RTT - 1000

ICE GOUGE DATA RECORD

1977

SEGMENT SCALE 1:1524

TRACKLINE	40
DATE	216
VESSEL	KARLUK
TEMPLATE SIZE	4.5 KTS

SEGMENT KM	START TIME HOURS MINUTES TENTHS	START DEPTH M	DISTANCE FROM COAST KM	SHIP'S COURSE °T	OBSERVED ORIENTATION ° DOM/SUB	ADJUSTED ORIENTATION °T DOM	ADJUSTED ORIENTATION °T SUB	ORIENTATION VARIABILITY HIGH MED LOW	NUMBER OF INCISIONS OBS	CORRECTION FACTOR ⊥	GOUGE DENSITY PER KM	INCISION DEPTH DISTRIBUTION METERS NMP	.2-.4	.4-.6	.6-.8	.8-1.0	>1	MAX	MAXIMUM INCISION WIDTH M	MAXIMUM RIDGE HEIGHT M	MAXIMUM GOUGE LENGTH M	MULTI-INCISION GOUGES NUMBER	MAXIMUM INCISIONS PER GOUGE	MAXIMUM DISRUPTION WIDTH (M)	DOMINANT ORIENTATION °T	DEPTH TO FIRST REFLECTOR M	SONAR RANGE M	REMARKS
AB 1	1908.0	13.7	11.7	230	30/100	260	330	M	148	1.38	204 .2	107	28	9	4	0	0	.6	6	1.0		3	4	10	250	–	125	
BC 2	1915.2	12.8	11.0		45/30	275	260	M	189	1.13	213 .6	123	33	21	12	0	0	.8	20	.9		5	4	20	245	–		
CD 3	1922.4	12.0	10.5		45/20	275	250	L	174	1.13	196 .6	105	48	18	3	0	0	.6	10	.8		7	6	15	035	–		
DE 4	1929.6	11.5	9.9		45/175	275	045	L	127	1.13	143 .5	67	54	5	1	0	0	.6	4	.5		4	9	30	045	17.2		
EF 5	1936.8	11.1	9.4		40/10	270	240	L	128	1.20	153 .6	93	32	3	0	0	0	.4	3	.5		3	13	30	240	17.0		
FG 6	1944.0	10.6	9.0		40/60	270	290	L	121	1.20	145 .2	89	28	4	0	0	0	.5	3	.5		5	3	10	270	–		
GH 7	1951.2	10.1	8.5		45/15	275	245	L	147	1.13	166 .1	117	30	0	0	0	0	.3	3	.2		3	2	8	250	–		
HI 8	1958.4	9.4	8.1		40/25	270	255	L	119	1.20	142 .8	98	21	0	0	0	0	.2	3	.3		4	4	15	245	–		TICK MARKS (I) ORIEN: 290°T L=100 W=3 M
IJ 9	2005.6	8.8	7.9		35/20	265	250	L	97	1.28	124 .2	86	11	0	0	0	0	.2	2	<.2		4	5	10	245	12.7		
JK 10	2012.8	7.7	7.6		40/25	270	255	L	145	1.20	174 .0	133	12	0	0	0	0	.2	2	<.2		3	2	5	250	11.6		
KL 11	2020.0	6.4	6.6		40/–	270	–	L	60	1.20	72 .0	50	10	0	0	0	0	.2	2	<.2		1	2	5	270	14.0		SONAR QUALITY POOR - NUMBERS MAY NOT BE REPRESENTATIVE OF THIS SEGMENT
LM 12	2027.2	5.5	5.6		10/–	240	–	L	21	2.38	50 .0	19	2	0	0	0	0	.2	1	<.2		1	7	20	240	9.5		
MN 13	2034.4	4.7	4.7		155/–	025	–	L	2	1.54	3.1	2	0	0	0	0	0	<.2	1	<.2		0	–	–	–	10.0		
NO 14	2041.6	3.7	3.7		20/–	250	–	L	14	1.73	24 .2	12	2	0	0	0	0	.2	1	<.2		0	–	–	–	8.7		
OP 15	2048.8	2.9	2.9		15/–	245	–	L	11	2.00	22 .0	11	0	0	0	0	0	<.2	1	<.2		0	–	–	–	8.2		
P END	2056.0	2.3	2.2																							–		

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ICE GOUGE DATA RECORD 1977

TRACKLINE: 41 | DATE: 217 | SEGMENT

VESSEL: KARLUK | TEMPLATE SIZE: 4.5 KTS.

SEG. SCALE 1:1524

KM	START TIME (HOURS MINUTES TENTHS)	START DEPTH (M)	DISTANCE FROM COAST (KM)	SHIP'S COURSE (°T)	OBSERVED ORIENTATION (°T) DOM	OBSERVED ORIENTATION (°T) SUB	ADJUSTED ORIENTATION (°T) DOM	ADJUSTED ORIENTATION (°T) SUB	ORIENTATION VARIABILITY (HIGH MED LOW)	NUMBER OF INCISIONS (OBS)	CORRECTION FACTOR (⊥)	GOUGE DENSITY (PER KM)	INCISION DEPTH DISTRIBUTION METERS NMP	.2-.4	.4-.6	.6-.8	.8-1.0	>1	MAX	MAXIMUM INCISION WIDTH (M)	MAXIMUM RIDGE HEIGHT (M)	MAXIMUM GOUGE LENGTH (M)	MULTI-INCISION GOUGES NUMBER	MAXIMUM INCISIONS PER GOUGE	MAXIMUM DISRUPTION WIDTH (M)	DOMINANT ORIENTATION (°T)	DEPTH TO FIRST REFLECTOR (M)	SAMPLE RANGES (M)	REMARKS
AB 1	0828.0	3.2	0.3	320	10	—	330	—	L	2	2.38	4.8	2	0	0	0	0	0	<.4	1	<.4	60	0	—	—	—	—	(1:1524) 125	WAVE ACTION OF .4M LIMITS RESOLUTION OF GOUGES TO >.4
BC 2	0835.2	4.2	1.3		—	—	—	—	—	0	—	0	0	0	0	0	0	0	0	0	0	0	0	—	—	—	—		
CD 3	0842.4	5.1	2.3		—	—	—	—	—	0	—	0	0	0	0	0	0	0	0	0	0	0	0	—	—	—	—		
DE 4	0849.6	5.9	3.3		135	—	95	—	L	10	1.13	11.3	10	0	0	0	0	0	<.4	2	<.4	65	0	—	—	—	—		
EF 5	0856.8	6.4	4.4		140	—	100	—	L	23	1.20	27.6	23	0	0	0	0	0	<.4	2	<.4	95	0	—	—	—	—		
FG 6	0904.0	6.9	5.4		130	—	90	—	L	8	1.08	8.6	8	0	0	0	0	0	<.4	2	<.4	75	0	—	—	—	—		
GH 7	0911.2	7.1	6.4		130	—	90	—	L	11	1.08	11.9	2	7	2	0	0	0	.5	8	<.2	110	1	3	10	115	—		
HI 8	0918.4	7.9	7.4		130	—	90	—	L	45	1.08	48.6	27	16	1	1	0	0	.7	2	<.2	250	0	—	—	—	—		
IJ 9	0925.6	8.6	8.6		125	—	85	—	L	127	1.04	132.1	77	43	7	0	0	0	.4	6	.4	400	3	4	6	120	—		
JK 10	0932.8	9.3	9.6		115	145	75	105	L	125	.99	123.6	77	39	9	0	0	0	.6	3	.5	310	5	3	6	100	—		
KL 11	0940.0	10.0	10.6		125	110	85	70	L	156	1.04	162.2	86	42	19	9	0	0	.8	8	.6	365	6	4	18	120	—		
LM 12	0942.2	10.5	11.6		30	120	350	80	M	174	1.38	240.1	96	46	19	11	1	1	1.1	6	.5	360	6	6	17	350	—		
MN 13	0954.4	10.9	12.7		130	40	90	360	H	172	1.08	185.8	115	44	10	3	0	0	.7	8	.5	425	3	5	22	90	—		
NO 14	1001.6	11.6	13.8		130	45	90	05	H	223	1.08	240.8	163	40	16	4	0	0	.6	10	.9	300	4	2	12	90	—		
OP 15	1008.8	12.3	14.9		120	150	80	110	H	245	1.01	247.5	142	49	33	17	4	0	1.0	3	.7	500	4	4	15	100	—		
PQ 16	1016.0	12.8	16.1		130	150	90	110	H	173	1.08	186.8	94	41	25	11	2	0	.8	6	.9	475	7	9	25	100	—		

ICE GOUGE DATA RECORD

1977

TRACKLINE: 41

DATE: 217

VESSEL	KARLUK
TEMPLATE SIZE	4.5 KTS.

SEGMENT KM	START TIME HOURS MINUTES TENTHS	START DEPTH M	DISTANCE FROM COAST KM	SHIP'S COURSE °T	OBSERVED ORIENTATION ø DOM	OBSERVED ORIENTATION ø SUB	ADJUSTED ORIENTATION DOM	ADJUSTED ORIENTATION SUB	°T	ORIENTATION VARIABILITY HIGH MED LOW	NUMBER OF INCISIONS OBS	CORRECTION FACTOR ⊥	GOUGE DENSITY PER KM	INCISION DEPTH DISTRIBUTION METERS NMP	.2-.4	.4-.6	.6-.8	.8-1.0	>1	MAX	MAXIMUM INCISION WIDTH M	MAXIMUM RIDGE HEIGHT M	MAXIMUM GOUGE LENGTH M	MULTI-INCISION GOUGES NUMBER	MAXIMUM INCISIONS PER GOUGE	MAXIMUM DISRUPTION WIDTH (M)	DOMINANT ORIENTATION (°T)	DEPTH TO FIRST REFLECTOR M	SAUNA RANGE M	REMARKS
QR 117	1023.2	13.6	17.1	320	160	50	12.0	10	H	H	112	1.73	193 .8	37	33	25	8	6	3	1.5	5	1.2	1150	4	5	22	12.0	18.7	(1:1524) 125	
RS 118	1030.9	14.4	18.2		135	35	95	355	M	M	169	1.13	192 .1	89	22	34	15	6	3	1.2	15	1.5	700	3	15	110	115	—		
ST 119	1037.6	14.7	19.2		140	45	100	85	H	H	162	1.20	195 .6	74	34	38	7	6	3	1.2	10	.8	900	3	3	12	115	—		
T END	1044.8	15.5	20.2																									—		

LINE	41	DATE	2/7	YEAR	1977	GOUGE DEPTH DISTRIBUTION : > 1 METER

SEGMENT	1.0-1.2	1.2-1.4	1.4-1.6	1.6-1.8	1.8-2.0	2.0-2.2	2.2-2.4	2.4-2.6	2.6-2.8	2.8-3.0	3.0-3.2	3.2-3.4	3.4-3.6	3.6-3.8	3.8-4.0
LM	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
QR	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
RS	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ST	2	1	—	—	—	—	—	—	—	—	—	—	—	—	—

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ICE GOUGE DATA RECORD 1977

TRACKLINE: 42
DATE: 217
SEGMENT

VESSEL: KARLUK
TEMPLATE SIZE: 4.5 KTS.
SEG. SCALE 1:1524

KM	START TIME (HOURS MINUTES TENTHS)	START DEPTH (M)	DISTANCE FROM COAST (KM)	SHIP'S COURSE (°T)	OBSERVED ORIENTATION (DOM/SUB)	ADJUSTED ORIENTATION (°T) DOM	ADJUSTED ORIENTATION (°T) SUB	ORIENTATION VARIABILITY (HIGH MED LOW)	NUMBER OF INCISIONS (OBS)	CORRECTION FACTOR (⊥)	GOUGE DENSITY (PER KM)	INCISION DEPTH DISTRIBUTION METERS NMP	.2-.4	.4-.6	.6-.8	.8-1.0	>1	MAX	MAXIMUM INCISION WIDTH (M)	MAXIMUM RIDGE HEIGHT (M)	MAXIMUM GOUGE LENGTH (M)	MULTI-INCISION GOUGES NUMBER	MAXIMUM INCISIONS PER GOUGE	MAXIMUM DISRUPTION WIDTH (M)	DOMINANT ORIENTATION (°T)	DEPTH TO FIRST REFLECTOR (M)	SONAR RANGE (M)	REMARKS
AB 1	1052.0	15.5	16.3	220	70/35	290	255	M	112	.98	109 .8	62	13	14	12	8	3	1.1	13	1.0	450	4	3	12	10	—	(1:1524) 125	
BC 2	1059.2	15.0	15.5		70/45	290	265	H	117	.98	116 .6	54	29	12	11	5	6	1.7	15	1.3	1000	3	4	33	215	—		
CD 3	1106.4	14.5	14.7		60/120	280	340	H	121	1.01	122 .2	55	27	18	9	8	4	2.2	8	1.5	1025	3	3	15	235	—		
DE 4	1113.6	14.2	14.1		50/30	270	250	M	107	1.08	115 .6	58	35	8	2	3	1	1.5	6	1.4	1000	3	5	27	240	—		
EF 5	1120.8	13.5	13.4		60/15	280	235	L	119	1.01	120 .2	51	30	13	5	0	0	.7	8	.8	1000	4	4	35	220	—		
FG 6	1128.0	13.0	12.7		50/65	270	285	M	97	1.08	104 .8	57	28	5	3	1	2	1.2	10	.8	510	5	4	10	270	21.0		
GH 7	1135.2	12.5	12.0		55/120	275	340	H	114	1.04	118 .6	72	28	7	4	1	2	1.3	18	1.0	500	4	4	50	25	18.8		
HI 8	1142.4	11.8	11.4		55/145	275	05	H	139	1.04	144 .6	92	27	8	6	3	3	1.5	5	1.2	600	2	3	55	30	18.6		
IJ 9	1149.6	11.3	10.9		50/25	270	245	M	131	1.08	141 .5	74	44	12	1	0	0	.7	5	.9	250	3	4	9	270	18.5		GOUGE TERMINATIONS (2)
JK 10	1156.8	10.8	10.3		60/25	280	245	L	109	1.01	110 .1	49	44	14	2	0	0	.7	5	.7	1000	2	2	13	230	17.2		TICK MARKS: ORIEN = 280°T L = 60M W = 3M
KL 11	1204.0	10.5	9.9		45/20	265	240	M	142	1.13	160 .5	80	47	9	5	1	0	.8	8	.6	350	3	3	7	250	18.0		TICK MARKS: ORIEN - 280°T L = 50M W = 2M
LM 12	1211.2	9.7	9.6		55/25	275	245	H	105	1.04	109 .2	46	43	13	1	2	0	.8	8	.5	355	1	2	3	220	18.8		
MN 13	1218.4	9.3	9.0		55/25	275	245	M	108	1.04	112 .3	68	31	7	1	1	0	.8	5	.6	375	4	3	3	240	18.8		
NO 14	1225.6	9.1	8.5		35/60	255	280	L	113	1.28	144 .6	95	13	4	1	0	0	.7	3	.4	700	2	3	5	240	—		*SEGMENT FIGURES ADJUSTED TO 1 KM - INFORMATION GAP BETWEEN FATHOGRAM AND SONAR IN THIS SEG.
OP 15	1232.8	8.7	8.1		40/20	260	240	L	93	1.20	111 .6	76	15	2	0	0	0	.5	3	.2	275	3	3	9	10	—		
PQ 16	1240.0	8.3	7.7		40/10	260	230	L	89	1.20	106 .8	67	18	4	0	0	0	.5	4	.2	300	4	3	12	250	13.4		

ICE GOUGE DATA RECORD

1977

TRACKLINE	DATE	VESSEL	TEMPLATE SIZE
42	2/7	KARLUK	4.5 KTS.

SEGMENT KM	START TIME HOURS MINUTES TENTHS	START DEPTH M	DISTANCE FROM COAST KM	SHIP'S COURSE °T	OBSERVED ORIENTATION DOM/SUB	ADJUSTED ORIENTATION DOM	ADJUSTED ORIENTATION SUB	ORIENTATION VARIABILITY HIGH MED LOW	NUMBER OF INCISIONS OBS	CORRECTION FACTOR ⊥	GOUGE DENSITY PER KM	INCISION DEPTH DISTRIBUTION METERS NMP	.2-.4	.4-.6	.6-.8	.8-1.0	>1	MAX	MAXIMUM INCISION WIDTH M	MAXIMUM RIDGE HEIGHT M	MAXIMUM GOUGE LENGTH M	MULTI-INCISION GOUGES NUMBER	MAXIMUM INCISIONS PER GOUGE	MAXIMUM DISRUPTION WIDTH (M)	DOMINANT ORIENTATION (°T)	DEPTH TO FIRST REFLECTOR M	SONAR RANGE M	REMARKS
QR 17	1247.2	7.6	7.2	220	45/15	265	235	L	74	1.13	83 .6	54	16	4	0	0	0	.5	2	.2	900	2	2	3	250	13.2	(1.1524) 125	
RS 18	1254.4	7.1	7.0		45/20	265	240	L	68	1.13	76 .8	62	6	0	0	0	0	.2	3	.4	350	3	2	8	240	12.7		
ST 19	1301.6	6.7	6.9		45/15	265	235	L	89	1.13	100 .6	74	13	2	0	0	0	.4	3	.5	450	2	3	6	250	12.0		QUALITY OF SONAR BECOMES DECREASINGLY CLEAR FROM THIS SEGMENT UNTIL END LINE.
TU 20	1308.8	6.3	6.9		45/155	265	15	L	55	1.13	62 .2	30	25	0	0	0	0	.3	3	.4	325	0	–	–	–	11.3		RESOLUTION OF SONAR DROPS OFF TO APRX. 50M PER SIDE OF TRACKLINE.
UV 21	1316.0	5.8	7.0		30/60	250	280	L	31	1.38	42 .8	26	5	0	0	0	0	.2	2	.3	50	0	–	–	–	11.7		
VW 22	1323.2	5.3	7.2		25/–	245	–	L	32	1.54	49 .3	28	4	0	0	0	0	.2	3	<.2	550	1	2	2	220	11.4		
WX 23	1330.4	4.8	7.3		25/45	245	265	L	36	1.54	55 .4	27	9	0	0	0	0	.2	5	<.2	75	0	–	–	–	11.4		
XY 24	1337.6	4.4	7.7		40/–	260	–	L	18	1.20	21 .6	11	6	1	0	0	0	.4	3	.3	725	0	–	–	–	9.8		
YZ 25	1344.8	4.0	8.1	180	30/–	250	–	L	8	1.38	11 .0	4	4	0	0	0	0	.3	2	<.2	20	0	–	–	–	9.3		POSSIBLE STRUDEL MARKS
Z END	1352.0	3.4	7.7																							9.4		

LINE	42	DATE	2/7	YEAR	1977	GOUGE DEPTH DISTRIBUTION : > 1 METER

SEGMENT	1.0-1.2	1.2-1.4	1.4-1.6	1.6-1.8	1.8-2.0	2.0-2.2	2.2-2.4	2.4-2.6	2.6-2.8	2.8-3.0	3.0-3.2	3.2-3.4	3.4-3.6	3.6-3.8	3.8-4.0
AB	3														
BC	2	2	1	1											
CD	2	0	1	0	0	0	1								
DE	0	0	1												
FG	2														
GH	1	1													
HI	2	0	1												

RTT-1000

ICE GOUGE DATA RECORD

1977

TRACKLINE: 66

DATE: 251

VESSEL	KARLUK
TEMPLATE SIZE	3.4 KTS.

SEG. SCALE 1:977

SEGMENT KM	START TIME HOURS MINUTES TENTHS	START DEPTH M	DISTANCE FROM COAST KM	SHIP'S COURSE °T	OBSERVED ORIENTATION ° DOM/SUB	ADJUSTED ORIENTATION °T DOM	SUB	ORIENTATION VARIABILITY HIGH MED LOW	NUMBER OF INCISIONS OBS	CORRECTION FACTOR ⊥	GOUGE DENSITY PER KM	INCISION DEPTH DISTRIBUTION METERS NMP	.2-.4	.4-.6	.6-.8	.8-1.0	>1	MAX	MAXIMUM INCISION WIDTH M	MAXIMUM RIDGE HEIGHT M	MAXIMUM GOUGE LENGTH M	MULTI-INCISION GOUGES NUMBER	MAXIMUM INCISIONS PER GOUGE	MAXIMUM DISRUPTION WIDTH (M)	DOMINANT ORIENTATION (°T)	DEPTH TO FIRST REFLECTOR M	SONAR RANGE M	REMARKS
AB 1	1441 .0	17.2	7.7	357	65/90	62	87	L	99	.99	98 .0	14	69	12	4	0	0	.7	8	1.1	280	2	2	12	37	23.5	125	TICK MARKS (5) ORIEN: 77°T L=120M W=5M
BC 2	1449 .3	18.7	8.5		50/115	47	112	M	105	1.08	113 .4	12	68	24	1	0	0	.6	5	.7	225	3	5	17	69	24.4		TICK MARKS (5) ORIEN: 87°T L=45M W=12M
CD 3	1457 .5	19.2	9.3		60/105	57	102	L	102	1.01	103 .3	6	75	21	0	0	0	.5	10	.8	300	2	2	5	52	25.0		
DE 4	1506 .9	20.4	10.2		50/130	47	127	L	90	1.08	97 .2	11	76	3	0	0	0	.5	5	.5	132	0	—	—	—	27.5		TICK MARKS (7) ORIEN: 87°T L=250M W=10M
EF 5	1516 .2	21.6	11.0		90/130	87	127	L	48	1.00	48 .0	13	28	7	0	0	0	.6	5	.4	265	0	—	—	—	28.4		SEG. COVERAGE FOR FATHOGRAM APRX. .5 KM (ORIETATION MAY ACCOUNT FOR LOW NUMBER OF OBSERVED GOUGES)
FG 6	1525 .7	—	12.0		90/125	87	122	L	58	1.00	58 .0	0	53	5	0	0	0	.6	6	.8	305	2	5	35	142	—		PT. F NOT ON FATHOGRAM SEG. COVERAGE FOR FATHOGRAM APRX .75 KM (ORIEN.=LOW NUMBERS ?)
GH 7	1535 .3	22.3	13.0		90/—	87	—	L	62	1.00	62 .0	0	59	3	0	0	0	.5	6	—	250	1	2	3	137	—		TICK MARKS (4) ORIEN: 87°T L=120M W=7M FATHOGRAM QUALITY POOR.
HI 8	1544 .5	22.2	14.0		90/60	87	57	L	86	1.00	86 .0	38	45	3	0	0	0	.5	11	.5	250	2	2	7	22	—		TICK MARKS (1) ORIEN: 77°T L=50M W=3M TICKMARKS (2) ORIEN: 87°T L=75M W=7M FATHOGRAM QUALITY POOR.
IJ 9	1554 .1	23.1	15.0		90/60	87	57	L	94	1.00	94 .0	39	40	15	0	0	0	.7	12	.8	295	3	3	36	59	29.3		FATHOGRAM QUALITY POOR.
JK 10	1603 .0	22.7	16.0		90/135	87	132	L	77	1.00	77 .0	27	38	12	0	0	0	.6	10	.6	335	4	4	14	32	29.4		FATHOGRAM QUALITY POOR
KL 11	1611 .8	23.5	16.8		130/90	127	87	L	95	1.08	102 .6	17	68	10	0	0	0	.7	4	.7	420	2	3	34	97	31.5		
LM 12	1621 .4	23.7	17.9		90/—	87	—	L	69	1.00	69 .0	6	50	13	0	0	0	.7	7	.6	290	0	—	—	—	28.6		
MN 13	1630 .3	24.0	18.8		90/130	87	127	L	101	1.00	101 .0	25	62	14	0	0	0	.5	5	.6	275	2	4	37	127	28.1		TICKMARKS (5) ORIEN: 87°T L=270M W=8M
NO 14	1639 .2	24.1	19.8		100/90	97	87	L	119	.97	115 .4	41	57	21	0	0	0	.6	6	1.0	275	0	—	—	—	29.5		
OP 15	1648 .5	24.1	20.8		90/60	87	57	L	126	1.00	126 .0	45	58	19	2	2	0	1.0	4	1.1	290	2	3	20	62	28.8		.5 KM SEG ON SONAR COUNT-ADJ. TO 1 KM. TICK MARKS (1) ORIEN: 102°T L=162M W=5M
PQ 16	1657 .1	23.3	21.7		60/80	57	77	M	147	1.01	148 .5	82	32	20	11	2	0	.8	15	1.0	265	6	3	28	47	—		

ICE GOUGE DATA RECORD

1977

TRACKLINE: 66

DATE: 251

VESSEL	KARLUK
TEMPLATE SIZE	3.4 KTS.

SEGMENT KM	START TIME HOURS MINUTES TENTHS	START DEPTH M	DISTANCE FROM COAST KM	SHIP'S COURSE °T	OBSERVED ORIENTATION ø DOM/SUB	ADJUSTED ORIENTATION °T DOM	ADJUSTED ORIENTATION °T SUB	ORIENTATION VARIABILITY HIGH MED LOW	NUMBER OF INCISIONS OBS	CORRECTION FACTOR ⊥	GOUGE DENSITY PER KM	INCISION DEPTH DISTRIBUTION METERS NMP	.2-.4	.4-.6	.6-.8	.8-1.0	>1	MAX	MAXIMUM INCISION WIDTH M	MAXIMUM RIDGE HEIGHT M	MAXIMUM GOUGE LENGTH M	MULTI-INCISION GOUGES NUMBER	MAXIMUM INCISIONS PER GOUGE	MAXIMUM DISRUPTION WIDTH (M)	DOMINANT ORIENTATION (°T)	DEPTH TO FIRST REFLECTOR M	SONAR RANGE M	REMARKS
QR 17	1706 .6	21.7	22.7	351	55/90	52	87	H	182	1.04	189 .3	65	58	32	10	10	7	1.8	7	1.6	290	10	4	48	62	—	125	PASSED OVER SHOAL
RS 18	1717 .3	26.5	23.7	↓	90/125	87	122	H	140	1.00	140 .0	15	43	38	13	17	14	1.7	6	1.3	305	7	5	52	17	—		
ST 19	1726 .6	27.5	24.7	150	145/10	295	160	M	125	1.28	160 .0	25	54	32	8	4	2	1.1	8	1.2	250	7	17	150	300	—		
TU 20	1733 .9	27.3	24.7		135/90	285	240	M	147	1.13	166 .1	30	37	38	16	13	13	1.6	7	1.3	350	8	7	45	310	—		
UV 21	1742 .7	27.0	23.7		130/90	280	240	M	142	1.08	153 .4	59	27	29	12	7	8	2.4	8	1.2	250	5	7	43	285	—		
VW 22	1750 .0	24.9	22.8		145/90	295	240	M	127	1.28	162 .6	5	35	40	24	10	13	1.5	8	1.3	250	9	6	48	295	—		SOME GOUGES PASSE AT 90° TO SHIPS HEADING HAVE GOOD RELIEF IN THE TROUGH.
WX 23	1759 .1	26.3	21.9		140/90	290	240	M	131	1.20	157 .2	24	56	35	7	7	2	1.1	13	1.8	250	3	4	31	295	—		
XY 24	1808 .5	23.7	20.9		90/125	240	275	M	139	1.00	139 .0	37	34	23	23	10	4	1.3	5	1.3	260	3	2	7	290	—		
YZ 25	1816 .1	25.5	20.0		90/130	240	280	L	110	1.00	110 .0	30	45	23	12	0	0	.8	12	1.0	302	0	—	—	—	—		
ZAA 26	1824 .5	24.8	19.1		55/130	205	280	H	92	1.04	95 .7	12	38	21	10	7	4	1.2	18	.8	365	2	3	30	290	—		THE IS STILL A DEFINITE 90° ORIENTA TO SHIPS COURSE ALSO.
AABB 27	1833 .4	25.0	18.1		130/160	280	310	L	101	1.08	109 .1	32	55	13	1	0	0	.6	30	.6	320	5	6	35	310	29.8		LARGE AREA GOUGED BY PRESSURE RIDGE (~175 M WIDE)
BBCC 28	1841 .6	24.5	17.1		135/90	285	240	L	88	1.13	99 .4	33	48	6	1	0	0	.6	33	.8	310	3	6	40	285	28.5		
CCDD 29	1850 .7	24.5	16.2		130/90	280	240	L	67	1.08	72 .4	14	49	3	1	0	0	.6	5	.6	305	4	4	25	280	—		
DDEE 30	1858 .9	24.5	15.2		125/90	275	240	L	74	1.04	77 .0	27	44	3	0	0	0	.5	6	.8	320	0	—	—	—	—		SEG .5 KM - ADJUSTED TO 1 KM ON SONAR
EEFF 31	1907 .4	23.5	14.2		125/150	275	300	L	113	1.04	117 .5	55	47	11	0	0	0	.5	12	1.1	330	1	3	38	270	29.1		SEGMENT .75 KM - ADJUSTED TO 1 KM PT. EE NOT ON SONAR RECORD. 7 KH RETURN SHOWS DEPRESSION IN BEDDING.
FFGG 32	1916 .1	23.0	13.3	↓	120/140	270	290	L	100	1.08	108 .0	50	43	6	1	0	0	.7	6	.6	320	1	2	8	310	28.7		PRESSURE RIDGE (GOUGING OVER MOST OF THIS SEGMENT.

ICE GOUGE DATA RECORD

1977

TRACKLINE: 66

DATE: 251

VESSEL	KARLUK
TEMPLATE SIZE	3.4 KTS.

SEGMENT KM	START TIME HOURS MINUTES TENTHS	START DEPTH M	DISTANCE FROM COAST KM	SHIP'S COURSE °T	OBSERVED ORIENTATION ° DOM/SUB	ADJUSTED ORIENTATION °T DOM	ADJUSTED ORIENTATION °T SUB	ORIENTATION VARIABILITY HIGH MED LOW	NUMBER OF INCISIONS OBS	CORRECTION FACTOR ⊥	GOUGE DENSITY PER KM	INCISION DEPTH DISTRIBUTION METERS NMP	.2-.4	.4-.6	.6-.8	.8-1.0	>1	MAX	MAXIMUM INCISION WIDTH M	MAXIMUM RIDGE HEIGHT M	MAXIMUM GOUGE LENGTH M	MULTI-INCISION GOUGES NUMBER	MAXIMUM INCISIONS PER GOUGE	MAXIMUM DISRUPTION WIDTH (M)	DOMINANT ORIENTATION (°T)	DEPTH TO FIRST REFLECTOR M	SONAR RANGE M	REMARKS
GGHH 33	1924 .5	23.1	12.3	138	130/160	268	298	L	96	1.08	103 .7	36	55	5	0	0	0	.5	5	.5	335	1	2	5	298	28.8	125	
HHII 34	1932 .5	23.0	11.6		130/100	268	238	L	62	1.08	67 .0	19	40	3	0	0	0	.5	5	.3	315	0	–	–	–	29.3		
IIJJ 35	1941 .4	23.0	10.7		135/85	223	223	L	72	1.13	81 .4	42	27	3	0	0	0	.5	7	.2	320	3	9	85	278	27.8		
JJKK 36	1950 .0	22.8	10.0		140/90	278	228	L	119	1.20	142 .8	61	54	4	0	0	0	.5	15	.4	340	4	26	130	105	26.5		2 LARGE PRESSURE RIDGES IN SEGMENT ACCOUNT FOR HIGH DENSIT TICK MARKS (1) ORIEN: 248°T L= 58 M W= 12 M
KKLL 37	2000 .0	22.0	9.1		130/50	268	188	L	118	1.08	127 .4	90	27	1	0	0	0	.4	3	.5	350	5	17	62	288	26.7		TICK MARKS (1) ORIEN: 228°T L = 150 M W = 8 M
LLMM 38	2006 .6	21.1	8.6		125/35	263	173	M	117	1.04	121 .7	84	32	1	0	0	0	.4	5	.5	315	3	3	11	163	26.0/31.0		TICK MARKS (2) ORIEN: 248°T L=25M W=5M
MMNN 39	2012 .9	20.1	8.0		130/90	268	228	M	128	1.08	138 .2	65	57	6	0	0	0	.5	15	.5	325	3	3	12	223	25.6/30.4		TICK MARKS (10) ORIEN: 243°T L=175M W=8M
NNOO 40	2020 .9	18.3	7.5	110	105/170	215	280	H	172	.98	168 .6	104	58	10	0	0	0	.5	6	.7	325	3	2	7	110	29.0		
OOPP 41	2028 .4	17.3	7.1		150/40	260	150	H	177	1.38	244 .3	126	47	4	0	0	0	.5	10	.5	280	5	17	58	150	29.0		
PP END	2037 .5	15.1	7.2																							28.9		

LINE	66	DATE	251	YEAR	1977	GOUGE DEPTH DISTRIBUTION : > 1 METER

SEGMENT	1.0-1.2	1.2-1.4	1.4-1.6	1.6-1.8	1.8-2.0	2.0-2.2	2.2-2.4	2.4-2.6	2.6-2.8	2.8-3.0	3.0-3.2	3.2-3.4	3.4-3.6	3.6-3.8	3.8-4.0
QR	1	2	2	1	1	—	—	—	—	—	—	—	—	—	—
RS	4	6	2	2	—	—	—	—	—	—	—	—	—	—	—
ST	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TU	5	2	5	1	—	—	—	—	—	—	—	—	—	—	—
UV	2	4	1	1	0	0	0	1	—	—	—	—	—	—	—
VW	11	1	1	—	—	—	—	—	—	—	—	—	—	—	—
WX	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—
XY	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
ZAA	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—