

Figure 9. Comparative boat data from simulation program

Collection Type Number	Length	Beam	Wgt	Disp. to Sheer	LWL	VCG	LCG	CP	Spd	Spd / Lgt	Wet Surf Area	Fric Res.	Righting Moment at Degrees of Heel					
													1	10	20	30	40	50
													xx.x	xx.x	xx.x	xx.x	xx.x	xx.x
Koryak MEP 11413	322.5	71.0	19.2	235.5	284.6	29.7	169.4	.52	3.8	1.6	1.3	1.9	0.4	2.1	3.3	3.2	1.2	-1.9
Koryak AMNH 70-3358	270.3	64.3	30.0	128.0	245.0	21.5	128.9	.62	3.5	1.8	1.3	1.7	0.4	1.4	-2.0			
Koryak MAE 956-49	258.5	72.0	15.0	114.3	242.2	27.7	142.2	.53	3.5	1.8	1.2	1.5	0.4	2.0	1.3	-0.4		
Chukchi EMS 1880.4.1255	462.7	62.9	20.0	316.7	420.9	28.6	229.1	.53	4.6	1.4	1.7	3.3	0.04	0.4	0.8	0.7	0.9	-0.5
Chukchi MEP 2083-61A	489.5	49.4	12.2	254.9	452.8	27.2	244.7	.81	4.8	1.3	1.6	3.4	0.1	0.1	0.2	0.1	-0.9	
Aleut-1 BM PE.10	528.3	49.5	20.0	292.2	482.9	24.2	301.3	.65	5.0	1.3	1.8	3.9	0.02	0.2	-1.1			
Aleut-1 USNM 76282	539.7	50.8	15.4	300.8	468.2	23.7	300.0	.59	4.9	1.3	1.6	3.5	0.04	0.4	0.9	0.8	-0.5	
Aleut-1 MAE 593-76	581.4	43.4	27.0	251.5	527.1	27.0	330.4	.55	5.2	1.2	1.8	4.3	-0.04					
Aleut-1 IN 2-14886	509.5	51.7	12.0	275.2	460.4	27.2	283.7	.50	4.9	1.3	1.6	3.5	0.03	0.3	0.4	-0.6		
Aleut-2 USNM 160336	629.0	55.9	15.8	444.5	581.1	28.7	334.6	.57	5.5	1.2	2.5	6.5	0.1	0.7	1.1	-1.4		
Kodiak-1 DNM 160	434.0	65.5	20.0	279.4	411.2	24.1	235.6	.62	4.6	1.4	1.7	3.3	0.3	2.5	4.7	6.0	5.1	3.0
Kodiak-2 WSHS N/N	596.4	74.9	36.3	477.5	544.3	23.7	329.1	.54	5.3	1.2	2.7	6.7	0.8	8.0	13.2	12.1	7.2	0.5
Bristol Bay USNM 76285	459.7	73.7	30.0	315.6	440.0	21.6	234.1	.59	4.7	1.3	1.8	3.6	0.3	2.5	5.2	4.9	2.6	-1.7
Nunivak USNM 160341	455.9	76.2	30.0	346.9	389.0	22.0	225.8	.63	4.5	1.4	1.7	3.2	0.3	3.1	6.4	5.3	2.2	-0.9
Hooper Bay NMM IV-E-1071	460.7	78.0	25.0	370.1	410.1	28.2	238.1	.69	4.6	1.4	1.6	3.1	0.2	1.6	3.5	3.1	1.4	-21.3
Norton Sound BM PE.9	511.8	64.8	18.1	353.7	436.8	27.5	269.0	.56	4.7	1.3	1.6	3.3	0.1	0.6	1.3	1.3	0.01	-2.3
Norton Sound USNM 160175	517.7	59.7	30.0	306.4	472.8	22.0	277.2	.60	4.9	1.3	1.7	3.7	0.03	0.4	1.2	2.9	-0.6	
Norton Sound LM 2-1674	522.7	71.8	40.4	342.9	457.1	22.1	281.7	.57	4.8	1.3	1.8	3.8	0.2	2.2	5.3	4.4	1.9	-****

Figure 9. continued

Type	Collection Number	Length	Beam	Wgt	Disp. to Sheer	LWL	VCG	LCG	CP	Spd	Spd / Lgt	Wet Surf Area	Fric Res.	Righting Moment at Degrees of Heel					
														1	10	20	30	40	50
		xxx.x	xx.x	xx.x	xxx.x	xxx.x	xx.x	xxx.x	xx	x.x	x.x	x.x	xx.x	xx.x	xx.x	xx.x	xx.x	xx.x	xx.x
King Island USNM 160326		467.4	64.8	15.5	236.4	387.6	25.2	251.5	.60	4.5	1.4	1.4	2.5	0.03	0.4	1.4	0.7	-1.0	
Bering Strait DNM Hb.221		442.0	58.6	15.9	246.4	358.1	24.0	246.6	.61	4.3	1.5	1.4	2.5	0.0	0.03	0.4	1.3	-0.9	
N Alaska R UPM XI		291.5	59.0	11.3	178.2	255.5	25.7	153.6	.66	3.6	1.7	1.2	1.6	0.1	1.2	2.0	1.3	-0.9	
Pt. Barrow IM 2-6349		525.6	47.8	12.2	283.4	463.9	25.5	264.9	.67	4.9	1.3	1.6	3.5	0.0	0.1	-0.1			
Nunamiut UAM UA72-78-1		585.5	59.6	13.5	408.7	514.6	26.4	294.0	.71	5.1	1.2	1.9	4.4	0.1	1.3	1.3	2.5	2.0	0.02
Mackenzie MAI N/N		487.7	48.5	30.0	286.2	435.8	22.4	253.9	.62	4.7	1.3	1.6	3.3	-0.02	-0.1	0.2	-0.7		
Mackenzie DNM P31:64a		443.4	49.4	15.0	253.9	391.9	26.6	241.2	.61	4.5	1.4	1.4	2.6	-0.1					
Mackenzie NMM IV-D-2039		501.0	48.2	20.0	282.9	438.2	23.1	259.0	.62	4.7	1.3	1.5	3.1	-0.03					
Mackenzie NMM IV-D-1058		388.5	48.0	15.0	225.0	344.4	24.2	214.7	.61	4.2	1.5	1.3	2.3	-0.03					
Copper 14V IV-D-1057		711.2	40.1	20.0	305.8	643.2	22.6	413.5	.85	5.7	1.1	2.0	5.8	-0.1					
Netsilik NMM IV-C-708		615.9	45.7	16.3	306.4	562.9	23.2	367.4	.63	5.4	1.2	1.9	4.9	0.02	0.3	0.5	-0.2		
Caribou BM 4:1900/2:11		588.0	53.1	18.1	379.2	415.7	25.7	276.9	.58	4.6	1.4	1.6	3.1	0.02	0.1	0.1	0.1	-1.0	
Caribou BM 4:1900/1:11		735.3	46.0	30.0	422.7	556.0	28.4	375.7	.69	5.3	1.2	1.9	4.8	-0.1					
Caribou NMM Acc.76/13/87		596.9	45.7	13.2	331.6	485.5	24.2	328.7	.67	5.0	1.3	1.6	3.6	-0.03					
E Hudson B. NMM 77/22/1		487.7	74.9	27.2	350.0	338.6	22.7	280.9	.64	4.2	1.5	1.6	2.8	0.3	2.9	4.4	5.3	2.5	-1.7
E Hudson B. NMM IV-B-743		548.6	70.6	29.5	455.0	438.6	22.0	298.9	.69	4.7	1.3	2.0	4.2	0.4	4.0	6.3	8.0	4.7	1.1
E Hudson B. NMM IV-B-744		709.9	71.1	54.0	684.5	584.3	20.9	403.2	.68	5.5	1.1	2.6	6.9	0.4	4.3	7.8	10.3	8.1	4.6
E Hudson B. NMM IV-X-705		563.9	72.4	40.8	600.0	395.1	22.1	325.1	.72	4.5	1.4	2.2	4.1	0.4	3.9	6.7	9.3	0.4	-5.1
H/D Straits MAI N/N		685.8	63.5	34.0	534.9	573.4	21.8	374.8	.71	5.4	1.2	0.8	2.0	0.9	5.5	11.1	9.2	4.5	0.1
H/D Straits USNM 160346		665.5	59.2	27.2	432.3	471.0	23.0	372.1	.55	4.9	1.3	1.9	4.2	0.2	2.1	2.6	4.4	2.4	-0.9

Figure 9. Continued

Type	Collection Number	Length	Beam	Wgt	Disp. to Sheer	LWL	VCG	LCG	CP	Spd	Spd / Lgt	Wet Surf Area	Fric Res.	Righting Moment at Degrees of Heel					
														1	10	20	30	40	50
		xxx.x	xx.x	xx.x	xxx.x	xxx.x	xx.x	xxx.x	xx	x,x	x.x	x.x	xx.x	xx.x	xx.x	xx.x	xx,x	xx.x	
H/D Strait NMM IV-B-1620		777.2	67.3	64.9	650.0	615.3	20.2	430.9	.63	5.6	1.1	2.8	7.9	0.5	5.4	8.3	10.5	5.9	1.2
H/D Straits (f) MAI N/N		732.3	59.2	34.0	452.9	569.5	18.2	419.2	.57	5.4	1.2	2.2	5.6	0.4	2.9	6.2	6.4	6.2	7.4
H/D Strait NMM IV-B-1445		449.6	64.3	20.4	253.3	364.0	22.6	255.1	.64	4.3	1.5	1.7	3.2	0.2	2.2	2.8	1.7	-1.9	
Cumb. Pen. NMM IV-X-96		401.3	63.5	25.4	340.9	312.0	22.8	225.6	.69	4.0	1.6	1.7	2.8	0.3	2.8	4.1	5.3	3.6	0.6
Davis St. NMM IV-C-4550		614.7	67.3	33.1	422.5	446.6	22.1	351.7	.61	4.8	1.3	2.1	4.3	0.5	4.3	6.4	7.0	4.8	0.7
N Baffin RSM UC 765.1		542.3	59.2	34.0	315.9	408.5	23.7	304.4	.59	4.6	1.4	1.6	3.1	0.2	1.6	3.0	2.9	1.2	-1.5
Iglulik NMM IV-C-4094		657.9	70.6	31.8	463.4	507.5	23.2	335.9	.58	5.1	1.2	2.2	5.1	0.4	4.2	5.8	7.0	5.0	0.9
Polar USNM 160388		518.2	56.1	22.7	330.6	461.5	22.6	272.7	.58	4.9	1.3	1.9	4.0	0.1	0.8	2.1	3.0	1.3	-1.4
Polar (f) MAI 18/6541		490.2	55.9	30.0	304.8	404.7	22.7	268.8	.59	4.6	1.4	1.8	3.4	0.01	0.2	1.2	-0.3		
Upernavik Ken Taylor		504.8	53.2	30.0	214.6	411.7	22.1	265.0	.54	4.6	1.4	1.6	3.2	0.1	0.8	1.6	0.5	-1.6	
Disko Bay BM PE.3		535.3	47.3	30.0	178.4	452.5	22.0	277.7	.54	4.8	1.3	1.6	3.4	0.0	0.1	-0.6			
Disko Bay CUM Z.15360		499.1	51.1	18.1	198.0	401.5	25.7	262.8	.49	4.5	1.4	1.5	2.8	-0.01					
S Greenland BM AM.10		585.5	43.4	18.1	165.8	461.2	30.9	296.9	.39	4.9	1.3	1.6	3.4	-0.1					
E Greenland RGS N/N		566.4	48.3	18.1	175.6	438.2	24.6	289.6	.53	4.7	1.3	1.6	3.2	-0.01					
Gantock Single (modern)		487.7	58.4	14.5	234.4	394.5	24.0	227.9	.52	4.5	1.4	1.6	2.9	0.1	1.1	0.5	0.2	-2.0	
Umiak, N. Alaska		895.1	179	136	4900	619.7	33.7	460.6	.55	5.6	1.1	4.1	11.5	2.0	20.9	44.2	66.4	30.3	-****
Umiak, W. Coast Alaska		631.2	146	136	2009	525.8	27.6	340.7	.62	5.2	1.2	4.5	10.8	4.0	42.5	101.2	78.7	54.3	-314.7
Sharpie		1013.5	244	1772	9413	803.4	46.7	472.5	.55	6.4	1.0	13.?	41.?	17.0	33.5	23.7	12.9	0.3	-11.4
Sharpie, N. Carolina		610.9	173	771	2622	495.8	29.8	291.5	.54	5.0	1.2	7.1	16.1	8.8	91.2	149.6	171.0	125.0	56.2