K-1-76-AR

ICE GOUGE DATA RECORD

1976 II (B)

SEG. SCALE – 1:1326 @ 100M RANGE

VESSEL	KARLUK
TEMPLATE SIZE	3.8 KTS

TRACKLINE: 22

DATE: 260

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	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	0815.0	1.3	–	321	150/–	111	–	L	15	1.49	22.4	15	0	0	0	0	0	<.2	2	<.2		0	–	–	–	–	100	
BC 2	0822.5	1.4	–		10/–	331	–	L	5	2.70	13.5	5	0	0	0	0	0	<.2	1	<.2		1	3	3	331	3.5		
CD 3	0830.3	1.6	–		40/–	001	–	L	3	1.26	3.8	3	0	0	0	0	0	<.2	1	<.2		0	–	–	–	–		
DE 4	0838.8	1.8	–	294	115/–	049	–	L	3	1.01	3.0	3	0	0	0	0	0	<.2	1	<.2		0	–	–	–	–		
EF 5	0849.8	1.7	–		140/–	074	–	L	3	1.26	3.8	3	0	0	0	0	0	<.2	1	<.2		0	–	–	–	3.4		
FG 6	0900.0	1.6	–		120/–	054	–	L	4	1.01	4.2	4	0	0	0	0	0	<.2	2	<.2		0	–	–	–	3.5		
GH 7	0910.6	1.5	–		130/–	064	–	L	3	1.12	3.4	3	0	0	0	0	0	<.2	2	<.2		0	–	–	–	3.5		
HI 8	0919.3	1.5	–		–/–	–	–	–	0	–	0	0	0	0	0	0	0	0	0	0		0	–	–	–	3.5		
IJ 9	0928.2	1.6	–		–/–	–	–	–	0	–	0	0	0	0	0	0	0	0	0	0		0	–	–	–	3.6		
JK 10	0939.7	1.6	–		–/–	–	–	–	0	–	0	0	0	0	0	0	0	0	0	0		0	–	–	–	3.1		
KL 11	0948.0	1.5	–		–/–	–	–	–	0	–	0	0	0	0	0	0	0	0	0	0		0	–	–	–	–		
LM 12	0954.3	1.7	–		–/–	–	–	–	0	–	0	0	0	0	0	0	0	0	0	0		0	–	–	–	–		
MN 13	1002.7	1.7	–	059	–/–	–	–	–	0	–	0	0	0	0	0	0	0	0	0	0		0	–	–	–	3.9		
NO 14	1010.0	1.4	–		20/–	079	–	L	1	1.89	1.9	1	0	0	0	0	0	<.2	2	<.2		0	–	–	–	3.2		
OP 15	1018.4	1.7	–		130/30	189	089	M	4	1.12	4.5	4	0	0	0	0	0	<.2	3	<.2		0	–	–	–	3.6		
PQ 16	1025.7	1.5	–		150/–	209	–	L	4	1.49	6.0	4	0	0	0	0	0	<.2	3	<.2		1	3	12	209	4.3		

ICE GOUGE DATA RECORD

1976 II

TRACKLINE: 22
DATE: 260

VESSEL	KARLUK
TEMPLATE SIZE	3.8 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 °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	1033.0	1.5	–	059	125	–	184	–	L	2	1.07	2.1	2	0	0	0	0	0	<.2	2	<.2		0	–	–	–	3.0	100	
RS 18	1040.0	1.6	–		–	–	–	–	–	0	–	0	0	0	0	0	0	0	0	0	0		0	–	–	–	3.3		
ST 19	1047.0	1.7	–		–	–	–	–	–	0	–	0	0	0	0	0	0	0	0	0	0		0	–	–	–	3.6 / 7.8		
TU 20	1053.0	1.8	–		140	–	199	–	L	3	1.26	3.8	3	0	0	0	0	0	<.2	2	<.2		0	–	–	–	3.5		
UV 21	1058.8	1.9	–		160	–	219	–	L	7	1.89	13.2	7	0	0	0	0	0	<.2	3	<.2		0	–	–	–	3.7 / 8.4		
VW 22	1110.0	2.1	–		160	20	219	079	L	106	1.89	200.3	–	–	–	–	–	–	–	7	–		0	–	–	–	8.0		NO FATHOGRAM THIS SEGMENT. VERY HEAVY GOUGE DENSITY ON THIS SEG.
WX 23	1121.5	–	–		140	30	199	089	L	54	1.26	68.0	54	0	0	0	0	0	<.2	8	<.2		0	–	–	–	–		1 MIN OF FATHOGRAM MISSING FROM SEGMENT. POINT W NOT ON FATHOGRAM PATCHES OF HIGH DENSITY GOUGING.
XY 24	1132.6	2.4	–	359	50	150	049	149	L	74	1.12	82.9	69	5	0	0	0	0	.2	18	.3		0	–	–	–	5.6		PATCHES OF HIGH DENSITY GOUGING. 1 POSSIBLE STRUDLE SCOUR (15M DIAMETER) ½M RIDGE AT END OF HIGH DENSITY GOUGE
YZ 25	1141.2	2.7	–		35	–	034	–	L	7	1.36	9.5	7	0	0	0	0	0	<.2	2	<.2		0	–	–	–	–		
ZAA 26	1149.6	2.6	–		35	–	034	–	L	21	1.36	28.6	21	0	0	0	0	0	<.2	3	<.2		2	4	17	034	–		
AABB 27	1156.6	2.7	–		45	–	044	–	L	18	1.18	21.2	18	0	0	0	0	0	<.2	7	.2		0	–	–	–	–		1 GOUGE TERMINATION WITH PUSH MORAINE
BBCC 28	1205.0	2.8	–		35	160	034	159	L	16	1.36	21.8	16	0	0	0	0	0	<.2	2	<.2		0	–	–	–	–		
CCDD 29	1213.0	2.9	–		35	155	034	154	L	19	1.36	25.8	19	0	0	0	0	0	<.2	3	<.2		0	–	–	–	–		
DDEE 30	1220.0	3.0	–		60	145	059	144	M	60	1.04	62.4	60	0	0	0	0	0	<.2	2	<.2		1	2	4	159	–		
EEFF 31	1226.6	2.9	–		50	130	049	139	M	51	1.12	57.1	51	0	0	0	0	0	<.2	3	<.2		0	–	–	–	–		
FFGG 32	1235.6	3.3	–		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–	–	–	–	5.0		NO SONAR THIS SEGMENT

ICE GOUGE DATA RECORD 1976 II

TRACKLINE: 22
DATE: 260

VESSEL	KARLUK
TEMPLATE SIZE	3.8 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
GGHH 33	1240.7	3.3	–	359	– / –	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–	–	–	–	56	100	NO SONAR THIS SEGMENT. POINT G NOT ON SONAR.
HHII 34	1245.0	3.8	–	↓	95 / 160	094	159	M	31	.99	30 .7	31	0	0	0	0	0	<.2	5	.2		0	–	–	–	6.3		
IIJJ 35	1249.5	4.1	–	019	90 / 150	109	169	L	35	1.00	35 .0	33	2	0	0	0	0	.2	4	.2		1	2	17	089	6.4		
JJKK 36	1258.0	4.6	–		50 / 90	069	109	L	25	1.12	28 .0	25	0	0	0	0	0	<.2	5	<.2		0	–	–	–	7.0		
KKLL 37	1309.3	5.2	–		50 / 155	069	174	L	53	1.12	59 .4	49	4	0	0	0	0	.2	6	.2		2	2	10	174	–		TICK MARKS (5) ORIEN: 114°T L = 215M W = 5M
LLMM 38	1320.7	5.6	–		55 / 115	074	134	M	103	1.07	110 .2	99	4	0	0	0	0	.2	5	.3		2	3	13	159	–		TICK MARKS (8) ORIENT: 124°T L = 225M W = 18M
MMNN 39	1331.0	6.0	–	109	010 / 170	114	279	M	113	2.70	305 .1	104	9	0	0	0	0	.3	7	.3		12	4	12	244	8.7		
NNOO 40	1339.0	5.9	–		170 / 15	279	124	M	107	2.70	288 .9	104	3	0	0	0	0	.2	7	.2		7	8	18	264	8.6 / 13.2		
OOPP 41	1347.0	6.0	–		170 / 10	279	119	M	102	2.70	275 .4	101	1	0	0	0	0	.2	5	<.2		5	4	10	279	8.2 / 13.3		
PPQQ 42	1355.0	6.0	–		10 / 165	119	274	M	88	2.70	237 .6	86	2	0	0	0	0	.2	23	.4		3	8	25	114	12.8	125	TICK MARKS (1) ORIEN: 264°T L = 210 W = 4M
QQRR 43	1402.6	6.0	–		10 / 165	119	274	M	84	2.70	226 .8	81	3	0	0	0	0	.3	5	.3		4	2	15	124	13.1		
RRSS 44	1410.7	6.0	–		165 / 25	274	134	L	88	2.21	194 .5	85	3	0	0	0	0	.2	9	.2		3	2	7	294	8.2 / 13.1	100	
SSTT 45	1418.7	6.1	–		165 / 15	274	124	M	78	2.20	172 .4	76	2	0	0	0	0	.2	13	.2		6	3	7	279	8.3 / 13.2		
TTUU 46	1427.0	6.1	–		170 / 15	279	124	M	64	2.70	172 .8	62	2	0	0	0	0	.2	8	.2		5	3	7	264	13.0		1 GOUGE TERMINATION WITH PUSH MORAINE.
UUVV 47	1435.0	6.1	–		160 / 30	269	139	L	44	1.89	83 .2	43	1	0	0	0	0	.2	6	<.2		5	2	6	134	10.8 / 13.1		
VVWW 48	1443.2	6.0	–		155 / 20	264	129	L	45	1.66	74 .7	45	0	0	0	0	0	<.2	4	<.2		7	6	35	264	10.5 / 12.8		1 GOUGE TERMINATION (MULTI-INCISION)

ICE GOUGE DATA RECORD

1976 II

TRACKLINE: 22

DATE: 260

VESSEL	KARLUK
TEMPLATE SIZE	3.8 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 CROSS 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
WWXX 49	1451.0	6.0	–	109	160/20	269	129	L	57	1.89	107 .7	56	1	0	0	0	0	.2	5	<.2		7	6	19	269	10.2/12.6	100	TICK MARKS (1) ORIEN: 279°T L = 125 W = 1M
XXYY 50	1459.0	6.0	–		160/30	269	139	L	54	1.89	102 .1	52	2	0	0	0	0	.2	8	.2		6	3	10	139	9.0/13.0		
YYZZ 51	1506.8	5.7	–	211	50/–	261	–	L	21	1.12	23 .5	17	4	0	0	0	0	.3	4	.3		1	2	18	341	9.3/12.4		
ZZAAA 52	1515.5	5.3	–		45/–	256	–	L	15	1.18	17 .7	14	1	0	0	0	0	.2	7	.3		0	–	–	–	9.3/11.5		SONAR QUALITY VERY POOR. NUMBERS MAY BE LOWER THAN TRUE VALUES.
AAABBB 53	1524.0	5.0	–		40/–	251	–	L	16	1.26	20 .1	14	2	0	0	0	0	.3	6	.4		0	–	–	–	9.1/10.6		SONAR QUALITY VERY POOR. 2 MIN. OF SEGMENT MISSING. CORRECTION APPLIED
BBBCCC 54	1532.4	4.6	–		120/–	331	–	L	5	1.04	5.2	5	0	0	0	0	0	<.2	3	<.2		0	–	–	–	7.9/10.0		POINT BBB NOT ON SONAR. 1 MIN. OF SEGMENT MISSING ON SONAR. COUNT ADJUSTED.
CCCDDD 55	1540.6	4.2	–		30/–	241	–	L	16	1.49	23 .8	16	2	0	0	0	0	.2	5	.2		0	–	–	–	6.0/9.1		SMALL HOLES IN SEA FLOOR (3) (STRUDLE
DDDEEE 56	1549.5	3.9	–		50/–	261	–	L	10	1.12	11 .2	10	0	0	0	0	0	<.2	2	<.2		0	–	–	–	6.6/8.2		
EEEFFF 57	1558.2	3.5	–		30/–	241	–	L	4	1.49	6.0	4	0	0	0	0	0	<.2	2	<.2		0	–	–	–	6.2/7.7		
FFFGGG 58	1606.4	3.2	–		15/–	226	–	L	2	2.21	4.4	2	0	0	0	0	0	<.2	3	<.2		0	–	–	–	6.7		
GGGHHH 59	1615.0	2.9	–		30/–	233	–	L	4	1.49	6.0	4	0	0	0	0	0	<.2	2	<.2		1	2	12	233	5.8		STRUDLE SCOURS.
HHIII 60	1623.5	2.8	–		145/40	356	251	M	16	1.36	21 .8	16	0	0	0	0	0	<.2	4	<.2		1	2	12	233	5.7		
IIIJJJ 61	1632.1	2.5	–		140/60	351	271	M	24	1.26	30 .2	24	1	0	0	0	0	.2	3	<.2		0	–	–	–	5.4		
JJJKKK 62	1640.0	2.4	–	099	140/–	239	–	L	29	1.26	36 .5	29	0	0	0	0	0	<.2	2	<.2		0	–	–	–	4.6		
KKKLLL 63	1650.0	1.7	–		140/–	239	–	L	11	1.26	13 .9	11	0	0	0	0	0	<.2	2	<.2		0	–	–	–	–	50	
LLLMMM 64	1659.4	2.1	–		150/–	249	–	L	5	1.49	7.5	5	0	0	0	0	0	<.2	1	<.2		0	–	–	–	–	100	STRUDLE SCOURS

ICE GOUGE DATA RECORD

1976 II

TRACKLINE: 22
DATE: 260
SEGMENT

VESSEL: KARLUK
TEMPLATE SIZE: 3.8 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 GOUGED 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
MMMNNN 65	1708.6	2.4	–	099	145 / –	244	–	L	8	1.36	10 .9	8	0	0	0	0	0	<.2	2	<.2		0	–	–	–	4.3 / 5.3	100	ONLY 1/2 KM OF FATHOGRAM FOR TH SEGMENT.
NNNOOO 66	1718.5	2.7	–		130 / –	229	–	L	12	1.12	13 .4	12	0	0	0	0	0	<.2	2	<.2		0	–	–	–	4.5 / 6.2		6 MIN. OF SONAR MISSING FROM SEGMEN COUNT ADJUSTED.
OOOPPP 67	1728.0	3.4	–		150 / –	249	–	L	4	1.49	6.0	4	0	0	0	0	0	<.2	2	<.2		0	–	–	–	5.0 / 7.7		
PPPQQQ 68	1737.5	3.4	–		165 / –	264	–	L	4	2.21	8.8	4	0	0	0	0	0	<.2	3	<.2		0	–	–	–	5.1 / 8.0	100+ / 50	
QQQRRR 69	1747.0	3.8	–		55 / –	154	–	L	9	1.14	10.3	9	0	0	0	0	0	<.2	2	<.2		0	–	–	–	5.1 / 9.0		
RRRSSS 70	1756.2	3.3	–		55 / 130	154	229	L	88	1.14	100 .3	87	1	0	0	0	0	.2	3	<.2		1	3	5	219	5.0		.5 M BENCH - HIGH DENSITY GOUGING SEAWARD OF IT. ICE GROUNDED ON SEAWARD SIDE OF BENCH.
SSTTT 71	1805.5	4.3	–		55 / 135	154	234	L	60	1.14	68 .4	60	0	0	0	0	0	<.2	2	<.2		1	2	4	144	9.6	50+ / 100	
TTTUUU 72	1814.9	4.4	–	211	45 / 125	256	336	M	59	1.18	69 .6	58	1	0	0	0	0	.2	3	<.2		0	–	–	–	9.1		
UUUVVV 73	1824.0	4.1	–		50 / –	261	–	L	50	1.12	56 .0	46	4	0	0	0	0	.2	5	.2		0	–	–	–	9.0		SHOAL AT END OF SEGMENT. CHANGE IN GOUGE DENSITY AT THIS POINT. 1.3 M HIGH RIDGE (BETICA)
VVVWWW 74	1833.7	2.8	–		40 / –	251	–	L	17	1.26	21 .4	17	0	0	0	0	0	<.2	2	<.2		0	–	–	–	5.1		
WWWXXX 75	1843.2	2.9	–		45 / –	256	–	L	41	1.18	48 .4	40	1	0	0	0	0	.2	2	<.2		0	–	–	–	5.0		.5 M RIDGE AT END OF SEGMENT. HIGH DENSITY GOUGING IN AREA LEADI TO RIDGE
XXXYYY 76	1853.0	2.5	–		40 / –	251	–	L	9	1.26	11 .3	9	0	0	0	0	0	<.2	3	<.2		0	–	–	–	5.2		STRUDLE SCOURS
YYYZZZ 77	1902.5	2.5	–		30 / –	241	–	L	31	1.49	46 .2	31	0	0	0	0	0	<.2	5	<.2		0	–	–	–	4.9		STRUDLE SCOURS - 2 SHOALS .3 M HIGH EACH. GOUGING IS ON FLANKS AND CRESTS OF THESE IN THIS SEG
ZZZAAA 78	1912.3	2.4	–		25 / –	236	–	L	34	1.66	56 .4	34	0	0	0	0	0	<.2	3	<.2		0	–	–	–	4.3		STRUDLE SCOURS - SERIES OF SHOA SEAWARD FLANK AND CREST OF THE 1 SHOAL HAS MOST OF GOUGING IN SEG.
END AAAA	1922.0	1.4	–		/																					3.7		