		UISE: USG NMS	٩	IOV	2015		DATE		c			JD EST		NAV FILE NO		HD UP	PRO FWD VIDEO, FILE: CAM: CAM:
				DEC		-								VIDEO	FILE		and the second second
	US ST/			SBN							1		GHT	UP CAM	:	GP	STILLS FILE:
		EO START		URF	ACE				SU	RFAC	E			30, 2015 113 UTC	QUA	٨D	NAV
														113010			GPS
		O ON BED / SMPL	EST	нн м	im ss		DF	PH, m				t N deg		min	Lon W 70 deg		min
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ł		O OFF	EST	нн м	IM SS		DP	H, m				t N deg		min	Lon W 70 deg		min
		BED / SMPL										ueg		100	70 deg		
	Lo/ HH			o/Hi IH MN		EST	STA L			+/-		hr		rc = est +	5 HRS	CID	CAST NO.
2	NO		re-trio	ped:	no sm	ol atte	moted:	iaws	ba	irtly or	ben	washout	: refus	al: too ora	vellv/sh	ellv: s	mpl too small
				T T		pronto		,								_	
2	TIDE	AT SCITUAT	E MA	1											SA	AMPL	E TYPES
				-			_								sed g	rab	temp logr
															sand	lance	ctd upcast
	_			1					-								
		att epifaun		-	the second second second	ing eg	igs	_	_	skate				the second se	ED DES	CRIP	and the second se
		Boltenia tu		_	lobs	ter n snai		-	-	Sube		s spg	storr	n ripples	sha	200	y, n rounded
		brachiopoc bushy bry/			mus				-			B pilu.		n ripple tro		ai p	y, n
		iuvenile co				an pou	t		-+			ncr. spg		l ripples	agno		y, n
		cancer cra				mastia	and the second second second							partial ve	neer on	grave	
		cod				encr. s	pg							el paveme			y, n
		cunner			-	hake								l lance in			
		dk yellow s		_	sand	d dolla	rs		+					I lance on I lance in			and the second
		Didemnum	COIS	-					-+				SL S		seu sar sml		y, n ned la
1	\vdash	dogfish Eucratea k	nricata		scal	lons							nos		5111		ned Ig
		Filograna i			scul												
		finger spg	-		sea	stars								ed/dredge		rags	y n
		flounder					agment	s						/dredge m	arks		y, n
		haddock			silve	r hake		_					amb	ient light			<u>y, n</u>
	Tem	p (Onset Tidbi	T v2)	Seal	bed deg	С	, Si	urface	(-1	m) deg	с	; Di	fference	e deg C			
	DIG	ITAL VIDEO	STILL	PHOT	ros: c	GO PR	D (3, 3+)@		sec in	iterv	val;	P	lo. of photo	s =		
	No.	Cumul. No.	Ti HI	ime (l H MN	EDT) A SS		JPG hage #		DV	D #			criptio n phot		Auk20		ame 4_sta_img #
No. of State	1																
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	5			0.00					4		C.T.A	NOS DETU		DALLELIA		0.024	
		IT OF FWD UP						CA		DI	STA	NCE BETW	EEN P/	RALLELLA	USGS = 2		FION
F	AGE	ALENTINE, US	GS COA	STAL A	ND MAP	NE GEO	DLOGY P	ROGR/	AM.	WOODS	HO	LE, MA SB	NMS S	site	_, CON	SEC	STA

NOU30= JD334 DEC 1 = JD335

VIDEO CAMS FWD UPRER GOPRO 120 cm distance FWD UPRER GOPRO 88 cm 96 cm 14D FWD LOWER SEAVIEWER 88 cm 96 cm 14D

UTCTIME = EST TIME + 5 HRS

UP cam to realed vert = 129 ; slope = to cam to peaked vert = 188 ; stope = of cm

more se injuned by Sub (caught m jaws) than usual = 50 deeper in red

					N	ATE EST	_	/	JD EST 33	5	NAV FILE N		HD V UP C	PRO FWD /IDEO, FIL AM: 291
									UTC 33	35	FWD VIDEO		LOC	AM:982
USG	S.	¥			C	ONSEC.								TILLS FILE
STA	11160					FATION	•	1	DAY	GHT	3	53		
		AT SU	RFA			END AT	SL	JRFA	CE Sunset	• Nov 3	30, 2015	QUA	D	NAV
EDT	HH MM SS	144	94	BUTC	нн	MM SS					113 UTC	2	.	GPS
		EBT HI	HM	Mas FGLFG	3)	DPH, m	24	ø	Lat N 42 deg //,	668	3 🤇 min	Lon W 70 deg		.5246 531 mi
SAMI					2). 1	DPH, m	1		Lat N 42 deg	4 01	min	Lon W 70 deg	/	m
	~				/Gas						110101		·	
VIDEC		09				DPH, m			Lat N 42 deg //	.697	5 min	Lon W 70 deg	(4.	7620 mi
LO/F HH N				TIDE EST	-	TALo/H	i	+/-	- = , hi		C = EST +	5 HRS	CTD	CAST NO.
NO S	SAMPLE p	no smpl att	_		s pa	artly o			al; too gra	velly/she	elly; sr	npl too sm		
TIDE	AT SCITUATI	EMA	-				- 222					SA	MPLI	E TYPES
										e sed g	rab	temp_logr		
										sand	ance	ctd upcas		
	att epifauna			herring e	aas			skat	9	ľ	SEAB	ED DES	CRIPT	TION
	NMS NOV 2015 DEC GS A 442 EO START AT SURFACE HH MM SS 14 4948 070 EO START AT SURFACE HH MM SS 14 4948 070 EST HH MM SS BED SMPL C 9 5 1 / L HI TIDE EST HI TIDE EST HI TIDE EST HH MM SAMPLE pre-tripped; no smpl EAT SCITUATE MA SAMPLE pre-tripped; no smpl EAT SCITUATE MA att epifauna herrin Boltenia tunic. I obster brachiopod moon bushy bry/hyd musse juvenile cod ocean cancer crab Polym cod red en cunner red ha dk yellow spg sand c Didemnum cols dogfish Eucratea loricata scallop Filograna implexa sculpir finger spg sea sta flounder shells haddock silver f P (Onset TidbiT v2): Seabed deg C TAL VIDEO STILL PHOTOS: GO T OF FWD UPPER GO PRO ABOVE T OF FWD UPPER GO PRO ABOVE T OF FWD LOWER GO PRO ABOVE							_	erites spg	storm	ripples			y, n
	DEC GS SBNMS A HHAI SITE SITE PEO START AT SURFACE N HH MM SS 14 494807 E CON EST HH-MM-SS BED SMPL DG UG UG CON EST HH-MM-SS DG UG UG SOOFF EST HH-MM SS DG G J JE SOOFF EST HH-MM SS DG G J JE BED SMPL DG G J JE HI TIDE EST Lo/HI TIDE E HI TIDE EST Lo/HI TIDE E HI TIDE EST Lo/HI TIDE E HH MM S SAMPLE pre-tripped; no smpl Att epifauna herrin Becorea No Sand docen JUVenile cod ocean cacen red en cacen cod red en red had dogfish Sculpin cod red en sculpin f				ail			squi		cres		sha	rp	rounded
								tunic	ate, B pilu.	gvl in	ripple tro	ughs		y, n
					ut			yello	w encr. spg	small	ripples			() n
					ia sp	g				sand	partial ve	neer on g	grave	<u>y</u> , r
					spg					grave	l paveme	nt		y, r
										sand	lance in	water co	olumr	y, (n
					ars					sand	lance on	/in subs	trate	у, (r
										sand	lance in	sed san	nple	y, (ř
	dogfish	-						SL s	ze:	sml	m	ed Tg		
		scallops						nos:						
	Filograna ir	sculpin										~		
	finger spg	sea stars						trawle	ed/dredge	d shell fr	ags	<u>(y)</u> n		
		shells & f	ragm	ients				trawl/	dredge m	arks		y, r		
	And in case of the local division of the loc	silver hak							ent light			у, п		
Temp	dk yellow spg sand d Didemnum cols dogfish Eucratea loricata scallop Filograna implexa sculpir finger spg sea sta flounder shells haddock silver f p (Onset TidbiT v2): Seabed deg C TAL VIDEO STILL PHOTOS: GO Cumul. Time (EDT)					; Surface	(-1	m) deg	C;Di	fference	deg C			
DIGI1								sec ir	iterval;		o. of photo			
No.					JP(mage		D٧	/D #		cription n photo			Filena 15074	ime _sta_img≴
1	PLE EST RH MM SS PLE EST RH MM SS PLE EST HH MM SS O 9 5 / / (C HI TIDE EST MM SAMPLE pre-tripped; no smpl AT SCITUATE MA att epifauna herring Boltenia tunic. lobster brachiopod moon s bushy bry/hyd musse juvenile cod ocean cancer crab Polyma cod red end cod red end cod red end cod red end cod red end cod sean scallop Filograna implexa scallop Filograna implexa scallop Filograna implexa sculpin finger spg sea sta flounder shells of haddock silver h CONSET TidbiT v2): Seabed deg C TAL VIDEO STILL PHOTOS: GO Cumul. Time (EDT) NO. HH MM SS				, ,									
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	OF FUEL		100	ADOVEDE		=125 CI	A	D	STANCE BETW		DALLELIA	SERS = 20	CM	

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	JISE: USG				DAT NOV	EEST	1	JD EST	33	5	NAV FILE N	0.	HD	PRO FV VIDEO,
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		_			2000			1 2	2		VIDEO			CAM: 98
USC			BNM		ł i	SEC.		64		NUT	UP CAN		GP S	STILLS F
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								16	613 ES		113 UTC	2	-	GP
VIDEO		EST H				PH, m		Lat N			798	Lon W		.484
SEAB	ED / SMPL	/10) O	851	5	21	0	42 de	g	5/9	min	70 deg	114	,499
		EST H	I MN	A SS		PH, m		Lat N				Lon W		
SAM	PLE							42 de	q		min	70 deg		
		EST H	- MN	I SS		PH, m		Lat N				Lon W		
VIDEO						,		42 deg	, <i>11</i> .	7819	min	70 deg		5/16
1				932					9			10 009		
LOTI HH M			MM	TIDE ES	' STA	Lo / Hi	+/-	-		UT	C = EST +	5 HRS	CID	CAST NO.
					HH I	MM			<u>. </u>					
NO	SAMPLE pr	e-trippe	d: ne	o smol a	ttempted	: iaws c	artiv o	pen: wa	shout:	refusa	al: too ora	vellv/she	ellv: sr	nol too s
					liompiee	, j ano p						-		•
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												D	~	~
												sand	lance	ctd up
	att epifauna	1		herring	eggs		skate	3			SEAB	ED DES	CRIP	TION
	Boltenia tun			lobster			Sube	erites sp)g	storm	ripples			у, (
	brachiopod			moon sr	nail		squid			cres		sha	arp	round
	bushy bry/h	yd		mussels				ate, B p			ripple tro	ughs		<u>у</u> ,
	juvenile cod		-	ocean p			yello	w encr.	spg		ripples			<u></u>
	cancer crab	1		Polymas			+				partial ve		grave	
	cod			red encr		 	+				l paveme		- 1	<u> </u>
h +	cunner dk yellow sp	20		red hake sand do		-+-	+				lance in lance on			
	Didemnum		\vdash	Sand do	liai 5						lance in		_	(Y)
	dogfish					-+	+			SL si		(sml)		ied
	Eucratea lo	ricata		scallops						nos:		U		
	Filograna in	nplexa		sculpin										-
	finger spg			sea star				+	<i>Q</i>		d/dredge		rags	(Y
the second se	flounder				fragmen	ts	QVV 1	4/tr	χ		dredge m	arks		У,
	haddock			silver ha	ke					ambie	ent light			<u>у</u> ,
Temp	(Onset TidbiT	v2): S	Seabe	d deg C	; 5	urface (-1	l m) deg	С	; Dif	ference	deg C			
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EIGHT														

	JISE: USGS						1	JD EST 3	35	NAV FILE NO		HD	PRO FI VIDEO, CAM: 2
SBI	MS	NC	v :	2015						FWD M		LO	CAM
USC STA	1/// 6.9	S S	BNI ITE	ms 54	CONSE		3	DAY-N	IGHT	UP CAM		1	STILLS
	EO START A	T SUI	RFA		DEO END		JRFAG	Sunse		30, 2015 113 UTC	QUA	AD	NA
		EST H	LI AI		DPH				.79				G
VIDE	BED I SMPL	(10	2	240		7	26	Lat N 42 deg /		, min	Lon W 70 deg	14.	467 472
SAM		EST H	H_M	MSS	DPH	i, m		Lat N 42 deg		min	Lon W 70 deg		
VIDE	O OFF	EST H		-	DPH	l, m		Lat N	11 0 007		Lon W		110.7
SEAE		10	23					42 deg	1.8003	min	70 deg	-	4803
Lo/I HH I			/ Hi MM	TIDE ES	STA LO		+/-	_	hrs UT	'C = EST +	5 HRS	СТD	CAST NO
NO	SAMPLE pre	-trippe	ed; i	no smpl a	attempted; ja	aws pa	artly o	pen; washoi	ut; refus	al; too gra	-	-	
TIDE	AT SCITUATE	MA						1 I. I. I.			SA	MPL	ETYPE
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	att epifauna			herring	i eggs		skate				D DES	CRIP	TION
_	Boltenia tuni	с.		lobster				erites spg	-	ripples			у,
	brachiopod			moon s			squid		cres		sha	arp	roun
	bushy bry/hy juvenile cod	a	<u> </u>	mussel		_		ate, B pilu. w encr. spg		ripple tro	ugns		<u> </u>
	cancer crab		-	ocean p Polyma	istia spg		yeno	w ены, spy		partial ve	neer on	arave	<u>y,</u> Iy,
+	cod		1	red end	and the second					partial vene	and the second se	giare	<u>y,</u> y,
+ +	cunner			red hak		-				lance in		olum	
	dk yellow sp	g	V	sand do					sand	lance on	/in subs	strate	
	Didemnum c	ols								lance in			у,
	dogfish									ize:	sml	n	ned
_	Eucratea lori	and the second		scallop	the second se				nos				
and the second second	Filograna im	plexa		sculpin					Annual		ط والدوال في	-	
	finger spg flounder			sea sta	rs & fragments	_	ALL A	albet		ed/dredge /dredge m		rags_	<u>(y</u>
-	haddock			silver h	the second se	-	gar r	<i>γμ</i> .		ent light			<u> </u>
	o (Onset TidbiT v			ed deg C			m) deg	<u>C;</u>	Difference	deg C o. of photo	8 =		
				DT)	JPG				scription	· .		Filen	ame
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FIGH	OF FWD UPPI	ER GO	PRO	ABOVE S	EABED =	CM	DI	STANCE BETY	VEEN PA	RALLEL LAS	SERS = 20 USGS	D CM	

	UISE: USG						e (JD EST	335	NAV FILE N	0.		RO F IDEO AM: 7
58	NMS	NÇ	ענ	2015							CM-HD	LOC	AM: 9
US	GS	S	BN	MS	CONS		,		NIGH			GP ST	
ST/	442L	· .		34	STATI				NIGH	356			
	HH MM SS	AT SU	KL4		DEO END		UKFA	Suns		ov 30, 2015 = 2113 UTC			N.
1		EST H	H N	IM SS	DP	H, m		Lat N	.74		Lon W		6 794
	O ON BED SMPL	10	3	SCE		20	0	42 deg			70 deg	14.	
SAM	IPLE	EST H		IM SS	DPI	H, m '		Lat N 42 deg		min	Lon W 70 deg		
VIDE	O OFF	EST H		im ss 5 38		H, m		Lat N 42 deg	11.78	389 min	Lon W 70 deg	14.5	-140
Lo/ HH			7 Hi MN	TIDE E	ST STAL		+/-	•	hrs	UTC = EST +	5 HRS	CTD C	AST N
NO	SAMPLE pr	e-trippe	ed; ı	no smpl		_	artly o	pen; wash		fusal; too gra	velly/sh	elly; sm	ipl too
TIDE		MA		100							SA	MPLE	TYP
									1200		sed g	rab)	temp
5												аясе	ctd u
	att epifauna	l- 1		herrin	g eggs		skate	9			ED DES	CRIPT	ION
	Boltenia tur	nic.		lobster				erites spg		torm ripples			у,
\vdash	brachiopod	_ .		moon			squid			crests:	sha	arp	roun
	bushy bry/h		_	musse				ate, B pilu		vl in ripple tro	ughs		<u> </u>
	juvenile coo		-	ocean			yello	w encr. sp		mall ripples		aroual	<u>y</u> ,
	cancer crab cod	,	+		astia spg		ł			and partial ve ravel paveme		graver	<u> </u>
	cunner		\vdash	red en		_	 			and lance in		olumn	<u>у</u> у,
- Children -	dk yellow sp	202	10	sand d				· · · · · · · · · · · · · · · · · ·		and lance in			<u>y</u> , y
	Didemnum		- K.	Sanuuu	ionars	-	ł			and lance in			<u>y</u>
	dogfish	CUIS	+			_	<u>+</u>			L size:			ed y
	Eucratea lo	ricata	+	scallop	ne .	_	ł — —			10S:	5111	1116	u .
	Filograna in			sculpin			<u> </u>			105.			
h +	finger spg	ipieza	Ľ	_sea sta		_	ł			awled/dredge	d shall f	1000	(y
	flounder				& fragments		440	T. H. a		awi/dredge m		lays	
	haddock			silver h				3417× C-		mbient light	di Ka		<u>y</u>
	o (Onset TidbiT TAL VIDEO S			ed deg C OS: GO			m) deg sec ir	C;	Differe	ence deg C No. of photo	s =		
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CRU	ISE: USG	S ALIK	201	5074		E EST		JD EST 3	35	NAV FILE NO	D .	GO PRO	
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										FWD /		LO CAM:	9
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STA	4425	S	ITE	us 53	•	TION	5	DAY-I	NIGHT	35	7		
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	HH MM SS	AT 50			DT HH MI			Suns		30, 2015			
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VIDEO		EST H				PH, m	2	Lat N //	=1,	<u> </u>	Lon W		
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		EST H	IH M	MSS		PH, m		Lat N	.548	3	Lon W	.453	1
SAMF	PLE							42 deg		min	70 deg		1
	20	EST H	H M	M SS		PH, m		Lat N			Lon W		
VIDEO		10	54	10				42 deg //	.552	S min		16.48	50
LOIH			7 / 7 Hi	TIDE ES	ST L		. /					CTD CAST	
HH M			I MM		SIA	Lo / Hi	+/-			JTC = EST +	5 HRS		
					HH	MM		·	hrs				
NO S	SAMPLE pr	e-tripp	ed; r	no smpl a	attempted	l; jaws	partly o	oen; washo	ut; refu	isal; too gra	velly/she	elly; smpl t	toc
		T									191	MPLE TY	/D
TIDE	AT SCITUATE	MA											
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	att epifauna			herring	eggs		skate			A CONTRACTOR OF	ED DES	CRIPTION	1
	Boltenia tun	ic.		lobster				rites spg		m ripples			у,
-	orachiopod			moon s			squic			ests: in rinnle fre	sha	arp ro	ur
	oushy bry/h			mussel				ate, B pilu.	the state of the s	in ripple tro	ugns		<u>_</u>
	uvenile cod			ocean p	istia spg		yeno	w encr. spg		all ripples d partial ve	neer on	aravel	(y y
	cod			red end			+			vel paveme		graver	_y _y
+	cunner			red hak			1			d lance in		olumn	v
	dk yellow sp	g	V	sand do		6				d lance on			y
	Didemnum						T		san	d lance in	sed san	nple	(y
	dogfish								SL	size:	sml	(med)	
h	Eucratea lo	-		scallop	A second s				no	S:			
	Filograna in	plexa		sculpin			+		_ <u>_</u>				
	inger spg		-	sea sta		4-		<u> </u>		vled/dredge		rags	<u> </u>
the second se	lounder naddock		+	silver h	k fragmer	its	-			vl/dredge m bient light	arks		<u>}</u>
	Taddock		1	silverna	аке		1		am	Sent light		· · · · · ·	y
Tomo	(Onset TidbiT	1001-	Cook	edideg C		Surface (-1 m) deg	с ·	Difference	n dog C			
remp		V2].	Seau	an nað c	, <u> </u>		- inj deg	<u> </u>	Dinerent	le deg C			
DIGIT	AL VIDEO S	TILL P	HOT	os: Go	PRO (3, 3	+) @	sec in	terval;		No. of photo	s =		
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100000	OF FWD UPF					CM				ARALLEL LA			

	JISE: USG				DATE NØV		_/	JD EST 3	35	NAV FILE NO) .	HD \	PRO FWE /IDEO, FI AM: 291
SBN	AIN 2	NU		2015						FWD			AM: 982
USG	20		DNI	MS	CONS	FC		100		VIDEO	r		TILLS FIL
STA					STAT		6	DAY N	IGHT	UP CAM		GF 3	TILLO FIL
							0			358			
	EO START	AT SU	RFA		IDEO END		URFA	CE Sunse	t: Nov 3	0. 2015	QUA	D	NAV
EUI	HH MM SS			E	DT HH MM	55				113 UTC	2	-	000
1	~	ESTH	R M	M SS	DP	H, m		Lat N		1	Lon W		GPS
VIDEC				40		2	3	42 deg //.	57-7	min		16	552 m
OEAD	ED SHIFT.	(· ·			/						
SAM	PIE	EST-HĮ	HIM	M SS	DP	H, m			.575	-	Lon W	.5	386
								42 deg		min	70 deg		m
VIDEC	OOFF	EST HI		o 11	DP	H, m		Lat N	.5795	-	Lon W		
	ED I SMPL	11	08	3 14				42 deg //	.5 775	' min	70 deg /	16.50	553 m
LOTH	HI TIDE ES			TIDE E	ST STAL	o / Hi	+/-		T			CTD C	AST NO.
HH N	MM	нн	MM		HH M			_	ITS UT	C = EST +	5 HRS		
						141			118				
NO \$	SAMPLE pr	e-trippe	ed; r	no smpl	attempted;	jaws p	partly o	pen; washou	it; refusa	al; too grav	velly/shel	lly; sn	npl too sm
TIDE	AT SCITUATE										SA		TYPES
TUE	AT SCHUATE	- MA					1						
-											sed gr	ab)	temp log
											sand		ctd upca
					<u>.</u> .								<u> </u>
	att epifauna				g eggs		skate				DESC	RIPT	
	Boltenia tur			lobster				erites spg		ripples			<u>y,</u> n
	brachiopod			moons		_	squid		cres		shar	p	rounded
	bushy bry/h juvenile coc			musse				ate, B pilu.		ripple trou	ugns		<u> </u>
	cancer crab			ocean	astia spg		yeno	w encr. spg		ripples partial ver		rouol	<u>v</u>
	cod	,		red end			+			partial ver pavemer		lavel	<u>y,</u> y,
	cunner			red hal			1			lance in v		lumn	
the second se	dk yellow sp	Da		sand d			+		+	lance on			<u>y.</u> <u>y</u> , (
	Didemnum						t			lance in s			y, (
	dogfish						T		SL si	ze:	sml	m	ed t
the second se	Eucratea lo	and the second se		scallop			I		nos:				
	Filograna in	nplexa		sculpin									
	finger spg			sea sta						d/dredge		ags	y r
	flounder				& fragments	\$	ļ			dredge ma	arks		<u>y</u> , I
	haddock			silver h	lake				ambie	ent light			<u>y, r</u>
	Onset TidbiT			ed deg C OS: GO			1 m) deg sec in	<u>C;</u>	Difference (deg C o. of photos	s =		
	Cumul.	Time	- /E		JPG	r		Der	orintian			Filena	
No.	No.	Time HH i			image #	ע	VD #		scription in photo				ine _sta_img ;
_		••••		00	inage #			•	in photo		MUNEOT	<u> </u>	្នុងដេ្ឋាយទូ
1													
2									A.1026030 778				
3										-			
U					t	+							
4								5.0					
4													
4 5	OF FWD UPF			10015		СМ		STANCE BETV				<u></u>	

					E EST Vec	-1	JD EST 33	5	NAV FILE NO		HD V	PRO FW IDEO, F AM: 29
280	Civil S	NOV	2015						FWD		LOC	AM: 98
1100	29	epi		CON	SEC		-		VIDEO			rills Fi
STA	4427		E 53	STAT		7	DAY - NI	GHT	UP CAM 35	7		
		T SURF				JRFAC	Sunset		0, 2015		<u> </u>	NAV
· ·		ST HH	MM SS		PH, m	T	Lat N			Lon W		GPS
	ED SMPL		152		2	3	42 deg //	355	min	70 deg	16.	480
SAMI	PLE				PH, m		Lat N 42 deg	552	s min	Lon W 70 deg		6 5 <u>78</u> r
	OOFF	<u>st нн</u> 120	mm ss > 24	D	PH, m		Lat N 42 deg //	.557	3 min	Lon W 70 deg	16.4	<i>902</i> r
Loth HH M		Lo/H HH M		ST STA	Lo / Hi /M	+/-	h	UT	C = EST +	5 HRS	CTD C	AST NO.
NO	SAMPLE pre-	-tripped;	; no smpl a	attempted	; jaws p	artly op	en; washou	t; refusa	al; too gra	velly/she	elly; sm	pl too si
TIDE	AT SCITUATE N	AA								SA	MPLE	TYPES
	IDEO START AT DT HH MM SS IDEO ON SMPL EABED SMPL AMPLE ES AT SCITUATE MA Boltenia tunic. brachiopod bushy bry/hyd juvenile cod cancer crab cod cunner dk yellow spg Didemnum col dogfish Eucratea lorica Filograna impli finger spg flounder haddock MO No. I I A I									sed g	rab	temp log
										sand		ctd upo
TT	att epifauna		herring	eggs		skate		T	SEAB	ED DES	CRIPT	
			lobster			the second second second second	ites spg	storm	ripples		_	У,
	brachiopod		moon s	nail		squid		cres		sha	rp	rounde
		d	mussel	s		tunica	ite, B pilu.		ripple tro	ughs		У.
	and the second se		ocean p			yellow	/ encr. spg		ripples			$-\infty$
				istia spg					partial ve		gravel	<u>y,</u> y,
			red enc						l paveme			<u>у</u> ,
-			sand do	and the second se					lance in lance on			<u> </u>
-				Judi S				-	lance on			y, (
		<i>H</i> O	+					SL si		sed san	me	
		ata	scallops	S				nos:	- 2.	<u>viii</u>	110	
			sculpin			t		1				
			sea sta	rs				trawle	d/dredge	d shell fr	ags	У
-	The second se			fragmen	ts				dredge m	arks		ŷ,
	haddock		silver ha	ake				ambie	ent light			у,
			abed deg C TOS: GO I		urface (-1 -) @	m) deg (sec int		ifference No	deg C o. of photo	s =		
No.		Time (HH M		JPG image #	D\	/D #		cription n photo			Filenai 15074_	me sta_img
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2					-							
3									-			
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5												
							1			Sector Contractor		

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	JISE: USGS				E EST Vec	1	JD EST 33	5	NAV FILE NO).	HD '	PRO FW VIDEO, I CAM: 2.4
SBN	AIAI 2	NU	V 2015				T		FWD N			AM: 9
USC STA	y 4 28	S		SII CON		в	DAY-NI	GHT	UP CAM	:	GP S	STILLS F
	EO START		RFACE			JRFAC	Sunset		0, 2015	QUA		NA
-	-						1613 E	$ST = 2^{\circ}$	113 UTC	2		GP
VIDEO	DON		H MM SS		РН, m 2	7	Lat N 42 deg / O			Lon W 70 deg	14.	349
SAM	PLE		H-MM-68		PH, m		42 deg	6820	min	Lon W 70 deg		3390
	ED SMPL		h mm ss 1430	D	PH, m		Lat N 42 deg	6832	min	Lon W 70 deg		549
Lo/H HH M			/Hi TID MM	E EST STA	Lo/Hi //M	+/-	h		C = EST +	5 HRS	CTD	CAST NO.
NO	SAMPLE pro	e-trippe	ed; no srr	npl attempted	; jaws p	artly op	en; washou	t; refusa	al; too gra	velly/she	elly; si	mpl too s
TIDE	AT SCITUATE	MA								SA	MPL	E TYPES
						-+				sed g		temp k
	- 16 18							·	0540	sand	·	Ctd up
	att epifauna Boltenia tun		lobs	ring eggs		skate	rites spg	storm	ripples	ED DES	URIP	
	brachiopod	<u>IU.</u>		on snail		squid	the second s	cres	the state of the s	sha	rn	y, round
	bushy bry/h	vd		sels			ate, B pilu.		ripple tro		<u>пр</u>	v
	juvenile cod		1-1	an pout			v encr. spg		ripples	ugiis		- Å
	cancer crab		and the second	mastia spg		10.00	enon opg		partial ver	neer on	arave	the second se
	cod			encr. spg					l paveme			<u>y,</u>
	cunner			hake		r			lance in		olumr	n y,
	dk yellow sp	g	√ san	d dollars				sand	lance on	/in subs	trate	
	Didemnum (cols							lance in			у,
	dogfish							SL si	ze:	sml	m	ned
	Eucratea lor			lops				nos:				
_	Filograna im	iplexa	✓ scu	and the second								
	finger spg			stars					ed/dredge		ags	у
-	flounder			lls & fragmen	ts				dredge m	arks		<u> </u>
	haddock		Silve	er hake				ambie	ent light	<u> </u>		y,
	Onset TidbiT		Seabed deg	3 C ; S GO PRO (3, 3+	urface (-1	m) deg (sec int		ifference	deg C o. of photo:			
			e (EDT)	JPG	T			cription			Filena	me
No. 1	No.		MM SS	image #		/D #		n photo				_sta_im
2					+							
3												
4												
5							TANCE BETW	or 23 m				
	OF FWD UPP				CM							

	JISE: USGS				DATE I NOV	EST De	c1	JI	о ⁵⁷ 37	5	NAV FILE NO) .	HD \	PRO F /IDEO AM: 24
SBN	IMS	NC)V :	2015							FWD M			AM: 9
USC	SS LHCQC		BNI	vis 512	CONSE			10		GHT		:		TILLS
VID	EO START A					AT SL	JRFA	CE	 Sunset	: Nov 3	<u> </u>	QUA	D	N
EDI					A THEF MEDIUS &				1613 ES	ST = 2	113 UTC	12	-	G
VIDE		ST H		M SS 3 ()	DPH	, m 2L	f	Lat 42 c	N leg)()	. 634	¢ min	Lon W 70 deg		
SAM		ST H	H-M	MISS	DPH	l, m	8	Lat 42 c		632	/ min	Lon W 70 deg		671
VIDE	DOFF)	ST H		m ss 72	DPH	, m		Lat 42 c		.637	/ min	Lon W 70 deg		-860
Lo/I HH I			/ Hi MM	TIDE ES	T STALO		+/-	=	h		C = EST +	5 HRS	CTD	CASTIN
NO	SAMPLE pre-	trippe	ed; r	no smpl a	ittempted; ja	aws pa	artly o	pen;	washout	; refusa	al; too gra		-	-
TIDE	AT SCITUATE N	/A										SA	MPLI	ΞΤΥΡΙ
-		-					- 1	1.00				sed g	1	temp
-							3					sand) (ctd u
	att epifauna			herring	eggs		skate					ED DES	CRIPT	
	Boltenia tunic			lobster	noil	_		erites	spg	storm cres	ripples	obo		<u>y,</u> roun
-	brachiopod bushy bry/hyd			moon si mussels			squie		3 pilu.		ripple tro	sha	iip	TOUN
	juvenile cod			ocean p					cr. spg		ripples	ugiis		<u> </u>
	cancer crab			Polyma		+	yeno		01. opg_	And in case of the local division of the loc	partial ver	neer on	arave	
	cod			red enci							paveme			ý
	cunner			red hak						sand	lance in	water co	olumr	
	dk yellow spg		V	sand do	ollars						lance on			У
	Didemnum co	ols									lance in			<u>()</u>
	dogfish					_				SL si	ze:	(sml)	. An	ed
	Eucratea lorio		\vdash	scallops	<u> </u>	_				nos:	45	3	24	71
-	Filograna imp	lexa	-	sculpin sea star						troude	ed/dredge	d shall fi		v
	finger spg flounder		+		fragments						dredge m		ays	y
	haddock			silver ha							ent light			y y
Temp	o (Onset TidbiT v	2): :	Seab	ed deg C	;_Surl	ace (-1	m) deg	1 C	; Di	fference	deg C			
DIGI	TAL VIDEO ST					0	sec ir	nterva			D. of photo			
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3										7 mm - 47 - 1				
4									2002					
5														
		R GO		ABOVESI	EARED =	CM	D	ICTAN	CE DETM		RALLEL	ERS = 20 USGS	CM	

	JISE: USG				DATE NOV	est)ec	_1	J	D ST ろろ	5	NAV FILE NO) .	GO P HD VI UP CA	IDEO,
SBN	NIVIS	N	υv	2015							FWD M		LOCA	
USG	20	Te	BN	MS	CONSE						VIDEO		GP ST	•
STA	443	2 S	SITE	512	STATIC	ON	10		AY	GHT	UP CAM 3 C	52		
	EO START HH MM SS	AT SU	RFA		DEO END		JRFA	CE			0, 2015 113 UTC	QUA 2	1	N/
	~				<u> </u>	_				51 - 2	113 010			G
VIDEO		EST F		m ss 336	DPH	l, m 2	5	Lat 42 (N deg (O	.55	2-min	Lon W 70 deg		346
SAM	PLE	EST	1H-M	M 88	DPF	ł, m		Lat 42 (N , deg	551	7 min	Lon W 70 deg		294
VIDEO		EST H			DPH	l, m		Lat	N /o	CEL		Lon W	10 0-	
SEAB		12	214	410				42 (deg /o	.>>4	/ min	70 deg	16,35	66
LOTH HH M		T Lo	/ Hi H MN	TIDE E	ST STALO		+/-	-			C = EST +	5 HRS	CTD C	AST NO
NO	SAMPLE pi	re-tripp	ed; ı	no smpl a	attempted; ja		artly o	pen;	washout		al; too gra	velly/she	eliy; sm	pl too
TIDE			5			_						SA	MPLE	TYPE
TIDE	AT SCITUATE	= MA											-	
			-				-					sed g	rab	temp
			Ì									sand	ance	çtd u
	att epifauna			herring			skate					ED DES	CRIPTI	ON
	Boltenia tur		-	lobster				erites	spg	-	ripples			y,
	brachiopod			moon s			squid		7	cres		sha	rp	roun
	bushy bry/h		+	musse					B pilu.		ripple tro	ugns		<u> </u>
	juvenile coo cancer crat			ocean	pout astia spg	_	yeilo	wen	cr. spg		ripples partial ver		aravel	y,
	cod	J	+	red end		-					partial ve		giavei	<u> </u>
- +	cunner		+	red hal							lance in		olumn	<u>у.</u>
	dk yellow s	pa		sand d			+				lance on			y,
	Didemnum						-				lance in			_ (ý
	dogfish									SL s	ize:	(sm)	/me	d)
	Eucratea lo			scallop						nos:			-6	de
	Filograna ir	nplexa	+	sculpin						29			210	
	finger spg		+	sea sta							d/drédge		ags	<u>y</u>
	flounder haddock		+	silver h	& fragments	\rightarrow					dredge m ent light	arks		<u> </u>
	Haddock		1	Silvern	ake						ant light			y
	Onset Tidbil			ed deg C			m) deg			fference N	deg C o. of photo			
				DS: GO	PRO (3, 3+)		sec ir			cription	·		Filenar	ne
No.	No.			ss	image #	ע)	/D #	-		n photo		Auk201		
1	-							+						
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	JISE: USGS				st Dec 1	I EST 33		IAV).	HD V	RO FV IDEO, I M: 2
SBN	IMS	NOV	2015		,			WD NE			M: 98
1100		Lon		00105				IDEO F	'ILE ⊦		ILLS F
USC STA	4431		ESIZ			DAY - NI	GHT U	763	3		
	EO START / HH MM SS	AT SURF		DEO END A		Sunset	: Nov 30, ST = 2113		QUA 2		NA
$-\overline{\rho}$	<u> </u>	FOT HU	HUL 00					T			GP
	DON ED SMPL	<u> </u>	23540		24		0.561	min	Lon W 70 deg		· ·
SAM		EST HH	MM SS	DPH,	m	Lat N 42 deg	5597	min	Lon W 70 deg	.4(09
VIDEO	OFP -	EST HH	-	DPH,	m	Lat N	CT 27		Lon W	11 4	212
BEAB	ED I SMPU	12	3616			42 deg /0	.5637	min	70 deg	10.7	263
Lo/H		Lo/H HH N		STALO HH MM	/Hi +/	h		= EST +5		CTD C	AST NO.
NO	SAMPLE pre	e-tripped	; no smpl at	tempted; ja	ws partly o	open; washout	; refusal; f	too grav	velly/she	lly; sm	pl too s
TIDE	AT SCITUATE	MA				T			SA	MPLE	TYPE
						<u> </u>			sed gr	51	temp-l
							1		sand la		ctd up
	att epifauna		herring	eggs	ska				DDESC	RIPT	
	Boltenia tun	ic.	lobster	- 11		erites spg	storm rip	oples			у,
	brachiopod		moon sn	all	squ		crests:	nlo trou	shar	р	round
	bushy bry/h juvenile cod	/a	mussels	N. et		cate, B pilu. ow encr. spg	gvl in rip small rip		igns		y.
_	cancer crab		ocean po Polymas		yen	ow encir. spg	sand pa		eer on o	ravel	<u></u>
	cod		red encr.	the second se	+ +		gravel p			lavei	<u> </u>
	cunner		red hake		+ +		sand la			lumn	<u> </u>
-	dk yellow sp	a	sand doll				sand la				y.
	Didemnum o						sand lar	nce in s	sed sam	ple	(Yr
	dogfish						SL size	;	smi	me	d
	Eucratea lor	-	scallops				nos:	1	\leq		
	Filograna im	plexa	sculpin								
	finger spg		sea stars		_		trawled/			ags	у
	flounder			fragments	+ +		trawl/dre		arks		<u> </u>
	haddock		silver hal	<u>ke</u>			ambient	lignt			у,
	onset TidbiT		abed deg C		ice (-1 m) de		fference deg	_			
DIGI	TAL VIDEO S			RO (3, 3+) @		interval;	No. c	of photos		Filenar	no
No.	No.		(EDT) M SS	image #	DVD #		n photo		Auk201		
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5		B 00 5						1	500 - 01	<u></u>	
IEIGH1	f of FWD UPP	'ER GO PF	RO ABOVE SE	ABED =	CM E	DISTANCE BETW	EEN PARAL	LEL LAS	ERS = 20 USGS S	CM	

				DATE			JD EST 33	5	NAV FILE NO			RO FW
	JISE: USGS /				Vle	21		2		· .		AM: 29
SBN	NN S	NOV	2015				_					AM:98:
USC	35	SB	MS	CONS	FC		15				GP ST	
STA		SIT		STATI		2	DAY - NI	GHT	366			
	EO START AT	T SURF		DEO END	AT SUI		Sunset	Nov 3	0, 2015	QUA	D	NAV
EDT	HH MM SS		ED	т нн мм	SS				113 UTC	12		GPS
1	TE	ST HH	MM SS	DP	H, m		at N			Lon W		GPS
	DON SMPL	12	4318	7)	25	> 4	2 deg/D,		min	70 deg	16.0	
SAM		ST~HH_	MINL 35		H, m		at N 2 deg	616	4 min	Lon W 70 deg		73
		ят нн 12,4	and the second se	DPI	H, m	L 4	at N 2 deg / Ø	.628	6 _{min}	Lon W 70 deg	16.6	657 r
LOTI	HI TIDE EST	Lo/H	TIDE ES	T STAL	. / Hi	+/-		T		T	CTD C	AST NO.
HH N	MM	HH M	M	HH M		=	h		C = EST +	5 HRS		
NO	SAMPLE pre-	tripped;	no smpl at	ttempted; j	jaws pai	rtly opei	n; washout	; refusa	al; too gra	velly/she	elly; sm	ipl too si
TIDE	AT SCITUATE M	A								SA	MPLE	TYPES
										sed g	rab	temp lo
										sand	ance	ctd upc
	att epifauna		herring	eggs		skate				DESC	CRIPT	ION
	Boltenia tunic.		lobster			Suberit	es spg		ripples			<u> </u>
	brachiopod		moon sr			squid		cres		sha	rp	rounde
	bushy bry/hyd		mussels			the second s	, B pilu.		ripple tro	ughs		<u> </u>
	juvenile cod		ocean p	-	-++	yellow e	encr. spg		ripples partial ve	noor on a	araval	<u>y, C</u>
	cancer crab		Polymas red encr						partial ve		ylavei	<u> </u>
	cunner		red hake						lance in		Jumn	<u> </u>
	dk yellow spg		sand dol						lance on			(V)
	Didemnum co	IS						sand	lance in	sed san	ple	- (y)
	dogfish							SL si	ze:	(sml)	(me	ed)
	Eucratea loric	A REAL PROPERTY AND A REAL	scallops					nos:	40			
	Filograna impl	exa	sculpin		\rightarrow							0
	finger spg		sea star			fute	the in		d/dredge		ags	(y
	flounder haddock			fragments		avag	1		dredge m ent light	arks		<u>y</u> ,
	nauuock		silver ha	Ke					nungnu			у,
) (Onset TidbiT v2	1	abed deg C		face (-1 n			fference				
DIGI	TAL VIDEO STI				@ :	sec inter			o. of photo			<u>-</u>
No.	Cumul. No.	Time (HH M		JPG image #	DV	D#		cription n photo			Filena 5074_	me sta_img
1												
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3												
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_	1											
5	17				and the second sec							

HH MM NO SAMPLE TIDE AT SCITU att epifar Boltenia brachiop bushy br juvenile cancer of cod cunner dk yellov Didemni dogfish Eucratea Filogran finger sp flounder haddock Temp (Onset Tr DIGITAL VIDE No. 1	1433	NOV 2	074 015	NOV	e est Dec)	JD EST 33	5	NAV FILE NO		HD V UP C	PRO FWI VIDEO, F AM: 29
STA UU VIDEO STAR EDT HH MM VIDEO ON SEABED SMP SAMPLE VIDEO OFF SEABED SMP Lo / HI TIDE HH MM NO SAMPLE TIDE AT SCITU IDE AT SCITU IDE AT SCITU IDE AT SCITU IDE AT SCITU DIGITAL VIDE No. Cumul No. 1			.015						FWD N		LO C	AM: 98
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	flounder		& fragments			trawl/dredge r	marks	<u>y</u> , ı
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	o (Onset TidbiT v2): TAL VIDEO STILL	Seabed deg C		ace (-1 m) d ററ്റം sec	eg C ; Di interval;	fference deg C No. of phot	08 =	
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CRL SBN	JISE: USGS	AUK201 NOV		DATE NOV	EST	= 1	JD EST 33	35	NAV FILE NC		HD \	PRO FW /IDEO, F AM: مح
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	bushy bry/hyd		mussel		\rightarrow		ate, B pilu.		ripple trou	ughs		<u> </u>
	juvenile cod		ocean p		\rightarrow	yellov	v encr. spg		ripples		roval	<u> </u>
	cancer crab		the second s	stia spg	\rightarrow				partial ver I pavemer		jiavei	
	cunner		red enc		\rightarrow				lance in v		lumn	<u> </u>
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	Didemnum co		Sand ut		-	a-t	19 -7		lance in s			<u> </u>
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	finger spg		∠sea sta			t	1. 0	trawle	d/dredge	d shell fra	ags	(y)
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1	brachiopod			moon sr	nail		squid	1		cres	ts:	sha	rp	round
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	juvenile co	d		ocean p	out		yellow	w er	ncr. spg		ripples			<u> (Y.)</u>
	cancer cral	b		Polymas	stia spg					sand	partial ve	neer on	gravel	<u> </u>
	cod			red encr	spg						l paveme			у,
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	dogfish									SL si	ze:	sml	(m	ed)
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	Filograna ir	mplexa		sculpin			1					11		
	finger spg			sea star	S		T		-	trawle	ed/dredge	d shell fi	rags	У.,
	flounder			shells &	fragments	s		-		trawl/	dredge m	arks		у,
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	Boltenia tunic.		lobster			The second se	ites spg		ripples			У,
	brachiopod		moon s			squid		cres		sha	arp	round
	bushy bry/hyd		mussels		_		te, B pilu.	Aug. 10. 10. 10. 10.	ripple tro	ugns		У
	juvenile cod	 	ocean p			yellow	encr. spg		ripples partial ve		arave	<u> </u>
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	Boltenia tunic.		lobster				rites spg		ripples			<u>y, (</u>
	brachiopod		moon sna	ail	_	squid		cres		sha	rp	rounde
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	cancer crab		Polymast		_				partial ver		gravel	у,
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VIDEC	ED I SMPL	(141)	920)	25		deg 🖉 .			Lon W 70 deg	16	615
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VIDEC	OFF	EST HH	-	DPI	ł, m	Lat		1.01		Lon W	16.6	175
SEAB	ED I SMPL	1410	152			42	deg /Ø	.636.	3 min	70 deg		
Lo/F HH N		Lo/Hi HH Mi		T STALC			hr		'C = EST +	5 HRS	CTD	CAST NO.
NO S	SAMPLE pre	e-tripped;	no smpl a	ittempted; j	aws partly	open;	washout	; refusa	al; too gra			
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T - T	att epifauna		herring	0008	ska	ato		<u> </u>	SEAR	ED DES		
	Boltenia tuni	ic	lobster	ะบูบูร		berites		storm	ripples			y, I
_	brachiopod		moon si	nail	squ	the second se	, opg	cres		sha	arp	round
	bushy bry/hy	/d	mussels				B pilu.		ripple tro			<u>У</u> ,
	iuvenile cod		ocean p				ICF. SPg		ripples			У. (
	cancer crab			stia spg				sand	partial ve	neer on	grave	у, `
	cod		red enc						l paveme			у,
	cunner		red hak					and the second se	lance in			<u>y</u> , (
	dk yellow sp		sand do	llars					lance on			<u> </u>
	Didemnum o dogfish	cols	+			·			lance in ize:			ed 🔰
	Eucratea lor	icata	scallops	•						0 T		
	Filograna im		sculpin	<u> </u>				1103.	-211	4	-5	
-	finger spg	piena	sea star	s	-+	,		trawle	ed/dredge	d shell f	rags	N
	flounder			fragments	del	9/f	Ú.		dredge m			Y.
	haddock		silver ha			11	÷	ambi	ent light			<u>у</u> ,
Temp	(Onset TidbiT	v2): Sea	bed deg C	; Sur	face (-1 m) d	eg C	; Di	fference	deg C			
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