sample in DIGITAL STILL PHO	rab on de OTOS OF	eck = #_ SEABED: UTC)	Prelim. Canon digital	. vist	ual text 2 came	era, 12 MPixels; Descri	O or SAMPLE = jpeg images otion	Auk20	Filename	
haddock Bottom temp deg C Photo of sample in DIGITAL STILL PHO No. Cumul. No.	rab on de TOS OF Time (I HH MN	eck = #_ SEABED: UTC) M SS	Prelim. Canon digital JPG image #	Visu G12 DVD	ual text 2 came #	era, 12 MPixels Descri √ = in p	O or SAMPLE = jpeg images otion whoto	Auk20	Filenam 014015_sl	
haddock Bottom temp deg C Photo of sample in DIGITAL STILL PHO No. Cumul. No.	rab on de TOS OF Time (I HH MN	eck = #_ SEABED: UTC)	Prelim. Canon digital JPG image #	Visu G12 DVD	ual text 2 came #	era, 12 MPixels; Descri	O or SAMPLE = jpeg images otion whoto	Auk20		
haddock Bottom temp deg C Photo of sample in DIGITAL STILL PHO No. Cumul. No.	rab on de TOS OF Time (I HH MN	eck = #_ SEABED: UTC) M SS	Prelim. Canon digital JPG image #	Visu G12 DVD	ual text 2 came #	era, 12 MPixels Descri √ = in p	O or SAMPLE = jpeg images otion whoto	Auk20		
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haddock Bottom temp deg C Photo of sample in DIGITAL STILL PHO No. Cumul. No. 1 2 3	rab on de TOS OF Time (I HH MN	eck = #_ SEABED: UTC) M SS	Prelim. Canon digital JPG image #	Visu G12 DVD	ual text 2 came #	era, 12 MPixels Descri √ = in p	O or SAMPLE = jpeg images otion whoto	Auk20		
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haddock Bottom temp deg C Photo of sample in DIGITAL STILL PHO No. Cumul. No. 1 2 3	rab on de TOS OF Time (I HH MN	eck = #_ SEABED: UTC) M SS	Prelim. Canon digital JPG image #	Visu G12 DVD	ual text 2 came #	era, 12 MPixels Descri √ = in p	O or SAMPLE = jpeg images otion whoto	Auk20		
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haddock Bottom temp deg C Photo of sample in DIGITAL STILL PHO No. Cumul. No. 1 2 3 4 5	rab on de TOS OF Time (I HH MN	eck = #_ SEABED: UTC) M SS	Prelim. Canon digital JPG image #	Visu G12 DVD	ual text 2 came #	era, 12 MPixels Descri √ = in p	O or SAMPLE = jpeg images otion whoto	Auk20		
haddock Bottom temp deg C Photo of sample in DIGITAL STILL PHO No. Cumul. No. 1 2 3 4 5	rab on de TOS OF Time (I HH MN	eck = #_ SEABED: UTC) M SS	Prelim. Canon digital JPG image #	Visu G12 DVD	ual text 2 came #	era, 12 MPixels Descri √ = in p	O or SAMPLE = jpeg images otion whoto	Auk20		
haddock Bottom temp deg C Photo of sample in DIGITAL STILL PHO No. Cumul. No. 1 2 3 4 5	rab on de TOS OF Time (I HH MN	eck = #_ SEABED: UTC) M SS	Prelim. Canon digital JPG image #	Visu G12 DVD	ual text 2 came #	era, 12 MPixels Descri √ = in p	O or SAMPLE = jpeg images otion whoto	Auk20		
haddock Bottom temp deg C Photo of sample in DIGITAL STILL PHO No. Cumul. No. 1 2 3 4 5 6 7	rab on de TOS OF Time (I HH MN	eck = #_ SEABED: UTC) M SS	Prelim. Canon digital JPG image #	Visu G12 DVD	ual text 2 came #	era, 12 MPixels Descri √ = in p	O or SAMPLE = jpeg images otion whoto	Auk20		
haddock Bottom temp deg C Photo of sample in DIGITAL STILL PHO No. Cumul. No. 1 2 3 4 5 6 7 8	rab on de TOS OF Time (I HH MN	eck = #_ SEABED: UTC) M SS	Prelim. Canon digital JPG image #	Visu G12 DVD	ual text 2 came #	era, 12 MPixels Descri √ = in p	O or SAMPLE = jpeg images otion whoto	Auk20		

SBNMS Site 913 , Sta____

CRL	JISE: USG SBNI			015 2014	JD (U1 14 <i>3</i>		DA MA	NTE (1 NY 2	UTC ろ) , 2014		NAV FILE NO	.	VID	EO 3
USC	is U	т.	SBNN		SBNM STA				CC	NSEC. ATION	 27	DVD NO.	3	DVI	D LE NO. 9
VIDI	EO START	AT SU		CE VID	EO END		SUI	RFAC				19, 2014		JAD	NAV
UTC	HH MM SS	i		010	HH MM	55				2006 E	DT = 0	0006 UTC		2	GPS
	EO ON	UTC		m ss		2H, m			La 42	t N . deg (552	6 3 min	Lon 70 de		.4494 ,449min
SAN	MPLE (EN	UTC		M SS		PH, m			La 42	t N deg	0.5	5 8 min	Lon 70 de	W eg l S	5.453min
	EO OFF	UTC	HH_M	M_SS	DF	H, m				t N , deg	557	rq min	Lon 70 de		1524 min
	tripped —;	no smp	ol atte	mpted —	; jaws pa	rtly c	per	1 —; \	vasl	nout —; r	efusal	; too gr	avelly/s	shelly -	-
V T/	APE COUN			ART: HH						D: HH				SAME	PLE TYPES
			STA	ART: HH	MM SS				FN	D: HH	MM S	ss as	F	sed gr	ab (temp logr)
DOV	APE COUN <i>N</i> N	HER	"		t 20					00			pe	invert-	grab ctd
	att epifaun			herring	eggs			skate					ED DE	SCRIP	
	Boltenia tu			lobster						s spg		m ripples			y, n
$\vdash \vdash$	brachiopod		\dashv	moon sn	ail			squie		ncr. spg		n ripple tro Il ripples	ugns		<u>y, n</u>
⊢	bushy bry/			mussels	N. et			yeno	Wei	ici. spg		d partial ve	neer o	n grave	<u>y, n</u> ∋l y, n
┝╌┼	juvenile co		+	ocean po Polymas			\dashv					el partiai ve		grave	y, 11 y, n
-	cancer cra			red encr.			\dashv				grav	of pavorne) I I I		<u>yı</u>
-	cunner		-	red hake			-				1				·-·
┝╌┼	dk yellow s	eng.	+	sand dol		1	\dashv				san	d lance in	water	colum	n y, n
\vdash	Didemnum			sand lar		ts	\dashv					d lance in			/ ý n
├┼	dogfish	1 0013	-	sand lar						·	4		-		
┢	Eucratea k	oricata		scallops	ico ja c		7				172	- 58 N	1 0	will	
\vdash	Filograna i		+	sculpin			\dashv				1 7		l	/	
\vdash	finger spg		\vdash	sea stars											
 	flounder		1	shells &		ts	1				traw	l/dredge m	narks		y, n
\Box	haddock			silver ha	ke		\dashv				amb	ient liaht			ý, n
Botto	m temp deg (71.4	; Sı	rface (-1 m)	temp deg	<u>C //,</u>	5	; Diff	eren	ce deg C		(Onset Tid	biT v2)		
Phot	to of sample	in prab	on de	ck = #	Pro	elim. _'	visua	al text	ure f	rom VIDE	O or S	AMPLE =			
No.	Cumul. No.		ne (L I MM	ITC) ISS	JPG image #	ים	VD :	#		Descr √= in	iption photo		Auk2		iame 5_sta_img #
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3								_1						· v	IDEO
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8						1		_ _							
9								_	_						1100
10			8508												
ÆIGH	IT OF CAMER	A LENS	ABOV	E SEABED	= 30 in (76	(cm				_					1177

SIZE OF BOTTOM AREA IMAGED AT 30 In ABOVE SEABED = 30 x 20 IN (76 x 51 CM) CONSEC STATION 1 2 7

											are	<u> </u>				
CRU	JISE: USC SBN	IMS	May	2014	J	D (UT 1 49	C) D	ATE MAY	(UT) 29	2014, 2014	EVI	NAV FILE NO). Z	VID TAI	EO PE NO.	4.
USG STA	4128	3	SBNN SITE	NON	E S	BNMS TA >	1491	EN		ONSEC.		DVD NO.	4.	DVI	D LE NO.	. (
VIDE	O START	AT SU	JRFA	CE	VIDEO	END	AT S	URFA	CE	Support	. Bilanc	19, 2014	Ql	JAD	N	AV
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	EO ON TOM	UTC 14	56	55	-1	DP	H, m 22	1		t N / deg / 3	3.09	90 min			, 944 2,94	
SAM	IPLE EN	UTC	нн м	M SS		DP	H, m			it N deg		min	Lon 70 de			min
	O OFF	UTC 15		M SS		DP	H, m	,	La 42	t N / 2 deg / 3	.034	7 min	Lon 70 de	**	41.012 1011	
	ripped —;		-	/		vs par	tiv ope	en:	1	. /			1	(/		
	PE COUN				HH MI			,		ID: HH					PLE TY	PES
	WARD	HIEN							-							
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DOM		HEN	,		00	Me .	0				5 2			invert-	grab	(ctd) 27
	att epifaun	ıa	1		ng egg			ska	te.		Ī		ED DE	SCRIP	TION	
	Boltenia tu			lobste						s spg	storn	n ripples				/, n
	brachiopo				snail			squ	id			ripple tro	ughs	,		, n
	bushy bry/			muss				yell	ow e	ncr. spg		l ripples	1.			, n
-	uvenile co		\perp		n pout							partial ve		n grave		<u>, n</u>
=	cancer cra	<u>ib</u>			nastia s		_				grave	el paveme	ent			/, n
	cod cunner		+	red e	ncr. spo	3		-			-					
-	dk yellow s		ake dollars		+	\vdash			cano	l lance in	water	colum	n 1/	, n		
	Didemnum		\dashv		lance		2	1				lance in				<u>, n</u> , n
	dogfish	1 0013	_	lance		-				Jane	Tarice III	30031	-		<u>, II , </u>	
	Eucratea k	oricata		scalic		,		<u> </u>			661	5101	1/60	40	lace	
	Filograna i			sculp						(100 5	ma	Cur	Herr	intl
	finger spg			sea s												
	flounder				& frag	ments	5					/dredge n	narks		У	, n
	haddock		ليل	silver								ent light	1000		у	<u>, n</u>
	n temp deg C				m) temp								oil v 2)			
Photo DIGIT	of sample	PHŌTOS	SOF	SEABE		on digi					; jpeg ir		N	05	mp	
No.	Cumul. No.		ne (U' MM			PG ge#	DVD	#		Descri _l √= in <u>r</u>			Auk2	Filen 01401	iame 5_sta_ii	mg #
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4		olle	M	ed			<u> </u>	-/	7	or C	B	5 1	W5		1	1
5									5-1.	2 1	40	1	11	d	<i>b.</i>	/
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8													/			
9								+								
10 IGHT	OF CAMER	A LENS	ABOVE	SFAR	ED = 30	in 176 c	m)									1120
EIGHT ZE OF	OF CAMER BOTTOM A	A LENS A	ABOVE GED A	SEAB AT 30 in	ED = 30 ABOVE	in (76 c SEABE	m) D = 30	x 20 IN	l (76 :	к 51 СМ) С	ONSE	C STA_	USG	S STA	TION_	1128

SBNMS Site____, Sta____

	CRUISE: USG SBN	MS		1015 2014	JD (1	UTC)		ATE (, 2014		NAV FILE NO	. 2	VID	EO PE NO. 4
U	JSGS STA 4129		SBNN		SBN STA	MS	I			NSEC. ATION	28	DVD NO.]_	DVI	
	/IDEO START	AT SL	JRFA		EO EI		SU	IRFA	CE			19, 2014	QI	JAD	NAV
_		MEA			т-	DDU -						006 UTC		1/2	GPS
	IDEO ON BOTTOM	UTC 20	7 /	654		DPH, m	_	7/		deg /2	.456 .45	6 min	70 de		.429 min
	SAMPLE TAKEN	UTC	-	-		DPH, m	1		Lat	N deg/2,	465	min	Lon 70 de	w ∍g /7	766 min
	/IDEO OFF	UTC		M SS		DPH, m	1		Lat 42	N ·	497	min	Lon 70 de	w eg /7	.3921 ,39/ min
7 14 1	ore-tripped —;	_				partly	ope	n 🕣	wash	out +2;)	efusal	—; too gra	avelly/s	shelly -	-
_ \bar{\bar{\bar{\bar{\bar{\bar{\bar{	TAPE COUN			ART: HH						D: HH				SAME	PLE TYPES
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	OOWN			005	2	3	ī					16	D	invert-	
- 11-	att epifaun Boltenia tu			herring of lobster	eggs		_	skate		spg	etorn	SEAB n ripples	ED DE	SCRIP	TION
ll-	brachiopod		+	moon sn	ail			squie		spg		ripples	uahs		y, (f)
	bushy bry/			mussels						cr. spg		l ripples	3		V , n
	juvenile co			ocean po								partial ve		n grave	
	cancer cra	b		Polymas			Щ				grave	el paveme	nt		у, п
┈╟	cod		-	red encr.							<u> </u>				
-	dk yellow s	ng.	+	red hake sand doll			\vdash				eanc	l lance in	water	colum	n y, (n)
	Didemnum		+	sand lan		ults	Н					lance in			y, ①
	dogfish	1 0013	1	sand lan			Н				June	rianoo iii	04401	1010	7, 12
	Eucratea k	oricata		scallops						-	Sas	moled	even	1-1-51	tom 475
	Filograna i	mplexa	\Box	sculpin							br	peops	uto a	Sir/ V	· PZ
	finger spg			sea stars								SAN			
	flounder haddock		+	shells & f		ents						/dredge m ent light	arks		y, n
	Bottom temp deg C	4.8	 ՛: Տա			eq C //	-6	; Diff	erenc	e deg C 6			oiT v2)		(y) n
F	Photo of sample DIGITAL STILL F	in grab	on de	ck = #	F	Prelim.	visu	al text	ure fr	om VIDE	O or SA	MPLE =	M (0 Sw	n pel
	No. Cumul.	Tin HH	ne (U MM		JPG image		VD	#		Descri √= in p				Filer	ame 5_sta_img #
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1	7							+							
	8		363							0.90			10,98		
	9														
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HE SIZ	IGHT OF CAMER E OF BOTTOM A	A LENS	ABOV AGED	E SEABED :	= 30 in (OVE SE	76 cm) ABED =	30	× 20 IN	(76 x	51 CM) C	ONSE	C STAZ8	USG	S STA	TION4129

SBNMS Site 68, Sta_

CF	RUISE: USG SBN			4015 2014	JD (UT	C)		ATE (I	UTC)	, 2014		NAV FILE NO	. 2_	VID	EO PE NO.	4
US ST	GS A 4/3	0	SBNI SITE	MS Cb	SBNMS STA	5			CO	NSEC. ATION	29	DVD NO.	4	DVI		>
	DEO START		JRFA	VIE UTO	DEO END	AT SS	SU	RFAC	E			19, 2014 006 UTC	QI	JAD		AV
	DEO ON	UTC		M SS 647	DP	H, m	2 (Lat	N	62		Lon 70 de	W .	GI 4191 , H	PS 7 min
SA	MPLE _	UTC	HH M	M SS (2.7	DP	H, m	-		- L at	N		2 min	Lon '	W		
VIC	DEO OFF	UTC	нн м	M SS	DP	H, m						3 min				
	ottoM e-tripped ∠;	4		-15/ empted —	; jaws par	tly o	pe	n —; v								mm
VI	TAPE COUN			ART: HH			•			D: HH				SAMF	LE TY	一 、
VI	TAPE COUN	ITER		ART: HH	MM SS					D: HH				sed gra	ab (ten	np logr
100	NWN		Ψ,			-				DI	15	7				2
$\parallel \mid \perp$	att epifaun Boltenia tu			herring lobster	eggs	\dashv	_	skate	_	spg	otor	SEABI n ripples	FD DE	SCRIP) n,
	brachiopod		+	moon sn	ail		\dashv	squic		spg		n ripples	uahs			(b)
	bushy bry/			mussels		\neg	\dashv			cr. spg		I ripples	ugno			n
	juvenile co		-	ocean po			一	,		<u> opg</u>		partial ve	neer o	n grave		, n
	cancer cra		\top	Polymas			\neg					el paveme				, n
	cod	-		red encr												
	cunner			red hake												
	dk yellow s	pg	V	sand dol	lars					•	sand	lance in	water	colum	n y,	(n)
	Didemnum			sand lar	ce adult	S					sand	l lance in	subst	rate		(n)
1	dogfish			sand lar	nce juvs					-						_
	Eucratea lo	oricata		scallops												
	Filograna ii	mplexa		sculpin				_				3-35		-		
	finger spg		<u>لــــاـــ</u>	sea stars			_									
	flounder		/		fragments	3	_					/dredge m	<u>arks</u>		у	
	haddock		ليل	silver ha		اب	ابــ	F2 166				ent light	·= 0\		у.	, n
Pho	om temp deg C oto of sample SITAL STILL F	in grab	on de	ck = #	Pre	lim. v	/isu	al text	ure fr	om VIDE	O or SA	MPLE =		0 8	nps	_
No.	Cumul. No.		ne (U MM		JPG image #	D۱	/D	#		Descrip √= in p			Auk2	Filen 014015	ame 5_sta_ir	ng #
1	2	20	380	14	7859											
2	3		410	8	7860				_							
3						_	_	+								
5						_		+								
6	+												-			
7	+ -							+							3	
8					.,.										D1/05	
9																
10	· .	A LENG	ADOL	E DE ADED	= 30 in (76 c							20				1/20

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

CRI	UISE: USG SBN			4015 / 2014		(UTC)		ATE (, 2014		NA\ FILI	/ E NO	2	VID	EO PE NO.	4
USC STA	GS	5	SBN		,	NMS			CON	SEC.	3∕ 0	IVG) ,	/	DV	D	11
	EO START			<u> </u>	IDEO E		. QI	IDEA	CE			NO.		7	UAD	LE NO.	AV
	HH MM SS		/DF#		TC HH			JULW	5		: May DT = 0				5		PS
	EO ON			5356		DPH, n	n 3 1	24	Lat N	a 14	,53	77	min	Lon 70 de	W eg / 7	.816	4
SAN	MPLE	UTC	HH M	IM SS		DPH, n	- 1	L	Lat N					Lon	W _	- /	
TAK		UTC	_	42E	,	DPH, n			42'de	979	53	06	min	Lon		7810	min
BOT	EO OFF	20	5	921							.560 1.560			70 de	eg / /.	770	min
pre-				empted -			ope	n; 1					o gra	velly/s			
	APE COUN	TER	STA	ART: H	H MM	SS			END:	HH	MM S	S				LE TY	
	APE COUN	TER	ST	ART: H	н мм	SS			END:	НН	MM S	S			sed gr	ab ter	np logr
DOV			(90 i	150	4			DE	2	40	>			invert-	grab (ctd 3
	att epifaun			herring	eggs			skate					EAB	D DE	SCRIF	MOIT	
	Boltenia tu	_		lobster			$ldsymbol{oxed}$		erites s	og		n ripp					<u>y</u> n
	brachiopod			moon s			<u> </u>	squi					le troi	ughs			, n
	bushy bry/l		-	musse				yello	w encr.	spg		l rippl				<u> </u>	
 	juvenile co		-	ocean			H	 							n grave		, n
	cancer cral	0	+		estia spe	9	H				grave	ei pav	/eme	nτ		<u>y</u>	<u>, n</u>
	cunner		+	red end red hak									-				
	dk yellow s	na	1	sand de			\vdash				sand	lland	e in	water	colum	n v	, (n)
	Didemnum		+-	sand la		iults	\vdash							subst			m
 	dogfish	0010		sand la			Н				Jane	10111		04001	1410		\rightarrow
	Eucratea Id	ricata	+	scallop			\vdash										
	Filograna ii		\vdash	sculpin			-							280 (220)	1 70 200		
	finger spg	присла	 	sea sta								7.5	-				1435
	flounder		~	shells &		ents	П				trawl	/dred	ae m	arks		ν	, n
	haddock			silver h		01110	П				ambi						, n
	m temp deg C	4.5	; Ši	THE RESERVE OF THE PERSON NAMED IN		eg C /2	, 7	; Diff	erence d	eg C 7				T v2)			
Photo DIGIT	o of sample i	in grab o	on de S OF	ck = #_ SEABED	: Canon	Prelim. digital	visu G12	al text	ure from ra, 12 N	VIDE	O or SA Jpeg in	MPLI	Ξ=	NO	In Son	ypl	
No.	Cumul. No.			ITC) ISS	JPG image		VD	#		Descrip = in p				Auk2	Filen 01401	ame 5_sta_ir	ng #
1	4			32	7861												
2	5		59	15	786	2											
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4																	
5														WW62T	-325		
6						Ī											
7						Ť											
8								222-									
9																	
10						= =3											
HEIGHT	OF CAMERA	LENS A	BOV	E SEABEL) = 30 in ((76 cm)	ne	00 151	(30 ·· 54	CM C	ONEE	C ET	20	LICC	CCTA	TION (1131

SBNMS Site C/7, Sta___

CRU	ISE: USG SBNi			1015 2014		(UTC) f 9		ATE (;) , 2014		NAV FILE NO	.2	VID	EO PE NO.	4
USG STA	s 413°		1s CH	SBI	NMS A	_			NSEC. ATION	31	DVD NO.	4	DVI			
	O START		RFA			ND AT		JRFA	CE			19, 2014 006 UTC	QU 5	JAD	NA	
		ите-н	did RA	M SS ~		DPH, r	22		La			7317	Lon V		GP	
	O ON TOM	21	14	25	>	-2	2 (8 26	42	deg / S	73	2 min	70 de	g 6	.605	
SAM		UTC F	7 3	M SS		DPH, r	n		Lat		73	2min_	Lon \ 70 de		1591	min
	O OFF	UTC F	H M	M SS 2 9		DPH, r	n		Lat	t N deg / 5	73	85 min	Lon \ 70 de	N og 16.	.5560	ímin
	ripped —;		- (-	-; jaws	partly	ope	n; '	I							
-	PE COUN			ART: HI						D: HH			$\overline{}$		LE TYP	ES
	WARD		_					-						sed gr	ab (tem	p logr
V TA	PE COUN	TER		ART: HI			7		ļ.	D: HH			- [invert-	grab 3\(ctd
	att epifauna	<u> </u>	T 1	herring			T	skat				SEABI	ED DE		_	
	Boltenia tu			lobster	0990					s spg	storn	ripples		33.111	(V)	n
	orachiopod			moon s				squi				ripple tro	ughs_			<u> </u>
	oushy bry/		+	mussels			_	yello	w er	nor. spg		l ripples				n
	uvenile co		╢	ocean p Polyma		.a	-					partial ve el paveme		n grave		n n
	cancer crat	<u>, </u>	+	red enc		y					giave	paveille	111	*	у,	''
	cunner			red hak			\top									
	dk yellow s	pg	V	sand do							sand	l lance in	water	colum	ın y,	(ń)
	Didemnum			sand la	nce a	dults					sand	l lance in	substi	rate	у,	'n)
	dogfish			sand la		IVS										
	Eucratea Id		+	scallops												
	Filograna ir	mplexa	+	sculpin			\vdash	-	-							
	inger spg lounder		1.	sea star		ente	-				trawl	/dredge m	arks		У,	n
	naddock			silver ha		icino	T	<u> </u>				ent light	umo			n
Botton	n temp deg C	4.7	; Su	ırface (-1 m) temp (deg C	11.4	; Diff	erenc	e deg C 💪	7	(Onset Tido	iT v2)			
	o of sample i				Canoi					rom VIDE0 2 MPixels;			NO	(SN	upl	
No.	Cumul. No.	Tim HH	ne (U MM	TC) SS	JP(image		VD	#		Descrij √ = in p			Auk2		iame 5_sta_im	g#
1	6	21	17	39	786	3										
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3						\perp										
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5			_	À.				_								
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9						\dashv		-					-			
10																
HEIGHT	OF CAMERA	A LENS A	ABOV GED	E SEABED	= 30 in	(76 cm)	_ 30	v 20 IN	(76 v	51 CM\ C	ONSE	C STA3/	USG	SSTA	TION 4	132

SBNMS Site 64, Sta 3/

CF	RUISE: USG				JD ((UTC)	D. M	ATE (UTC) , 2014	ı	NAV FILE NO	2	VID	EO PE NO. 4
1	SBN			2014								1	•	_	
ST	GS A 413	*		C12						NSEC. ATION	32	NO.	f		LE NO. 💪
	DEO START		URF		IDEO EN			IRFA	CE	Sunse	t: Mav	19, 2014	QU		NAV
UT	C HH MM SS				тс нн м					2006 E	DT = 0	0006 UTC		2	GPS
	DEO ON OTTOM	2	1	1500		DPH, n	4	32			0.46	68/ 66 min		g 18	270 226 min
	MPLE KEN	UTC-	-HH_N	IM_SS		DPH, n	n		Lat	t N deg		min	Lon W	g	min
	DEO OFF			IM SS		DPH, n	n		La:	N deg /	6.51	9 min	Lon W 70 deg	18	2021 201 min
pre	e-tripped —;	go sm	pl att	empted -	; jaws p	partly	ope	n —;	wast	nout;	refusal	—; too gra	velly/st	nelly -	
V	TAPE COUN				IH MM S					D: HH					PLE TYPES
<u> </u>	RWARD		ет	ADT: H	H MM S	22			FN	D: HH	RAINA S	28		sed gra	
	TAPE COUN DWN	HER	ł			> (0	D: HH 0 3 5	Frem	7	100	invert-	grab ctd
	att epifaun	a			g eggs			skat		/			ED DES	CRIP	TION
	Boltenia tu			lobster			V	Sub	erites	s spg/		n ripples			y, 🕦
	brachiopod			moon				squi				n ripple tro	ughs		y, n
	bushy bry/			musse			<u> </u>	yello	w er	ncr. spg	sma	Il ripples			y, n
Ⅱ⊢	juvenile co			ocean								partial ve		grave	
Ⅱ∟	cancer cra	b			astia spg						grav	el paveme	<u>nt</u>		<u>y, n</u>
\coprod	cod		_	red en			 	_			9	Mleg.	sau	d, 1	norips
Ш	cunner		_	red ha			┡								
	dk yellow s			sand d		-						d lance in			
	Didemnum	ı cols			ance adu		<u> </u>				san	d lance in	substra	ate	y, (n')
11	dogfish		\perp		ance juv	S	lacksquare							-:	
	Eucratea le			scallor			┡				1. 11	Hent			1951-1-1-1
Ⅱ	Filograna i	mplex	a 📉	sculpin			<u> </u>				MA	LLUAN			
I⊫	finger spg			sea sta			<u> </u>				1	14.1			
	flounder		レ		& fragme	nts	┝					l/dredge m	arks		<u>y, n</u>
L	haddock			silver		a.C. /	<u>ا</u> را	1 Diff	0.5000	o doc C t		ient light	iT val		y, n
Pho	tom temp deg C oto of sample SITAL STILL f	in grat	on de	eck = #	F	relim.	visu	al text	ure f	rom VIDE	O or S	AMPLE =	NO O	Sm	nl
No	Cumul. No.		ime (l H MN		JPG image		VD	#		Descr √ = in			Auk20	Filen	ame 5_sta_img #
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2	9		49	103	7866										
3															
4								\perp							
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6	-	2 1				\bot									
7											-	-			
8	2 0				-	_		-	_		_				<u> </u>
9								_	_						
HEIGH	TOF CAMER	AIFNS	S ARON	/F SEARE] D = 30 in (2	76 cm)						7.0		_	15177

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 STATION 4133

CRU	ISE: USG SBN	-		4015 / 2014		(UTC) 19				;) , 2014	ĺ	NAV FILE NO	.2		EO PE NO.	4
USG STA	s 4131	+ 5	BNI	MS C2	SBI	VMS A	-	.,,	CC	NSEC.		DVD 4		DVI	D LE NO.	7
	O START		IRF/			ND A'		JRFAC	CE			9, 2014 06 UTC	QI	UAD		ΙΑV
	O ON	UTC-		The second liverage of		DPH,				t N _ deg / /	1.70	19	Lon	w 16	950	iPS 91
SAM	TOM	UTC	HH-N	0510 IM-88	<u>) </u>	DPH, i		- ~		t N	-67		-Lon		./3/	111111
TAKI	EN ~	27				DPH, I				deg t N	62	min	70 d	eg - W	.96	min 95
BOT	O OFF TOM	22	2	1019					42	deg / 7	.62	⊬ min	70 de	eg / 6	969	
				empted;			оре	en —; v					velly/s			'DEC
	PE COUN WARD	ITER	ST.	ART: HH	MW	SS			EN	ID: HH I	WIM S	>		SAIVII sed gr	PLE TY	mp logr
V TA	PE COUN	TER		ART: HH					EN	ID: HH I				invert-		ctd)33
	att epifaun	a	1	herring e			Τ	skate	<u> </u>		1		ED DE	SCRIF	TION	
	Boltenia tu	nic.		lobster						s spg		ripples		100	VIII	
	brachiopod		_	moon sna	<u>ail</u>		╄	squi				ripple tro	ughs			<u>n (زر</u>
	bushy bry/		+	mussels			┼	yello	w e	ner. spg		ripples	neero	n 01014		<u>/, n</u>
\rightarrow	uvenile co		+-	ocean po			+					partial ve I paveme		n grave		/, n
	cancer cra	D	+	Polymast red encr.		<u>y</u>	╁						ae	d		y, n
\rightarrow	cunner		+	red hake	əpy		╁	-			0	t Vol				
-	dk yellow s	na.	╁	sand doll	ars		+				sand	lance in	water	colum	n v	, (p)
	Didemnum		+	sand lan		lults	╁					lance in				(, (n)
-	dogfish	0013	+				\dagger									- (-)
		oricata	+]	-	+									
		sand la a loricata scallops a implexa sculpin					1									
-	finger spg		1	sea stars			1									
	lounder	•	V	shells & f		ents					trawl/	dredge m	arks		3	y, n
l r	haddock			silver hak	e						ambie	ent light				/, n
Botton	n temp deg C	48	; Si	urface (-1 m)	temp d	leg C /	1.5	; Diff	eren	ce deg C 💪	.7 :	(Onset Tidb	lT v2)			
Photo	of sample	in grab (on de			Prelim.	. visi	ual text	ure l	rom VIDEO	O or SA	MPLE =		Sw	npl	
No.	Cumul. No.			JTC) 1 SS i	JP0 mage		OVD	#		Descrip √ = in p	otion hoto		Auk2		ame 5_sta_i	mg #
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2	1)	(27:	2.6	786	8										
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6						_					_					
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SBNMS Site <u>C2</u>, Sta <u>33</u>

1	UISE: USG: SBNN			1015 2014	149			TE (UTO Y 29	, 2014	.	NAV FILE NO.	2	VIDE	E NO.	4
	GS A 4135		SBNN SITE	N9	SBNMS STA				ONSEC.	34	DVD 4		DVD		0
	DEO START	AT SU	IRFA		EO END		SUR	FACE			9, 2014	QI	JAD	N	AV
												1 "	^		PS
	DEO ON TTOM			540	2)		2	42			// min	Lon 70 de	eg /9	.061	_m
	MPLE KEN	UTC-I		86 347	S DPF	l, m			t N -deg⊋	15	/ <mark>2>min</mark> -	Lon 70 de		062	₂ m
	DEO OFF TTOM	UTC 1		m ss 3901	DPH	l, m		La 42	t N deg 2	1,53	o min	Lon 70 de	W eg 19,	.079	2_ m
pre	-tripped; n	no smp	ol atte	mpted —	; jaws part	ly or	oen-	, was	hout); r	efusal -	; too gra	velly/s	helly —		
	APE COUNT	TER	STA	ART: HH	MM SS			El	ID: HH	MM S	S		SAMPL		
VT	APE COUNT	TER	ST	ART: HH	MM SS			EI	ID: HH	MM S	S		sed gral	o ren	np I
	WN	1211	6	06 4	207	7			00	+7	50		invert- g	rab	Ct
1	att epifauna			herring		$\overline{\top}$	S	skate		1	SEABE	D DE	SCRIPT	ION	
	Boltenia tur			lobster	-555		_	Suberite	s spg	storm	ripples				\sum_{i}
	brachiopod			moon sn	ail		S	squid		gvl in	ripple trou	ighs)
I□	bushy bry/h			mussels		Ţ	У	ellow e	ncr. spg		ripples			у,	•
Ш	juvenile cod		Ш	ocean po		_	\bot				partial ver		n gravel		_
Ш	cancer crab			Polymas		\dashv	+		_	grave	l paveme	<u>nt</u>		у	, I
	cod		+	red encr. red hake		+	+			+					
	dk yellow s	na	+	sand dol			+			sand	lance in	water	column	· V.	, (
	Didemnum				ce adults				•		lance in				(
	dogfish	00.0	11	sand lan		\top	\top								
\Box	Eucratea lo	ricata	~	scallops		8/	Vr	nmin	2	1					
	Filograna in	nplexa		sculpin						1					
, ,	finger spg		\perp	sea stars		_	_				also also so				
\sqcup				snells & silver hal	fragments	+					dredge ma ent light	arks			<u>'-</u>
	flounder			Silver ila	temp deg C	101	9:	Differen	ce deg C	2 :	(Onset Tidb	iT v2)			
Botte	haddock	4,7	; Ši	ırface (-1 m)											
Pho		n grab (on de	ck = #	Preli	im. vi	sual	texture	from VIDE	O or SA	MPLE =	N	0 SM	pl	
Pho DIG	haddock om temp deg C oto of sample in SITAL STILL P	n grab o HOTOS Tim	on de S OF ne (U	ck = #_ SEABED: ITC)	Preli Canon digit	m. vi tal G	sual 12 c	texture amera, 1	irom VIDE 2 MPixels Descri	O or SA ; jpeg im ption	MPLE =		Filena	me	
Pho	haddock om temp deg C oto of sample it SITAL STILL P	n grab o HOTOS Tim HH	on de S OF	ck = #_ SEABED: ITC) SS	Preli Canon digit JPG image #	m. vi tal G	sual	texture amera, 1	from VIDE 2 MPixels	O or SA ; jpeg im ption	MPLE =			me	ng
Pho DIG No.	haddock om temp deg C oto of sample in SITAL STILL P Cumul. No.	n grab o HOTOS Tim HH	on de S OF ne (U MM	ck = #_ SEABED: TC) SS	Preli Canon digit	m. vi tal G	sual 12 c	texture amera, 1	irom VIDE 2 MPixels Descri	O or SA ; jpeg im ption	MPLE =		Filena	me	ng
Pho DIG No.	haddock om temp deg C oto of sample in BITAL STILL P Cumul. No.	n grab o HOTOS Tim HH	on de S OF ne (U MM	ck = #_ SEABED: TC) SS	Preli Canon digil JPG image #	m. vi tal G	sual 12 c	texture amera, 1	irom VIDE 2 MPixels Descri	O or SA ; jpeg im ption	MPLE =		Filena	me	ng
Pho DIG No. 1 2 3	haddock om temp deg C oto of sample in BITAL STILL P Cumul. No.	n grab o HOTOS Tim HH	on de S OF ne (U MM	ck = #_ SEABED: TC) SS	Preli Canon digil JPG image #	m. vi tal G	sual 12 c	texture amera, 1	irom VIDE 2 MPixels Descri	O or SA ; jpeg im ption	MPLE =		Filena	me	ng
Pho DIG	haddock om temp deg C oto of sample in BITAL STILL P Cumul. No.	n grab o HOTOS Tim HH	on de S OF ne (U MM	ck = #_ SEABED: ITC) SS	Preli Canon digil JPG image #	m. vi tal G	sual 12 c	texture amera, 1	irom VIDE 2 MPixels Descri	O or SA ; jpeg im ption	MPLE =		Filena	me	ng
Pho DIG No. 1 2 3	haddock om temp deg C oto of sample in BITAL STILL P Cumul. No.	n grab o HOTOS Tim HH	on de S OF ne (U MM	ck = #_ SEABED: ITC) SS	Preli Canon digil JPG image #	m. vi tal G	sual 12 c	texture amera, 1	irom VIDE 2 MPixels Descri	O or SA ; jpeg im ption	MPLE =		Filena	me	ng
Pho DIG	haddock om temp deg C oto of sample in BITAL STILL P Cumul. No.	n grab o HOTOS Tim HH	on de S OF ne (U MM	ck = #_ SEABED: ITC) SS	Preli Canon digil JPG image #	m. vi tal G	sual 12 c	texture amera, 1	irom VIDE 2 MPixels Descri	O or SA ; jpeg im ption	MPLE =		Filena	me	mg
Pho DIG No. 1 2 3 4 5 6 7	haddock om temp deg C oto of sample in BITAL STILL P Cumul. No.	n grab o HOTOS Tim HH	on de S OF ne (U MM	ck = #_ SEABED: ITC) SS	Preli Canon digil JPG image #	m. vi tal G	sual 12 c	texture amera, 1	irom VIDE 2 MPixels Descri	O or SA ; jpeg im ption	MPLE =		Filena	me	mg
Pho DIG No. 1 2 3 4 5 6 7	haddock om temp deg C oto of sample in ital STILL P Cumul. No.	n grab o HOTOS Tim HH	on de S OF ne (U MM	ck = #_ SEABED: ITC) SS	Preli Canon digil JPG image #	m. vi tal G	sual 12 c	texture amera, 1	irom VIDE 2 MPixels Descri	O or SA ; jpeg im ption	MPLE =		Filena	me	mg

CRU	IISE: USG SBN			1015 2014		(UTC) f 9		IAY2		;) , 2014		NAV FILE NO	2			4
USG STA		36	SBNI SITE	N7	SBN	IMS				ONSEC.	35	DVD NO.	1			9
	O START	AT SL	JRFA		DEO E			URFA	CE			19, 2014 006 UTC	QI	JAD		AV
	O ON	UTC 1	-	M SS	4	DPH,	<u>m</u> 3	1 ,		t N	.70	739 74 min			.46	iPS 7-8 Cmin
SAM	PLE	UTÇ	нн м			DPH,	m	- V	 -			35 min	Lon	W		
	O OFF	UTC				DPH,	m		La		834	5	Lon	w .	1 14	
	TOM ripped —;	no smp	ol atte	empted —	-; jaws	partly	ope	en —; 1			efusal					
V TA	PE COUN			ART: HI						ID: HH				SAME	PLE TY	
V TA	PE COUN	ITER		ART: HI						ID: HH						mp logr
DOW		0	, (7 5	0	_	skate		005	42		D DE			Cid
	att epifaun Boltenia tu		+	herring lobster	eggs					s spg	storr	n ripples	ם טב	JUNII		γ ₁) n
	brachiopod	_		moon si	nail			squi				ripple tro	ughs	(7) n
	bushy bry/	hyd		mussels	3			yello	w e	ncr. spg		ripples			<u> </u>	, n
_	uvenile co		\perp	ocean p										n grave	_	<u>y, n</u>
	cancer cra	b	4	Polyma		1	4_	<u> </u>				el paveme				<u>y, n</u>
_	cod		\bot	red enci			+	ļ			Coled	earg	ax	-04	pc	b_
-	cunner		+	red hake			┵	 				l lanca in				, G
	dk yellow s		+	sand do		la al Am		├					TAPE NO. TAPE NO. TAPE NO. DVD TITLE NO. TITLE NO. TAPE NO. DVD TITLE NO. TAPE			
\rightarrow	<u>Didemnun</u>	COIS	+	sand la		_	+	 			sand	rance in	subst	rate	у	<u>/, (n)</u>
	dogfish	- de e te	+	sand la		vs	+	1	50 44			406	// .	1-11	Vdel	()
	Eucratea lo		+	scallops			-	270	JVU	nnp.	w	nevy	Ca	770	2051	3-4/
_	Filograna i	прижа		sculpin sea star			╁			/						
	inger spg lounder		+	shells &		onte	+				traw	/dredge m	arke		1	y, n
_	naddock		+	silver ha		51118	+-	-				ient light	ains			/, n
Botton	n temp dea C	5.0	: Si	rface (-1 m) temp d	ea C /	1/13	L Diff	eren	ce dea C 6.	3 :	(Onset Tidb	T v2)			
Photo	o of sample FAL STILL F	in grab	on de	ck = #		Prelim	. visı	ual text	ure f	from VIDE	or SA	AMPLE =				
No.	Cumul. No.		ne (U MM		JPG image		DVD	#		Descrip √= in p			Auk2			mg#
1	14	22	51	55	787											
2	15		_5	355	787	2		_								
3						-						,				
4						-		-								
5 6						+		+	- 1						-	
7						\dashv										
8						+										
9						\top			- 52							
10																
EIGHT	OF CAMER	A LENS	ABOV	E SEABED	= 30 in	(76 cm)	_ 2n	v on IN	170 -	v E1 CN/\ C1	ONSE	C STA3 5	HSG	S STA	TION	1136

SBNMS Site N7, Sta___

CRL	JISE: USG SBNI		2014015 May 2014	JD (UT		IAY 2		ļ	NAV FILE NO	.2	VID	PE NO.
USG STA	413-		BNMS ITE N/2	SBNM: STA	S		CONSEC. STATION	36	DVD NO.	4	DVI	E NO.
	EO START			DEO END		JRFA	CE Sunsel	: May	19, 2014	1	AD	NAV
							2006 E		006 UTC	8		GPS
	EO ON TOM	UTC_H	H MM SS	DP	H, m	5 N	Lat N 42 deg 2	7.8	67 min	Lon V 70 de	v g 27	.5786 .576min
SAN	IPLE EN	UTC_H	H MM SS		H, m		Lat N -42 deg 27	.87	3 min			575 min
VIDE	EO OFF TOM	UTC H	H MM SS 3 20 1L		H, m		Lat N 42 deg 2	2.80	904 90 min	Lon V 70 de	v a 77	.5541 ,552 min
-					tly one		washout;					
-			START: H			, , , , , , , , , , , , , , , , , , , 	END: HH					LE TYPES
	APE COUN	IEH	OTAITI. III					111111				
	APE COUN	TED	START: H	H MM SS			END: HH	MM S	S		sed gra	ab (temp logr
DOV		'EN		5421			01		06		invert-	grab ctd 3
	att epifaun	a	herring	<u> </u>		skat	е	1	SEAB	ED DE	SCRIP	
\rightarrow	Boltenia tu		lobster				erites spg		n ripples			(ý .) n
=	brachiopod	_	moon s			squi			ripple tro	ughs		<u>y, (1)</u>
	bushy bry/l juvenile co		mussel		_	yenc	w encr. spg	smai	l ripples I partial ve	noor or	orave	y, n
	cancer cral		Ocean p	stia spg		 			el paveme		yrave	y, n y, n
_	cod		red enc		\dashv	 		giav	or pavorno	•••		<u> </u>
	cunner		red hak							967 - 1242-1		
	dk yellow s	pg	sand do				_	sand	lance in	water	colum	n y, n
	Didemnum	cols		nce adult	S			sand	l lance in	substr	ate	y, (n)
	dogfish			nce juvs								
	Eucratea Ic		scallops		51	eln	141 14g					
	Filograna ir	mplexa	sculpin		+	-	0	-				
	finger spg		sea sta		. -			troud	/dredge m	orke		
_	flounder haddock		silver ha	fragments	-				ient light	aiks		y, n
Bottor	m temp dea C	5.2	: Surface (-1 m) temp dea C	11.3	Diff	ference deg C	(./ :	(Onset Tidb	iT v2)		y, n
Photo	o of sample i	in grab o	n deck = #	Pre	lim, visi	ual text	ture from VIDE era, 12 MPixels	O or SA	AMPLE =		105	nul
No.	Cumul. No.	Time HH	e (UTC) MM SS	JPG image #	DVD	#	Descr √ = in			Auk20	Filen 014015	ame \ 5_sta_img #
1	16	23		7873								
2	17	2	31944	7874								
3				×		970						
4					_	-					-	
5 6						+			-			
7							<u> </u>					
8												
9							44					
10							00000					
EIGHT	OF CAMERA	LENS A	BOVE SEABED	= 30 in (76 c	:m) ≓D – 30	v 20 IN	(76 v 51 CM) C	ONSE	C STA36	USGS	S STA	TION4137

SBNMS Site 12, Sta____

	ISE: USG SBNI		201401: May 20		149			29	, 2014		NAV FILE NO	. 2	TAF	PE NO.	5
USG STA		8	BNMS SITE N	4	SBNMS STA			CC	NSEC. ATION	37	DVD 8	5			1
	O START HH MM SS		RFACE		EO END		URF/	ACE			19, 2014	1 .		NA	
				\perp										GF	
	O ON TOM		н мм s 33		DP	H, m 3	1/		N deg 2	4.1	718 min		w eg Z'		
SAM TAKI	IPLE EN	,	H MM_S	-	DP	H, m	,		t N deg ₂₋ t	.18			w eg 23	31848	min
VIDE	O OFF		и мм s 38			H, m		La	N		2100	Lon \			min
		-	-			tly op	en —	; wasl	nout —; r	efusal	—; too gra	velly/s	helly -		
	PE COUN				MM SS				D: HH				SAME	LE TYP	ES
FOR'	WARD					_					. <u>-</u>		sed gr	ab tem	ıp logr
V TA	PE COUN	TER			MM SS			- 1	D: HH		is 03		invert-	grab	ctd3
	att epifaun			rring e	ggs		ska					ED DE	SCRIP		
	Boltenia tu			ster	**			berite	s spg			aba			
	brachiopod			on sna ussels	aıı	_	squ		ncr. spg			ugns			<u>42</u> n
	bushy bry/l juvenile co			ean po	<u> </u>	_	yeı	IOW 6	ici, spg			neer o	n grave		n
	cancer cra				ia spg				-						n
	cod			encr.											
	cunner			d hake											
	dk yellow s			nd doll								TAPE NO. DVD NO. 9, 2014 06 UTC FIB		<u>(n)</u> ,	
-	Didemnum	cols			ce adult	S				sand	l lance in		у,	(n)	
	dogfish				ce juvs		+-		2 111 0	-			· -		
	Eucratea k			allops	mv	81	1	מת יינו	z ma	29	-				
_	Filograna i	mpiexa		ulpin a stars	U	_	+			-					
	finger spg flounder				ragment		+-			traw	/dredge m			n	
	haddock			ver hak		-	╁				Min 70 deg 73 . (4) 70 deg 73 . (4) 70 deg 70 deg				
Bottor	m temp deg C	5.1	; Surfac	e (-1 m)	temp deg C	11.0	2 ; 0	Differen	e deg C	5.9	(Onset Tidb	oiT v2)			
Photo DIGIT	o of sample TAL STILL F	in grab	on deck =	: # \BED: (lim. vis	ual te		rom VIDE	O or S	AMPLE =				
DIGIT	o of sample TAL STILL F Cumul.	PHŌTO	on deck =	ABED: (Canon dig JPG	lim. vis jital G1	ual te 2 can		rom VIDE 2 MPixels Descr	O or S/ ; jpeg in iption	AMPLE =				
Photo DIGIT	TAL STILL F	PHÖTOS Tin HH	on deck = S OF SEA ne (UTC MM_SS	ABED: (Canon dig	lim. vis	ual te 2 can		rom VIDE 2 MPixels	O or S/ ; jpeg in iption	AMPLE =				1g #
DIGIT	TAL STILL F	PHÖTOS Tin HH	on deck = S OF SEA ne (UTC	ABED: (Canon dig JPG	lim. vis jital G1	ual te 2 can		rom VIDE 2 MPixels Descr	O or S/ ; jpeg in iption	AMPLE =				ng #
No.	TAL STILL F	PHÖTOS Tin HH	on deck = S OF SEA ne (UTC MM_SS	ABED:	Canon dig JPG image #	lim. vis jital G1	ual te 2 can		rom VIDE 2 MPixels Descr	O or S/ ; jpeg in iption	AMPLE =				ng #
No.	Cumul. No.	PHÖTOS Tin HH	on deck = S OF SEA ne (UTC MM_SS	ABED:	Canon dig JPG image #	lim. vis jital G1	ual te 2 can		rom VIDE 2 MPixels Descr	O or S/ ; jpeg in iption	AMPLE =				ng #
No.	Cumul. No.	PHÖTOS Tin HH	on deck = S OF SEA ne (UTC MM_SS	ABED:	Canon dig JPG image #	lim. vis jital G1	ual te 2 can		rom VIDE 2 MPixels Descr	O or S/ ; jpeg in iption	AMPLE =				ng #
No. 1 2 3 4 5	Cumul. No.	PHÖTOS Tin HH	on deck = S OF SEA ne (UTC MM_SS	ABED:	Canon dig JPG image #	lim. vis jital G1	ual te 2 can		rom VIDE 2 MPixels Descr	O or S/ ; jpeg in iption	AMPLE =				ng #
No. 1 2 3 4 5 6	Cumul. No.	PHÖTOS Tin HH	on deck = S OF SEA ne (UTC MM_SS	ABED:	Canon dig JPG image #	lim. vis jital G1	ual te 2 can		rom VIDE 2 MPixels Descr	O or S/ ; jpeg in iption	AMPLE =				ng #
No. 1 2 3 4 5 6 7	Cumul. No.	PHÖTOS Tin HH	on deck = S OF SEA ne (UTC MM_SS	ABED:	Canon dig JPG image #	lim. vis jital G1	ual te 2 can		rom VIDE 2 MPixels Descr	O or S/ ; jpeg in iption	AMPLE =				ng#
No. 1 2 3 4 5 6 7 8	Cumul. No.	PHÖTOS Tin HH	on deck = S OF SEA ne (UTC MM_SS	ABED:	Canon dig JPG image #	lim. vis jital G1	ual te 2 can		rom VIDE 2 MPixels Descr	O or S/ ; jpeg in iption	AMPLE =	In C GUAD IN C GUAD		ng#	
No. 1 2 3 4 5 6 7	Cumul. No.	PHÖTOS Tin HH	on deck = S OF SEA ne (UTC MM_SS	ABED:	Canon dig JPG image #	lim. vis jital G1	ual te 2 can		rom VIDE 2 MPixels Descr	O or S/ ; jpeg in iption	AMPLE =				ng#

SBNMS Site NY, Sta_

VIII BC SAA TAA VIII BC Pree	SBNI GS A 4 36 DEO START C HH MM SS DEO ON OTTOM MPLE KEN DEO OFF OTTOM c-tripped —; o	UTC H	May 201 BNMS ITE RFACE IH MM SS	VIDE UTC	SBNMS STA O END A HH MM SS	T SI	JRFA	CO ST	NSEC. ATION Sunset:	38 May 1	DVD NO. 9, 2014	5	DVC TITL	E NO.	2 AV
VIII BO Pree	DEO ON OTTOM MPLE KEN DEO OFF OTTOM -tripped —;	UTC 1 2 UTC 1 2 UTC 1 2	RFACE H MM SS H MM SS	VIDE UTC	DPH,	s m	JRFA	CE	Sunset:	May 1	9, 2014	QL	JAD	N	AV
VIII BC SA TA VIII BC pree V1 FO	DEO ON OTTOM MPLE KEN DEO OFF OTTOM Detripped —;	UTC + 23 UTC + 2	3 57	123	DPH,	m			2006 FD	T 00					
SA TA VIE BC pre V 1 FO	MPLE KEN DEO OFF OTTOM -tripped —;	2 23 uic + 2	3 57	123	2)	006 UTC		+	G	PS
VIII BC pre VII FO	MPLE KEN DEO OFF OTTOM e-tripped —; of the country	UTC +	H MM 59				- /	Lat	N deg 2-4	· 26	67 5 min	Lon 70 de	w eg 26	168	73 min
pre V 1 FO	DEO OFF OTTOM O-tripped —; OTAPE COUN	UTC +) DFII,			Lat	N deg 24	12,0	66min	Lon 70 de	w eg2(_	(737	2 min
V 1 FO	-tripped —; I		359		DPH,	m		Lat	N deg 2-L	1.2	706 70 min	Lon 1	w 2	019	9 <i>l</i> 9 min
V 1 FO	APE COUN	no smn			aws parth	v one		1							
FO V 1			START:			, op.			D: HH I			,.		LE TY	PES
	RWARD	IEH	OTAIII.												mp logi
	APE COUN	TER	START:			_		EN	D: HH I						
DC	WN		00	0	00.	3			00	La	201	4	invert-	grab	ctd38
	att epifauna		her	ring eg	gs		ska					ED DE	SCRIP		
	Boltenia tui		lob	ster				erites	spg		ripples				<u>n</u>
<u> </u>	brachiopod			on snail			squi				ripple tro	ughs			. @
\vdash	bushy bry/h			ssels		\perp	yelk	ow en	cr. spg		ripples		-		, n
⊢	juvenile co			an pout		-	 				partial ve I paveme		n grave		/, n
-	cancer crai)		ymastia encr. s		+			-	yrave	paveme	TIL .			/, n
\vdash	cunner			hake	pg	+	-								
\vdash	dk yellow s	na		d dollar	rs a	14		al		sand	lance in	water	colum	n v	, (n)
-	Didemnum				e adults	000		171			lance in				, (n)
\vdash	dogfish	COIS		d lance		+	 	_		00.10	Turio III				
\vdash	Eucratea lo	ricata		llops	0 14.0	╅									
-	Filograna ir			lpin		╅	 								
	finger spg	IIDIONG		stars											
\vdash	flounder				agments	1				trawl/	dredge m	arks		\	/, n
-	haddock		silv	er hake		_	\vdash			ambi	ent liaht				/, n
Boti	om temp deg C	5.1	Surface	(-1 m) tei	mp deg C	11.2	. ; Dil	ferenc	e deg C 💪	./_;	(Onset Tidk	oiT v2)			
Pho	oto of sample i	in grab d	on deck =	#	Prelim	n. visi	ual tex	ture fr	om VIDEO	O or SA	MPLE =				
- ·	Cumul.	Tim	ie (UTC)	T.	JPG	D: /C			Descrip	otion			Filen	ame	
No	No.	НН	MM SS	im	nage #	DVD	' # 		$\sqrt{=}$ in p			Auk2	014015	_sta_i	mg#
1	20	23	58 37	7	8-17							- 14			
2							_								
3							_								
4							_								
	-			+			-						828		
	+ +			_					- 70.00					-	
7 8	+ +											17.00			
 9				= 12				_			_	- 22- 3			
10	+						+								
IEIOI	TOF CAMERA OF BOTTOM A	A LENC	BOVE SE	ARED - 2	10 in (76 cm										4130

SBNMS Site V 15, Sta_

CRU	JISE: USG SBN	MS	May	2014	JD (UT		IVI	ATE (14	FILE	/ E NO.	2	VID	EO 5 PE NO. 5
USG STA	/ feet 1 /	- 1	SBNI		SBNM STA	340		1	CONSEC STATION	13	9 DVE NO.)	DVI TITI	LE NO. 3
			IRF.				SU	RFAC	Suns	et: EC	May 19, 20 OT = 0006 L	014 JTC	QU 7	AD	NAV GPS
		UTC I) DF	H, m	3	3 7 \	Lat N 42 deg	2	5.26/	min			.9147 6.9/5 mi
				IM SS	DF	H, m			Lat N 42 deg	2.5	1257	min	Lon V 70 de	y g 2	.9211 6.92/mi
				74	DF	H, m			Lat N 42 deg	2	12455	min			.9442 ,744 mi
pre-t	tripped;	no smp	atte	empted -	–; jaws pa	rtly o	pei	n; \	washout	-; re	efusal —; to	o gra	velly/sl	helly -	
VTA	APE COUN													SAME	PLE TYPES
V TA	APE COUN	TER	ST	_						H 1	MM SS	_		sed gr	
VIDEO ON BOTTOM VIDEO OF BOTTOM VIDEO OF UTC HH MM SS VIDEO OF UT		1	0 (3	EARE	:n ne	SCRIP	TION								
	JUIT	(y,) n													
			+			_	_						ıghs		y, (<u>r</u>
			1			_ †				g					7 9 0 ⊓
													neer or	grave	
															y, n
	cod														
				red hak	(e		\Box								
			V												
		cols				s	\Box		-		sand land	e in s	substr	ate	y, (n
										_					
							_								
-		mplexa	_			\rightarrow	\dashv			\dashv					
			-			_	\dashv				4		- ul : -		
			V			S	\dashv			\dashv			arks		y, r
Bottor	naddock m temp dec C	.5.1	<u> </u>	silver h	aKe n) temp dec (D D	· Diff	erence dea C		ambient li	gnt et Tidbi	T v21		<u>y, r</u>
Photo	o of sample	in grab (on de	eck = #	Pre	lim. v	risu	al text	ure from VII	DEC	or SAMPLI	E =			
Nο						יח	/D	#							ame
110.	+					<u>ا</u> تا		<u>"</u>	√ = i	n p	hoto		Auk20	01401	5_sta_img #
1	21	60	14	22	7878										
2	- 1				1410										
3															
4						_		-							
	1		_					+							
5						\vdash					***	+			
5 6 7															
6															
6															
6 7 8															

SBNMS Site // , Sta_____

	CRUISE: USG SBN		(2014015 May 2014	JD (UTC)	D M	ATE ((UTC) 30	, 2014		NAV FILE NO	2	VID TAF	EO S S
	USGS 414		SBNMS SITE N/5	SBNMS STA			STA	NSEC. ATION	40	DVD NO. 5	_	DVI	E NO.
ľ	VIDEO START			EO END A		JRFA				19, 2014	QU		NAV
								2006 E	T = 0	006 UTC	7		GPS
	VIDEO ON BOTTOM	I .	0405	DPH,	20	7	Lat 42 c	N leg 24	, 33	55 min	Lon W 70 deg	26	.1186 ,119 min
	SAMPLE TAKEN	UTC	HH MM SS	DPH,	m		Lat 42 c	leg		min	Lon W 70 deg	J	min
P	VIDEO OFF BOTTOM	UTC	10931	DPH,	m		Lat 42 c	N leg 24	342	2 min	Lon W 70 deg	26	.7574 159 min
	pre-tripped;	no smp	attempted	jaws partly	ope	en;					velly/sh	elly –	_
	V TAPE COUN FORWARD	ITER	START: HH	MM SS			END): HH	MM S	S		SAMP sed gra	temp logr
ľ	V TAPE COUN	ITER	START: HH	MM SS				D: HH				nvert-	
ŀ	att epifaun	a	herring		т	skat					D DES	CRIP	TION
	Boltenia tu		lobster	2350			erites	spg		n ripples			(y,) n
	brachiopod		moon sna	ail	\Box	squi				ripple tro	ughs		y, (fi)
	bushy bry/		mussels		+	yello	w en	er. spg		ripples			у, п
	juvenile co cancer cra		ocean po		┼-					partial ver		grave	y, n y, n
	cancer cra	U	red encr.		+				grave	si paveille			у, п
	cunner		red hake	<u> </u>									
	dk yellow s	spg	sand doll	ars al	5	~d				lance in			n y, ⟨ŋ⋛
	Didemnum			ce adults					sanc	l lance in	substra	te	y, (n)
	dogfish		sand lan	ce juvs	\perp	ļ		_	ě.			1.7	100000000000000000000000000000000000000
	Eucratea le		scallops		+								
	Filograna i	mpiexa	sculpin sea stars		+								
	flounder			ragments	╁╴	 			trawi	/dredge m	arks		y, n
	haddock		2 silver hal		T					ent light			y, n
	Bottom temp deg C	5.2	; Surface (-1 m)	temp deg C //	1.5	; Diff	ference	deg C	,3 ;	(Onset Tidb	T v2)		
	Photo of sample DIGITAL STILL F	in grab o	on deck = # S OF SEABED: (m VIDE0 MPixels;					
	No. Cumul. No.		ne (UTC) MM SS	JPG mage #	DVD	#		Descrip $\sqrt{=}$ in p			Auk20	Filen 14015	ame 5_sta_img #
	1 20												
-	2								_				
-	3												
}	5					+							
1	6					-	io i		-				
-	7												
1	8												254 1034 mm 3.34
	9						80						
	10												
H	EIGHT OF CAMER	A LENS	ABOVE SEABED	30 in (76 cm)						110	THE THE		1,7517
	IEIGHT OF CAMER IZE OF BOTTOM A AGE VALENTINE, US								ONSE SE	C STA Y º BNMS Site	USGS NIS	STAT Sta_	FION 4147

CR	UISE: USG SBN			4015 2014	1 / 2 10 (I	UTC)		ATE		;) , 2014	ı	NAV FILE NO	. 2	VID	EO PE NO.	5
US ST	GS A 4146	2	SBNI SITE	N4	SBN STA	MS				NSEC. ATION		DVD NO.	5	DVI	D LE NO.	5
	EO START		JRFA		DEO EN		SI	JRFA	CE			19, 2014 1006 UTC	QU.			AV
	DEO ON	UTC				DPH, n		 2/	La 42	t N deg 2	·20	97 209 min	Lon W	1	, 22.	PS 4 <u>尹</u> ∫min
	MPLE KEN	UTC	нн м	653 M SS		DPH, n			La	t N deg	, 2144	, min	Lon W 70 deg	/ 3		min
	EO OFF	UTC		M-55 1 34		DPH, n	n		La 42	ł NI	ack	⊁ Ƴ min	Lon W 70 deg	23	2545 255	min
pre	tripped —;	no smp	atte	mpted -	; jaws r	partly	ope	n —;	was	nout —;	refusal	—; too gra	velly/sh	ielly –	-	
	APE COUN	ITER	ST	ART: HE	MM :	SS			EN	D: HH	MM S	SS			PLE TY	
_	APE COUN	TED	ST	ART: HE	MM S	SS			EN	D: HH	MM S	SS	(sed gr	ab (ten	np logi
DO	WN			00 3	24 3				(27		nvert-		ctdill
\parallel	att epifaun			herring	eggs		_	ska			242.00		ED DES	CRIP		
\parallel	Boltenia tu brachiopod		+	lobster moon sr	ail		\vdash	squi		s spg		n ripples n ripple tro	uahe) n
	bushy bry/		+	mussels			\vdash			ncr. spg		Il ripples	ugiis			n
	juvenile co			ocean p				70				partial ve	neer on	grave		n
	cancer cra	b		Polymas								el paveme				, n
	cod			red encr							<u> </u>					_
\parallel	cunner		1	red hake			<u> </u>				2000.0		_/		<u> </u>	
	dk yellow s Didemnum			sand do		ulto	<u> </u>					d lance in d lance in				
	dogfish	COIS	+	sand la				 			Sam	a lance m	1	Vun		<u>n</u>
	Eucratea lo	oricata	L	scallops		Ž	N	an	7.6	wim	ug		1	- CAPPE	1000	8
	Filograna ii	-			0				11		0			- L	Wy P	VO
	finger spg			sea star											901	
$\parallel \perp \parallel$	flounder		-	shells &		nts	<u> </u>					l/dredge m	arks			, n
Botto	haddock om temp deg C	5.1	· S1	silver ha	Ke Lterno de	o.C. 1/		· Dif	feren	e dea C		ient light	iT v2\		у,	n
Phot	to of sample ITAL STILL F	in grab d	on de	ck = #	F	relim.	vist	ual tex	ture f	rom VIDE	O or S	AMPLE =	., v.,			
No.	Cumul.		ne (U		JPG	Ī,	VD	#		Descr				Filen		
1	No. 23	<u>HH</u>	MM 77	ug ss	image	#	VD	"		√= in	photo		Auk20	14015	_sta_in	ng #
2	24		29	19	7879 7880			1								
3					1000									- 10		
4															2000000	
5				-		\perp		+								
6								+								
8						+										
9																
10																
HEIGH SIZE O	T OF CAMERA	A LENS A	ABOV GED	E SEABED AT 30 in AB	= 30 in (7	'6 cm) ABED =	30	x 20 lh	l (76 x	51 CM) C	ONSE	C STA 4/	USGS	STA	TION	1142

SBNMS Site N4, Sta_____

CRI	UISE: USG SBNM			1015 2014		(UTC) 50		IAY				NAV FILE NO	.2	VID TAF	EO PE NO.	5
USC STA	GS 414-	3 s	BNI	N 12	SRI	VMS	-		CC ST	ONSEC.	42	DVD	5			6
	EO START HH MM SS		RFA		IDEO E			JRFA	CE			19, 2014 006 UTC	1	-		AV
	EO ON	UTC F	H M	M SS + 72	6	DPH,	m 2_(La 42	t N	.8	899 % min	Lon	w	.614	
	MPLE (UTC F	н м		>	DPH, i		• 🗸	La		. 912	14	Lon	W	. 6608	3
VID	EO OFF	UTC +	H-M	M_SS		DPH,	m		1 .	t N deg		min				min
pre-	tripped —; r	no smp	latte	mpted -	–; jaws	partly	оре	en —;	was	hout —; re	efusal	—; too gra	velly/	shelly -	_	
V T	APE COUN			ART: H						ID: HH				SAME	LE TY	
	APE COUN	TER	ST	ART: H		ss 27)	,	EN	ID: HH	MM S	s 46				mp logr ctd42
П	att epifauna			herring				skat	e				ED DE	SCRIP	TION	
	Boltenia tur	nic.		lobster						s spg		n ripples				2) u
\Box	brachiopod			moon s				squi				ripple tro	ughs			<u>, (1)</u>
\vdash	bushy bry/h		-	musse			┿-	yello	ow e	ncr. spg		I ripples	20010			, n
$\vdash \vdash$	juvenile cod cancer crat		+	ocean	pout astia sp	~	-					ı partiai ve el paveme		n grave		/, n /, n
H	cod	<u>, </u>	+	red end		y	╁				grav	ei paveine	irit.			/, "
	cunner		1	red hal			\dagger	 				*				
	dk yellow s	pa	17	sand d			T	apr		-01	sand	l lance in	Lon W .660 70 deg 22.663 Lon W 70 deg 22.663 Lon W 70 deg 22.663 ED DESCRIPTION ughs neer on gravel int water column substrate	n y	(n)	
	Didemnum		1		ance ac	lults	Т	'	-		_					, (n)
	dogfish			sand la	ance ju	vs										
	Eucratea lo	ricata		scallop	s											
	Filograna ir	nplexa	\ \	sculpin	L	3										
	finger spg			sea sta			<u> </u>			_				W .660 leg 22.663 W leg 22.663 W sed grab (a invert- grab ESCRIPTION on gravel Filename		
\rightarrow	flounder		ш	shells &		ents	igaplus					/dredge m	arks			/, n
2-11-	haddock om temp deg C	7 3	Ļ	silver h	ake	lo a C	,}_,	. Dif	foron	an don C. C	amb	ient light	siT v2\		ـــــــــ	/, n
Phot	om temp deg C to of sample i ITAL STILL P	n grab c	on de	ck = #		Prelim	. vis	ual tex	ture 1	rom VIDE	O or S/	AMPLE =) i vzj		***	
No.	Cumul. No.		ie (U MM	TC) SS	JPC image		DVD	#		Descri √ = in p			Auk2			mg#_
1	25	0	148	31	788	1										
2																
3]															
4								\perp								
5	1					\perp		1 2								
6						_						-				
7	1					\perp										
8	+ +		-			_										
9																
10	T OF CAMERA	LENC A	BOV	FCEADE	D = 30 in	(76 cm)	7			1.000			18.31	_		1110-
125 A	T OF CAMERA	DEA IRAA	CED	L JENDEI AT 30 in 4			_ 20	~ 20 IV	J /76 -	- 51 CM\ C	ONSE	C STAV2	1197	S STA	TION	4142

SBNMS Site 1/2, Sta_

CRU	ise: USG Sbni		201401 May 20		JD (L	JTC)	D M	ATE (AY	UTC 30) 751 20)14		NAV FILE NO	2	VID	EO PE NO	5
USG STA			BNMS SITE		SBNI	MS	1 GE	DT.	I CC	INSE	J				DVI)	
				V						ATIO	M ;	1:5	NO.				
	O START	AT SU	IRFACE		EO EN			JRFA	CE								IAV
		LITC 1	нн мм		T	DPH, r			T .								PS_
	OON TOM	02	- 13	50))	3	3	V	42	deg ?	22	.81	73 min	70 de	eg 9	1.49	44 7 ^{mi}
SAM		UTC	HH-MM-	\$6	'	DPH, r	n		La ¹	deg				70 de	eg		mi
	O OFF		HH MM			DPH, r	n		La 42	N deg	22	.84	43 // min	Lon 70 de	W eg / 4	5840 CE	/ mi
		ากรากก	attem	∑ 	iaws n	artiv	ope	n —·									2
	PE COUN			T: HH				······						41011,70			/PES
	WARD	IEN	100	_													
V TA	PE COUN	TER	STAR	T: HH	MM S	SS			EN	D: H	Н	VIM S	S	_	seu gr	au (le	
DOW			0	5 3	7 4	F6				00	l	+3	58		invert-	grab (ctd
	att epifauna			erring e	ggs			skat					SEAE	ED DE	SCRIF	TION	
	Boltenia tu	_		bster						spg							ў , п
	brachiopod			oon sna	ail		-	squi		or or				oughs			<u>n</u>
	bushy bry/t juvenile co			ussels cean po	aut					or. sp				neer o	n grave		<u>y, n</u> y, n
	cancer cral			olymast				L-12/1	//	1					giave		y, '' y, n
-	cod			d encr.											Stor		1/2
_	cunner		re	d hake								7					7
	dk yellow s			and doll		.la -	1_	-									<u>6 (n</u>
lefoon	Didemnum dogfish	cols		and lan							_	sand	i iance in	subst	rate		<u>/, (n</u>
	Eucratea Ic	ricata		callops		.w/					-					No.	
	Filograna ir		$\overline{}$	culpin	Û											10000	
1	inger spg		Se	a stars													
	lounder			nells & f		nts	-						May 19, 2014 T = 0006 UTC 8133 Bin 70 deg 19, 49 Lon W 70 deg 19, 58 Fusal —; too gravelly/shelly — IM SS SAMPLE T sed grab to invert- grab SEABED DESCRIPTION storm ripples gvl in ripple troughs small ripples sand partial veneer on gravel gravel pavement P C W Storm substrate trawl/dredge marks ambient light ; (Onset TidbiT v2) or SAMPLE = peg images tion Filename		<u>y, n</u>		
	naddock n temp deg C	5.1		lver hak ce (-1 m) i		a C /	1,2	; Diff	erenc	e dea (. Z.				y, n		
Photo	of sample i	n grab o	on deck	= #	P	relim.	visu	al text	ure f	rom VI	DEC	or SA	MPLE =				
No.	Cumul. No.	Tim HH	ne (UTC MM S		JPG mage	# C	VD	#				tion hoto		Auk2			img #
1	26	0	2153		1882				-7/								
2	2.7		164		7883												
3	28		173	9	7860	1											
4	29		180	5	7885	2		\perp							27811		
5	(\perp									
6								_								No. 200	
7						_		\perp									_
8						_		\perp			_						
-																	
9								_									_

SBNMS Site N7, Sta_

	UISE: USG SBNI			4015 2014	15	(UTC) - - -		ATE (L AY 3	, 2014		NAV FILE NO	.2	VID	PE NO.
US ST	GS A 4145		BNI	vis C4	SBI	VMS A			CONSEC. STATION	14	DVD NO.	6	DVI	LE NO.
VIL	DEO START HH MM SS		RF#			ND AT	SL	IRFAC	Sunset:		19, 2014 006 UTC	QL	IAD	NAV
	DEO ON	UTC H		im ss		DPH, m	٦	/	Lat N 42 deg	. 30	097	Lon V		GPS • 5 869 • 565 min
ŞA	MPLE	итс н	н м	(-112		DPH, m	_	1 /	Lat N 42 deg / 5	<u> </u>		Lon \	<u>v</u>	
VID	KEN (DEO OFF TTOM	итс н		· ·)	DPH, m	•			9174		Lon V	V	6,614min 6141 min
		no smpi	atte	empted —;	jaws	partly o	ope	n; w	vashout —; re	efusal ·	; too gra	l avelly/s	helly –	
	APE COUN	TER	ST	ART: HH	MM	SS			END: HH	MM S	S	,		PLE TYPES ab (temp log
	APE COUN	TER		ART: HH	MM		シ		END: HH	MM S			sed gr	1
	att epifauna	a	Ĺ	herring e				skate				ED DE	SCRIP	TION
	Boltenia tui			lobster					rites spg		n ripples			<u>(y) n</u>
\vdash	brachiopod		1	moon sna	ail			squid			ripple tro	ughs		ў, <u>(n)</u>
	bushy bry/b		-	mussels ocean po		6		yellov	v encr. spg		l ripples partial ve	neer or) arave	<u>y, n</u> ∋Iy, n
V	cancer cral		╁	Polymast		0					el paveme		Igrave	y, n
	cod	<u> </u>	T	red encr.		9				grave	or paverne	111		<u>,,</u>
	cunner			red hake	opg									
П	dk yellow s	pg	V	sand doll	ars					sand	l lance in	water	colum	n y, (n)
	Didemnum			sand lan	ce ac	luits				sand	l lance in	substr	ate	y , /ń .
	dogfish		Ī	sand lan	ce ju	vs								
	Eucratea Ic			scallops										
Ш	Filograna ir	nplexa	/	sculpin										
Щ	finger spg		-	sea stars		- m.t				Access	lalus al are	ماده		
\vdash	flounder		V	shells & f		ents	-				/dredge m ent light	arks		y, n_
	haddock	2.1			emn c	len C /9	Ş	- Diffe	rence deg C 4	ambi	Onset Tidl	iT v2)		y, n
Botti		- 1 ·	, 0.	mado (1 m)				7			1011001 110			
Pho	to of sample i	n grab o	n de OF	ck = # SEABED: (ire from VIDE0 a, 12 MPixels;					
Pho DIG	to of sample i	n grab o HOTOS Tim	OF e (L	SEABED: (digital (camer		jpeg in		Auk20	Filen 01401	ame 5_sta_img#
Pho DIG	to of sample i ITAL STILL P Cumul.	n grab o HOTOS Tim	OF e (L	SEABED: (JPC	digital (G12	camer	a, 12 MPixels; Descrip	jpeg in otion ihoto	nages		014015	
Pho DIG No. 1	to of sample i ITAL STILL P Cumul.	n grab o HOTOS Tim	OF e (L	SEABED: (JPC	digital (G12	camer	a, 12 MPixels; Descrip √= in p	jpeg in otion ihoto	nages		014015	5_sta_img#
Pho DIG No. 1 2	to of sample i ITAL STILL P Cumul.	n grab o HOTOS Tim	OF e (L	SEABED: (JPC	digital (G12	camer	a, 12 MPixels; Descrip √= in p	jpeg in otion ihoto	nages		014015	5_sta_img#
Pho DIG No. 1 2 3	to of sample i ITAL STILL P Cumul.	n grab o HOTOS Tim	OF e (L	SEABED: (JPC	digital (G12	camer	a, 12 MPixels; Descrip √= in p	jpeg in otion ihoto	nages		014015	5_sta_img#
Pho DIG No. 1 2	to of sample i ITAL STILL P Cumul.	n grab o HOTOS Tim	OF e (L	SEABED: (JPC	digital (G12	camer	a, 12 MPixels; Descrip √= in p	jpeg in otion ihoto	nages		014015	5_sta_img#
Pho DIG No. 1 2 3 4	to of sample i ITAL STILL P Cumul.	n grab o HOTOS Tim	OF e (L	SEABED: (JPC	digital (G12	camer	a, 12 MPixels; Descrip √= in p	jpeg in otion ihoto	nages		014015	5_sta_img#
Pho DIG No. 1 2 3 4 5	to of sample i ITAL STILL P Cumul.	n grab o HOTOS Tim	OF e (L	SEABED: (JPC	digital (G12	camer	a, 12 MPixels; Descrip √= in p	jpeg in otion ihoto	nages		014015	5_sta_img#
Pho DIG No. 1 2 3 4 5 6	to of sample i ITAL STILL P Cumul.	n grab o HOTOS Tim	OF e (L	SEABED: (JPC	digital (G12	camer	a, 12 MPixels; Descrip √= in p	jpeg in otion ihoto	nages		014015	5_sta_img#
Pho DIG No. 1 2 3 4 5 6 7	to of sample i ITAL STILL P Cumul.	n grab o HOTOS Tim	OF e (L	SEABED: (JPC	digital (G12	camer	a, 12 MPixels; Descrip √= in p	jpeg in otion ihoto	nages		014015	5_sta_img#

SBNMS Site C4, Sta

U.F	RUISE: USG SBNI			4015 y 2014		(UTC) 50	D M	ATE (UTC	;) , 2014		NAV FILE NO	.2	VIDE	EO E NO.
US ST	GS A 414		BN	MS CID	SBN	IMS			CC ST	NSEC. ATION	iS	DVD NO.	6	DVD	E NO.
	DEO START		RF/		DEO E			JRFA	1			19, 2014	*	JAD	N
UT	C HH MM SS	}		UTO	СНН	MM SS	i					006 UTC	5		G
VII	DEO ON	UTC F	iH N	IM SS		DPH, r	n		La	i N		5676 7 min	Lon	w eg / 7	.783
	MOTTC			1739				5 /	1		F, 56	- 7 min	1		. 18
	MPLE	UTC. H			$\overline{}$	DPH, r	n		Lat	EN	16	46min	Lon 1	W	76
	KEN	UTC H		222	6	DPH, r			Lat				Lon		
	DEO OFF TOM	WIC T		1101 33		orn, i	**			deg	.645	min	70 de		7546
	e-tripped —;	no smp	atte	empted	: iaws	partly	ope	n —:			efusal	-: too ar	ı aveliv/s	shelly	
	TAPE COUN			ART: HH						D: HH		_		SAMP	
	RWARD												ł	sed gra	b (ter
	TAPE COUN	TER	_	ART: HH	_					D: HH					
DC	DWN		0	_	,	13	,			001	20			invert-	
\vdash	att epifaun: Boltenia tu		+	herring lobster	eggs		-	skate		s spg	etorn	SEAB ripples	ED DE	SCRIP	_
\vdash	brachiopod		+	moon sn	ail			squie		o oha		ripples	ughs		
	bushy bry/l	h y d		mussels		* ** =				ocr. spg	smal	l ripples			У
-	juvenile co		-	ocean po								partial ve		n grave	
\vdash	cancer cra	U	+	Polymas red encr		1	+				yıave	el paveme	111		у
	cunner			red hake)		Ĺ,								
\vdash	dk yellow s Didemnum		~	sand dol		ulto	get:	en	<u>col</u>			l lance in I lance in			<u>у.</u> У
-	dogfish	COIS	t	sand lar							Sano	lance m	อนมอเ	iate	у.
	Eucratea lo		レ	scallops							12			(630)	
	Filograna ii finger spg	mplexa	╄	sculpin sea stars			_								
	flounder		V	shells &		ents					trawl	/dredge m	arks		у
	haddock		2	silver ha	ke			5:44			ambi	ent light			у
	tom temp deg C oto of sample									rom VIDE)(1 V 2)		
DIC	SITAL STILL P	HOTOS	OF	SEABED:											
No	Cumul.	Tim	e (l	JTC)	JPG		VD	#		Descri			Assis	Filena	
_	No. 30			200	image			+		$\sqrt{=}$ in p	noto	-	Aukz	014015	_sta_ii
1	20	0 1	7/6	537	7881	0			-			-			
2								\perp							
3															
3	1 1											1			
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5						+									
4															
5			2527												
4 5 6															
4 5 6 7															
4 5 6 7 8															

CRL	JISE: USG SBNI			4015 / 2014	JD (L	ITC)	D. M	ATE (I AY 3	UTC)	, 2014	الإع	NAV FILE NO	2	VID	EO E NO	<u>.</u> 6
USG STA	414		BNI	A //	SBNI	A 400			CO	NSEC. ATION	-^	DVD NO.	6	DVE	E NC	s. 3
	EO START HH MM SS		IRF/		DEO EN	D AT				2006 E	O = TC	19, 2014 006 UTC	QU	AD		NAV GPS
	EO ON		Marie Land	1M-SS 3655	The state of the s	рн, т 2						313 min	Lon V 70 de	v g (6	. ¥ 2	22 <i>4</i> 2_min
SAN	MPLE CEN	UTC		IM 89 4/54	(OPH, m	1		Lat 42 c	N Jeg (3	7, 7	73 min	Lon V 70 de	y gl6.	39	2_min
	EO OFF	UTC	HH N	IM SS	i	OPH, m			Lat 42 c		.772	-5 min	Lon V 70 de		92:	7- min
pre-1	tripped —;	no smp	atte	empted -/	; jaws p	artly o	ope	n - 31	wash	out —; re	efusal	—; too gra	velly/sl	helly –	-	-
	APE COUN			ART: HH			_			D: HH				SAMP		YPES
	WARD	'-''													. (
			ST	ART: HH	MM S	S			FNI	D: HH	MM S	S		sed gra	ib (t	emp logr
DOV	APE COUN VN	IER		00 l	2_	0 8			C		8	0.		invert-		ctd 4
	att epifauna		_	herring	eggs		~	skate					ED DES	SCRIP		
-	Boltenia tu		4	lobster			<u> </u>	Sube	erites	spg		n ripples				$\frac{\mathbf{y}_{0}^{\prime}}{\mathbf{n}}$
	brachiopod		moon sn								gvi II	ripple tro	ughs			<u>y, n</u>
	bushy bry/l		-	mussels			yello	w encr. spg			l ripples				<u>y, n</u>	
_	juvenile co			ocean pout Polymastia spg								partial ve		grave		<u>y, n</u>
	cancer cral)	+								grav	el paveme	<i>и</i>			y, n
-	cod cunner		+	red encr												
_	dk yellow s	na	1	sand dol							sand	lance in	water (colum	n	y, (f)
	Didemnum		Ť	sand lar		ilte						l lance in				y. n
\rightarrow	dogfish	COIS	+	sand lar							Jan	rance in	30030	ato		<i>I</i> . ()
	Eucratea Ic	ricata	+	scallops			_									
	Filograna ii		1	sculpin				_								
-	finger spg		+	sea stars	3	-										
	flounder		レ			nts					traw	/dredge m	arks			y, n
	haddock			silver ha								ent light				y, n
	m temp deg C	5.3	; Si	urface (-1 m)		C	1.7	; Diff	erence	deg C 🖟	,4:	(Onset Tidb	iT v 2)			
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No.	Cumul. No.			JTC) 1 SS	JPG image i	_# D	VD			Descri _l √ = in p	hoto		Auk20	Filen 014015		_img #
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SBNMS Site 66, Sta

1	JISE: USG SBN	MS	May	2014		50	M		30	, 2014		NAV FILE NO	2	VID	EO PE NO.	6
USC	4148	3	SBNI	MS 8	SBNI STA	MS	15	EDI	CC	NSEC. ATION	17	DVD NO.	>	DVI	D LE NO.	4
VIDI	EO START HH MM SS	AT SU	IRF/	U	IDEO EN TC HH M 23560	ID AT M SS	ΓSI	JRFAC	E		T = 0	19, 2014 006 UTC		AD	NA GF	
	EO ON	(2)	Ż,	IM SS /		DPH, n	m		Lat N 42 deg 2 3			3924 Lon 393 min 70 d				
SAN	IPLE (EN	UTC	HH N	IM SS	26	0 00	n 19:	EDT OMAN	La 42	t N deg / 2	,46	min	Lon V 70 de	v g/7,	409	min
	EO OFF	UTC I	HH N	IM SS	1	OPH, r	n	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		N deg	.460	min	Lon V 70 de		4099	min
pre-	tripped —;	no smp	ol atte	empted -	-; jaws p	artly	ope	n; v	vasi	nout —; re	efusal	—; too gra	velly/s	helly -	_	
V TA	APE COUN			ART: H						D: HH I					PLE TYP	PES p logr
V TA	APE COUN	ITER	ST	ART: H	H MM S					D: HH I				invert-	_	ctd 4)7
	att epifaun	a	-	herring	eggs			skate)			SEABI	D DES	SCRIP	TION	
	Boltenia tu		\top	lobster						s spg	storn	n ripples			(Y	, n
	brachiopod	1	1	moon s	nail			squic			gvl ir	ripple tro	ughs		Ŋ,	
	bushy bry/	hyd		mussel	S			yello	w ei	icr. spg		l ripples			<u> </u>	n_
	juvenile co	d		ocean	out		╙				sand	partial vei	neer or	ı grave	∍l y,	n
	cancer cra	b			stia spg						grav	el paveme	nt		у,	n
	cod			red end			<u> </u>									
\rightarrow	cunner			red hak			上									-
	dk yellow s		V	sand do			_					l lance in				
	Didemnum	cols		Annual Contract of the Contrac	ince adu						sand	l lance in	substr	ate	у,	<u>(n/</u>
	dogfish		┷		nce juv	<u>s</u>	<u> </u>									
_	Eucratea lo		\bot	scallops	<u>s</u>		<u> </u>									
	Filograna i	mplexa	V	sculpin				ļ								
	finger spg		ل ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا	/sea sta			┞	<u> </u>								
	flounder		V		fragme	nts	╙	ļ <u>.</u>				/dredge m	arks_			n
	haddock m temp deg C		Т_	silver h		- 0 11		D'6		e deg C 5		ent light (Onset Tidb			у,	n
Photo	o of sample TAL STILL F	in grab o	on de	eck = #	Canon o	relim.	vist	ual texti	ure f	rom VIDEO 2 MPixels;	or S/ jpeg ir	MPLE =		Filon	ama	
	No. HH MM SS I		/1	ITCI	ID/	DVD #		Description √ = in photo					Filename 014015_sta_img #			
No.		HH	MN	I SS	JPG image	 	VD	#	_				Auk20			
No.		HH	MN 3 5	705	image 7890	F .	VD	#					Auk20			
No.		HH	MN 3 5	I SS	image	F .	OVD	#					Auk20			
No. 1 2		HH	MN 3 5	705	image 7890	F .	OVD	#					Auk20			
No. 1 2 3		HH	MN 3 5	705	image 7890	F .	OVD	#					Auk20			
No. 1 2 3 4		HH	MN 3 5	705	image 7890	F .	OVD	#					Auk20			
No. 1 2 3 4 5		HH	MN 3 5	705	image 7890	F .	OVD	#					Auk20			
No. 1 2 3 4 5		HH	MN 3 5	705	image 7890	F .	NVD	#					Auk20			
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VIDEC	414 START	7 5	SBN	MS 5/3	0.00		-		CONSEC		DVD				
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VIDEO	1H MARA CC		JRF/		DEO E	ND AT	SI		CE Suns	et: N	lay 19, 2014	1	UAD	NA'	V
	III MMI 33			0'	C HILL	AIIAI 22			2006	EDT	= 0006 UTC	× .	2	GP:	S
BOTT		DTC I		im ss えりょり	1	DPH, n	n 2	5,	Lat N 42 deg	10,	3179 317 min	Lon 70 d	W eg (8	2-2931	/ min
SAMP TAKE		UTC		IM \$5 _	9	DPH, n	n		Lat N 42 deg		3184 316 min		W eg 8	2763	min
VIDEO	OFF OM	UTC		M SS 6 11		DPH, n	n		Lat N 42 deg (4421 442 min	Lon 70 de		1093	
ore-tri	oped —;		_		-; jaws	partly	ope	n —; \	vashout	; refu	ısal —; too gr	avelly/	shelly -		
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ORW	/ARD											(sed gr	ab (temp	p logr
	E COUN	TER	ST	ART: HE					END: H	-00)		-
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	t epifaun		μ,	herring	eggs			skate				ED DE	SCRIP		
	oltenia tu achiopod		<u> </u>	lobster moon sr	oil				rites spg		torm ripples vl in ripple tro	uaba		<u>(Ā)</u>	7
	ushy bry/h		+	mussels				squid yellow encr. spg			mall ripple tro	ugns			<u>(n)</u> n
	venile co		╅	осеап р		 			v onor. sp		and partial ve	neer o	n grave		n
	incer crai			Polymas							ravel paveme		3		n
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	yellow s		\ \	sand do							and lance in				<u>(n)</u>
_	demnum	COIS	-	sand la			Н			s	and lance in	subst	rate	(X)_	n
	ogfish ucratea lo	ricata		sand lau scallops		S	\vdash							- 1	_
	lograna ir			sculpin	15)						and Live	1000	-	un b	
	iger spg	прісха	╅	sea star	S					-	St m TWO	6,00	WID &		
	under		$\overline{}$	shells &		nts				tr	awl/dredge m	arks		V.	n
	ddock		+	silver ha			Н				mbient light	W110		у.	
		6.3	ΞŜι	rface (-1 m)	temp de	g C //	.4	; Diffe	erence deg C	5./	; (Onset Tidb	iT v2)			
'hoto c)IGITA	of sample i L STILL P	n grab o	on de S OF	ck = # SEABED:	Canon	Prelim. digital (visu G12	al texti camei	ire from VII a, 12 MPixe	DEO o els; jpe	r SAMPLE = eg images				
10.	Cumul.			TC)	JPG	ים	VD	#		criptic			Filen		
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SBNMS Site 5/3, Sta_

	GS AUK201 IMS Ma	14015 Iy 2014	150	M	AY 3	TC) _ 30 C	NAV FILE NO	o. l	DIV TAT	PE NO. 6
USGS STA 40	SBN SITI	ims 513	SBNMS STA A	EDI		CONSEC. STATION	DVD NO.	6	DVI	D 6 LE NO.
VIDEO STAR	AT SURF	ACE VID	DEO END AT	ΓSU	JRFAC	E Sunset:	May 19, 2014		JAD	NAV
UTC HH MM S		l oic	, HH MINI 33	ł			T = 0006 UTC		-	GPS
VIDEO ON BOTTOM	UTC HH	MM SS	DPH, r	1 2		Lat N 42 deg / C	3653 366 min	Lon \ 70 de	N eg 18	.3423 342min
SAMPLE	UTC HH	MM-SS 2	DPH, r	ກ	A-	40	· 3781 379 min		_	
TAKEN	UTC HH		DPH, r	20		Lat N	.4790	Lon \		-2961
VIDEO OFF BOTTOM	04	55 1	7		ļ	42 deg D.	479 min	70 de	g /8	. 294 min
pre-tripped —;				ope			efusal —; too gi	ravelly/s		
V TAPE COU	NTER S	TART: HH	MM SS			END: HH I	MM SS	ł	SAME	PLE TYPES
FORWARD								(sed gr	ab temp logk
V TAPE COU	NTER S		MM SS			END: HH I		ĺ	invert-	grab ctd 49
DOWN		003		,			+3 41			
att epifaui		herring	eggs		skate			BED DE	SCRIP	
Boltenia ti		lobster	oil	\vdash	Suber	ites spg	storm ripples gvl in ripple tre	ougha		Λ U
brachiopo bushy bry		moon sn mussels	au	╁		encr. spg	small ripples	ougns		<u>y, (11)</u> y, n
juvenile c		ocean po	out	\vdash	yenow	enor. spg	sand partial v	eneer o	n grave	
cancer cra		Polymas		П			gravel pavem			y, n
cod		red encr.		1						•
cunner		red hake								
dk yellow		sand dol		Щ			sand lance in			
Didemnur	n cols		ce adults	\vdash			sand lance in	7		(y,) n
dogfish Eucratea	orionto	sand lan		\vdash		 -	<u> </u>	+ nu	gr	911
Filograna		sculpin		+						
finger spg		sea stars		\vdash	-					
flounder			fragments				trawl/dredge r	narks		y, n
haddock		silver hal	ке	<u></u> _			ambient light			<u>y, n</u>
	C 6-3;							JDH V2)		
Bottom temp deg Photo of sample	in grab on o	F SEABED:	Prelim. Canon digital	G12	iai textu 2 camera	re from VIDE0 a, 12 MPixels;	or SAMPLE = jpeg images			
Photo of sample DIGITAL STILL	PHŌTOS O	F SEABED:	Canon digital	G12	camera	a, 12 MPixels; Descrip	Jpeg images otion			ame
Photo of sample DIGITAL STILL	PHOTOS O Time (HH M	UTC) M SS	JPG image #	G12 DVD	camera	a, 12 MPixels;	Jpeg images otion	Auk2		ame 5_sta_img#
Photo of sample DIGITAL STILL	PHOTOS O Time (HH M	UTC) M SS	JPG image #	G12	camera	a, 12 MPixels; Descrip	Jpeg images otion	Auk2		
Photo of sample DIGITAL STILL No. Cumul. No.	PHOTOS O Time (HH M	UTC) M SS	Canon digital	G12	camera	a, 12 MPixels; Descrip	Jpeg images otion	Auk2		
Photo of sample DIGITAL STILL No. Cumul. No.	PHOTOS O Time (HH M	UTC) M SS	JPG image #	G12	camera	a, 12 MPixels; Descrip	Jpeg images otion	Auk2		
Photo of sample DIGITAL STILL No. Cumul. No. 1	PHOTOS O Time (HH M	UTC) M SS	JPG image #	G12	camera	a, 12 MPixels; Descrip	Jpeg images otion	Auk2		
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SBNMS Site 513, Sta

CRUISE: USGS AUK2014015 SBNMS May 2014				ı	JD (UTC) DATE				(UTC) , 2014				NAV FILE NO.				VIDEO TAPE NO.		
USGS		SBN			SBNMS				CONSEC.			DVD			DVD				
STA VIDEO START		SITE		VIID	ST		F 01	UDEA		TAT	ION		NO.		TITLE NO				
UTC HH MM SS		JKF/	ACE		EO END AT SURFACE				Sunset: May 19, 201 2006 EDT = 0006 UT								NA		
VIDEO ON BOTTOM	UTC	HH N	MM SS		DPH, m				Lat N 42 deg				m	Lon W					mir
SAMPLE	UTC	HH N	M SS			DPH, i			t N		5	Lon W							
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VIDEO OFF BOTTOM							Lat N 42 deg				_	iin	Lon 70 de	eg	min				
pre-tripped —;	no smp					-	орє	en —;						gra	velly/:	shelly -	_		
V TAPE COUN	ITER	ST.	ART:	НН	MM	SS			EN	ID:	НН	MM S	S		<u> </u>	SAM	PLE	TYP	ES
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DOWN	IIEN															invert	grab		ctd
att epifaun			herri		ggs			skat	e						D DE	SCRIE	OIT	V	
Boltenia tu		4	lobst					Sub		s sp	g		n ripple					у,	n
brachiopod		+	moo		ıil		\perp	squi					ripple		ughs				<u>n</u>
bushy bry/		-	muss		-4		┼	yello	w er	nçr.	spg		l ripple					n	
juvenile co			ocea		tia spg								nd partial veneer o vel pavement			n grav	el		n
cancer cra	D	+				<u>g</u>	┢	_				grave	el pave	eme	nt			у,	n
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dk yellow s Didemnum		+	sand			lulto	\vdash	-		-						colun	าก		n
dogfish	COIS	+	sand	-			┢			_		sano	lance	≇ III	subșt	rate		у.	n
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haddock		+	silver			ciita	\vdash						ent lig		aiks				n
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