LINE	55	DATE	253	YEAR	1980	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
HHII	2														

ICE GOUGE DATA RECORD 1980

START SEG. SCALE 1:1695

VESSEL	KARLUK
TEMPLATE SIZE	4.0 KTS

...CHLING 59A ...ATE 63 ...GMENT 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
AB 1	1206.0	—	28.0	180	45/130	225	310	H	98	1.13	110 .7	54	19	16	3	2	4	1.2	16	1.6		2	3	25	310	—	125	PT. A NOT ON FATHOGRAM. .25 KM OF FATHOMETER MISSING.
BC 2	1213.8	22.5	27.0		50/120	230	300	H	95	1.08	102 .6	40	29	13	5	3	5	1.5	13	1.2		0	—	—	—	30.0		
CD 3	1221.5	22.2	26.0		105/65	285	245	H	101	.97	98 .0	47	33	11	6	3	1	1.1	8	1.0		2	8	48	220	28.2		
DE 4	1229.5	21.3	25.0		55/125	235	305	M	127	1.04	132 .1	83	28	12	2	1	1	1.0	9	1.2		3	2	12	330	29.5		
EF 5	1237.7	18.8	24.0		70/110	250	290	M	32	.98	31 .4	30	1	1	0	0	0	.4	5	.7		3	3	11	220	27.1		~~[illegible]~~ SHOAL CREST AT MIDPOINT. (SANDY BOTTOM ?)
FG 6	1245.0	18.8	23.0		130/75	310	295	L	13	1.08	14 .0	13	0	0	0	0	0	<.2	3	<.2		0	—	—	—	25.1		
GH 7	1252.8	17.4	22.0		130/25	310	205	M	6	1.08	6.5	6	0	0	0	0	0	<.2	6	<.2		0	—	—	—	23.1		
HI 8	1300.0	18.5	21.0		105/—	285	—	L	2	.97	1.9	2	0	0	0	0	0	<.2	3	<.2		0	—	—	—	—		
IJ 9	1307.3	20.0	20.0		100/90	280	270	M	21	.97	20 .4	18	3	0	0	0	0	.2	8	.5		0	—	—	—	27.6		DENSITY PICKS UP AT SEG. END.
J END	1315.0	20.5	19.0																							—		

LINE	59A	DATE	263	YEAR	1980	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	2	2													
BC	1	2	2												
CD	1														
DE	1														

ICE GOUGE DATA RECORD

1980

START SEG. SCALE 1:1695

VESSEL	KARLUK
TEMPLATE SIZE	4.0 KTS

CHLINE 9B / DATE 63 / GMENT 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 CODE	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 RIDGE LENGTH M	MULTI-INCISION GOUGES NUMBER	MAXIMUM INCISIONS PER GOUGE	MAXIMUM DISRUPTION WIDTH M	DOMINANT ORIENTATION	DEPTH TO FIRST REFLECTOR M	SONAR RANGE M	REMARKS
AB 1	1523.0	24.6	34.0	195	75/40	290	235	L	78	.97	75 .7	52	14	8	1	1	2	1.4	12	.9		1	4	18	220	—	125	BEGINNING OF SEGMENT SONAR NOT CLEAR. COUNT MAY BE HIGHER. FATHOGRAM POOR.
BC 2	1530.8	26.0	33.0		60/70	255	265	M	80	1.01	80 .8	36	20	11	6	3	4	1.1	10	1.1		5	4	35	255	33.1		
CD 3	1538.0	25.5	32.0		—/—	—	—	—	—	—	—	—	—	—	—	—	—	1.5	—	.9		—	—	—	—	34.5		NO SONAR.
DE 4	1544.8	25.2	31.0		55/75	250	270	L	119	1.04	123 .8	82	23	7	4	1	2	1.1	8	.8		3	7	20	215	31.8		PT. D NOT ON SONAR. .15 KM. OF SONAR MISSING COUNT ADJUSTED
EF 5	1552.0	24.4	30.0		55/125	250	320	L	108	1.04	112 .3	77	23	7	1	0	0	.7	12	1.1		4	3	13	240	32.0		SOME FATHOGRAM MISSING (2 MIN.)
FG 6	1559.0	—	29.0		45/130	240	325	H	92	1.13	104 .0	—	—	—	—	—	—	—	7	—		2	2	13	220	—		NO FATHOGRAM
GH 7	1606.2	—	28.0		55/65	250	260	L	125	1.04	130 .0	77	25	15	4	2	2	1.1	10	1.0		6	4	25	260	—		NO FATHOGRAM FOR SEGMENT BEGINNING (2 MIN.).
HI 8	1614.0	22.0	27.0		50/130	245	325	L	93	1.08	100 .4	54	26	12	0	1	0	.8	23	.8		2	2	13	320	27.2		(1:2008)
IJ 9	1621.3	21.4	26.0		40/130	235	325	L	137	1.20	164 .4	91	32	12	1	0	1	1.0	7	1.1		4	9	57	215	—		
JK 10	1628.5	21.0	25.0		35/120	230	315	L	145	1.28	185 .6	110	27	6	2	0	0	.7	7	.9		5	9	55	215	29.0		
KL 11	1636.0	20.6	24.0		50/120	245	315	L	167	1.08	180 .4	130	32	5	0	0	0	.5	10	.5		4	4	16	210	—		
LM 12	1644.0	20.1	23.0		45/90	240	285	M	117	1.13	132 .2	91	25	1	0	0	0	.5	12	.6		2	4	11	210	—		(1:1695)
MN 13	1651.6	20.0	22.0		50/90	245	285	L	86	1.08	92 .9	58	27	1	0	0	0	.4	6	.5		0	—	—	—	26.4		
NO 14	1659.3	20.0	21.0		65/90	260	285	M	67	.99	66 .3	58	9	0	0	0	0	.3	8	.8		2	4	33	225	25.2		GOUGES BEGIN TO APPEAR INFILLED.
OP 15	1706.6	19.6	20.0		70/90	265	285	M	34	.98	33 .3	27	6	1	0	0	0	.5	13	.5		0	—	—	—	—		GOUGES APPEAR SMOOTHED IN RELIEF. (1:2008)
P END	1713.0	19.5	19.0		/																					25.5		

LINE	59B	DATE	263	YEAR	1980	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	2														
BC	4														
DE	2														
GH	2														
IJ	1														

ICE GOUGE DATA RECORD

1980

START SEG. SCALE 1:2008

VESSEL	KARLUK
TEMPLATE SIZE	4.6 KTS

CALLING: 00A
DATE: 64
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	1027.0	26.4	37.0	180	105/80	285	260	L	57	.97	55.3	13	26	11	5	1	1	1.0	19	.9		0	–	–	–	–	125	ORIENTATION AND QUALITY MAKE SMALLER GOUGES DIFFICULT TO SEE.
BC 2	1034.7	26.5	36.0	↓	75/100	255	280	M	68	.97	66.0	25	27	11	3	0	2	1.2	7	1.0		0	–	–	–	–		
CD 3	1042.0	26.3	35.0	190	55/90	245	280	L	105	1.04	109.2	59	29	10	6	1	0	.9	10	.9		2	3	27	245	–		COURSE CHANGE IMPROVES QUALITY OF SONAR. CAN SEE SOME SMALLER GOUGES.
DE 4	1051.0	–	34.0		55/90	245	280	M	115	1.04	119.6	–	–	–	–	–	–	1.8	8	1.0		2	6	47	230	–		NO FATHOGRAM UNTIL SEG. END.
EF 5	1100.0	25.3	33.0		60/75	250	265	L	139	1.01	140.4	95	27	9	3	4	1	1.0	17	1.6		3	2	17	235	–		
FG 6	1109.0	25.2	32.0		50/130	240	320	L	143	1.08	154.4	99	32	8	3	1	0	.8	7	.8		5	3	25	220	–		
GH 7	1118.0	24.2	31.0		45/160	235	350	L	167	1.13	188.7	133	20	10	2	2	0	.8	10	.8		6	4	30	210	–		
HI 8	1126.8	23.1	30.0		40/110	230	300	L	145	1.20	174.0	92	27	18	5	2	1	1.1	13	1.1		4	2	22	205	–		
IJ 9	1135.9	23.0	29.0		40/130	230	320	L	117	1.20	140.4	77	27	7	3	2	1	1.8	8	1.5		0	–	–	–	–		
JK 10	1144.5	22.5	28.0		55/130	245	320	L	140	1.04	145.6	103	20	13	3	1	0	.8	15	1.4		5	5	25	240	–		
KL 11	1152.0	22.0	27.0		45/135	235	325	L	119	1.13	134.5	80	21	13	2	2	1	1.0	12	1.0		2	5	25	330	–		
LM 12	1159.0	21.5	26.0		40/90	230	280	M	139	1.20	166.8	–	–	–	–	–	–	–	12	–		3	5	42	205	–		NO FATHOGRAM
M END	1206.8	–	25.0	↓																						–		NO FATHOGRAM

LINE	60A	DATE	264	YEAR	1980	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	1														
BC	1	1													
EF	1														
HI	1														
IJ	0	0	0	0	1										
KL	1														

ICE GOUGE DATA RECORD 1980

START SEG. SCALE 1:1695

VESSEL	KARLUK
TEMPLATE SIZE	4.0 KTS

ACHLINE / OB / ATE / 64 / GMENT / 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
AB 1	1532.0	23.8	36.0	045	60/20	105	065	L	101	1.01	102.0	49	24	14	8	1	5	1.1	10	1.1		5	7	39	065	—	125	MANY DETOURS DUE TO ICE. SOME SWELL ALSO.
BC 2	1540.2	23.6	36.6		50/105	095	150	L	82	1.08	88.6	38	29	11	2	0	2	1.1	5	.7		1	14	70	040	—		
CD 3	1548.2	23.9	37.1		50/175	095	220	L	129	1.08	139.3	85	36	7	1	0	0	.7	24	.8		1	4	17	060	—		PRESSURE RIDGE TYPE SCOUR - orien - 220°T, 14 incisions
DE 4	1556.3	24.4	37.7		65/20	110	065	L	117	.99	115.8	87	21	7	1	1	0	.8	18	.6		3	2	13	105	—		
EF 5	1604.1	24.4	38.2		45/125	090	170	L	113	1.13	127.7	64	44	3	2	0	0	.7	7	1.2		3	3	14	105	—		
FG 6	1612.8	24.3	38.8		55/145	100	190	L	94	1.04	97.8	59	22	8	4	1	0	.8	7	.9		2	4	13	135	—		
GH 7	1621.0	24.5	39.3		—	—	—	—	—	—	—	—	—	—	—	—	—	1.1	—	1.0		—	—	—	—	—		course changes due to ice cause resolution problems on both systems
HI 8	1628.4	24.2	39.9		—	—	—	—	—	—	—	—	—	—	—	—	—	.8	—	.9		—	—	—	—	—		
I END	1636.2	23.7	40.4																							—		

LINE	60B	DATE	264	YEAR	1980	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	5														
BC	2														