				Shallow	Deep	Sea Ice	Large		Benthic
LME	Species	IBA	Season	SWT	SWT	Cover	Copepods	Euphausiids	Infauna
Aleutian Islands	ANMU	Buldir & Near Islands Marine	Summer	67%	67%			0%	
Aleutian Islands	ANMU	Buldir Island Colony	Summer	67%	67%			33%	
Aleutian Islands	ANMU	Fenimore Pass & Atka Island Marine	Summer	100%	100%			67%	
Aleutian Islands	ANMU	Koniuji-Atka Island Colony	Summer	100%	100%			67%	
Aleutian Islands	BLKI	Buldir Island Colony	Summer	67%	67%			33%	
Aleutian Islands	CRAU	Buldir Island Colony	Summer	67%	67%		67%	33%	
Aleutian Islands	CRAU	Gareloi Island Marine	Summer	100%	100%		33%	33%	
Aleutian Islands	FTSP	Buldir Island Colony	Summer	67%	67%		67%	33%	
Aleutian Islands	FTSP	Koniuji-Atka Island Colony	Summer	100%	100%		33%	67%	
Aleutian Islands	GWGU	Buldir & Near Islands Marine	Summer	33%	67%			33%	
Aleutian Islands	GWGU	Fenimore Pass & Atka Island Marine	Summer	100%	100%			67%	
Aleutian Islands	GWGU	Fenimore Pass & Atka Island Marine	Summer	100%	100%			67%	
Aleutian Islands	GWGU	Fenimore Pass & Atka Island Marine	Winter	100%	100%			67%	
Aleutian Islands	GWGU	Kiska Island Colonies	Summer	67%	67%			33%	
Aleutian Islands	LEAU	Gareloi Island Marine	Summer	100%	100%		33%	33%	
Aleutian Islands	LEAU	Kiska Island Marine	Summer	67%	67%		33%	33%	
Aleutian Islands	LEAU	Segula & Davidof Islands Colonies	Summer	33%	67%		33%	33%	
Aleutian Islands	LESP	Buldir Island Colony	Summer	67%	67%		67%	33%	
Aleutian Islands	NOFU	Chagulak Island Marine	Summer	100%	100%			0%	
Aleutian Islands	NOFU	Chagulak Island Marine	Winter	100%	100%			100%	
Aleutian Islands	NOFU	Seguam Island Marine	Summer	100%	100%			33%	
Aleutian Islands	PAAU	Buldir & Near Islands Marine	Summer	67%	67%		33%	67%	
Aleutian Islands	PAAU	Buldir Island Colony	Summer	67%	67%		67%	33%	
Aleutian Islands	PAAU	Fenimore Pass & Atka Island Marine	Summer	100%	100%		33%	67%	
Aleutian Islands	PAAU	Gareloi Island Marine	Summer	100%	100%		33%	33%	
Aleutian Islands	RLKI	Buldir Island Colony	Summer	67%	67%			33%	
Aleutian Islands	WHAU	Amchitka Pass 180W51N	Summer	67%	67%		33%	33%	

S3 Table. Model vulnerability agreement, by species core area. Values in bold indicate core areas where all three model results exceeded the climate vulnerability threshold.

LME	Species	IBA	Season	Shallow SWT	Deep SWT	Sea Ice Cover	Large Copepods	Euphausiids	Benthic Infauna
Aleutian Islands	WHAU	Buldir & Near Islands Marine	Summer	67%	67%		33%	33%	
Aleutian Islands	WHAU	Buldir Island Colony	Summer	67%	67%		67%	33%	
Aleutian Islands	WHAU	Fenimore Pass & Atka Island Marine	Summer	100%	100%		33%	67%	
Aleutian Islands	WHAU	Fenimore Pass & Atka Island Marine	Summer	100%	100%		33%	67%	
Aleutian Islands	WHAU	Gareloi Island Marine	Summer	100%	100%		33%	33%	
Aleutian Islands	WHAU	Kagamil Island Marine	Summer	100%	100%		0%	0%	
Aleutian Islands	WHAU	Kiska Island Marine	Summer	67%	67%		33%	33%	
Aleutian Islands	WHAU	Seguam Island Marine	Summer	100%	100%		33%	33%	
Eastern Bering Sea	BLKI	Cape Peirce & Cape Newenham	Summer	100%		100%		0%	
Eastern Bering Sea	BLKI	Ilnik Marine	Summer	100%				0%	
Eastern Bering Sea	BLKI	Izembek Lagoon & Bechevin Bay	Summer	100%				67%	
Eastern Bering Sea	BLKI	St. Matthew & Hall Islands Colonies	Summer	100%				67%	
Eastern Bering Sea	BLKI	Unimak & Akutan Passes	Summer	100%	100%			33%	
Eastern Bering Sea	BLSC	Northern Alaska Peninsula Coastal	Spring	67%					33%
Eastern Bering Sea	BLSC	Northern Alaska Peninsula Coastal	Spring	100%					33%
Eastern Bering Sea	BLSC	Port Moller	Fall	100%					33%
Eastern Bering Sea	BLSC	Port Moller	Spring	100%					33%
Eastern Bering Sea	CRAU	St. Matthew & Hall Islands Colonies	Summer	100%			0%	67%	
Eastern Bering Sea	CRAU	Unimak & Akutan Passes	Winter	100%	100%		33%	100%	
Eastern Bering Sea	FTSP	Bering Sea Shelf Edge 173W58N	Summer	100%	67%		33%	67%	
Eastern Bering Sea	FTSP	Bering Sea Shelf Edge 178W61N	Summer	100%	67%	100%	33%	0%	
Eastern Bering Sea	GLGU	Bering Sea Shelf 170W58N	Winter	100%		100%		67%	
Eastern Bering Sea	GLGU	Bering Sea Shelf Edge 174W59N	Winter	100%	67%			100%	
Eastern Bering Sea	GWGU	Bering Sea Shelf 163W56N	Winter	100%	100%			33%	
Eastern Bering Sea	GWGU	Bering Sea Shelf 165W56N	Winter	100%				33%	
Eastern Bering Sea	GWGU	Bering Sea Shelf 166W56N	Winter	100%	100%			33%	
Eastern Bering Sea	GWGU	Bering Sea Shelf 166W57N	Winter	100%	100%			33%	
Eastern Bering Sea	GWGU	Bering Sea Shelf Edge 166W55N	Winter	100%	100%			100%	
Eastern Bering Sea	GWGU	Bering Sea Shelf Edge 168W56N	Winter	100%	100%			33%	

LME	Species	IBA	Season	Shallow SWT	Deep SWT	Sea Ice Cover	Large Copepods	Euphausiids	Benthic Infauna
Eastern Bering Sea	GWGU	Cape Tanak Marine	Winter	100%	100%			100%	
Eastern Bering Sea	GWGU	Izembek Lagoon & Bechevin Bay	Fall	100%				67%	
Eastern Bering Sea	GWGU	Northern Alaska Peninsula Coastal	Fall	100%				33%	
Eastern Bering Sea	GWGU	Port Moller	Fall	100%				33%	
Eastern Bering Sea	GWGU	Unimak & Akutan Passes	Summer	100%	100%			33%	
Eastern Bering Sea	KIEI	Cape Vancouver Marine	Spring	100%		100%			67%
Eastern Bering Sea	KIEI	Northern Alaska Peninsula Coastal	Spring	100%					33%
Eastern Bering Sea	KIEI	Nushagak & Kvichak Bays	Spring	100%		100%			67%
Eastern Bering Sea	KIMU	Unimak & Akutan Passes	Summer	100%	100%			33%	
Eastern Bering Sea	LEAU	St. Matthew & Hall Islands Colonies	Summer	100%		100%	0%	33%	
Eastern Bering Sea	NOFU	Bering Sea Shelf Edge 174W59N	Summer	100%	67%			67%	
Eastern Bering Sea	NOFU	St. Matthew & Hall Islands Colonies	Summer	100%				67%	
Eastern Bering Sea	PAAU	St. Matthew & Hall Islands Colonies	Summer	100%		100%	0%	33%	
Eastern Bering Sea	PAAU	St. Paul Island Colony	Summer	100%			33%	33%	
Eastern Bering Sea	RLKI	St. George Island Marine	Summer	100%	100%			33%	
Eastern Bering Sea	RLKI	St. George Island Marine	Winter	100%	100%			33%	
Eastern Bering Sea	SOSH	Unimak & Akutan Passes	Summer	100%	100%			33%	
Eastern Bering Sea	STEI	Izembek Lagoon & Bechevin Bay	Fall	100%					67%
Eastern Bering Sea	STEI	Izembek Lagoon & Bechevin Bay	Spring	100%					33%
Eastern Bering Sea	STEI	Jacksmith Bay to Cape Pierce	Spring	100%		100%			33%
Eastern Bering Sea	STEI	Kuskokwim Bay	Spring	100%		100%			67%
Eastern Bering Sea	STEI	Northern Alaska Peninsula Coastal	Fall	100%					33%
Eastern Bering Sea	STEI	Northern Alaska Peninsula Coastal	Spring	100%					33%
Eastern Bering Sea	STEI	Port Moller	Fall	100%					33%
Eastern Bering Sea	STEI	Port Moller	Spring	100%					33%
Eastern Bering Sea	STSH	Unimak & Akutan Passes	Summer	100%	100%			33%	
Eastern Bering Sea	TBMU	St. Matthew & Hall Islands Colonies	Summer	100%				67%	
Eastern Bering Sea	WHAU	Unimak & Akutan Passes	Summer	100%	100%		33%	0%	
Eastern Bering Sea	WHAU	Unimak & Akutan Passes	Winter	100%	100%		33%	100%	

LME	Species	IBA	Season	Shallow SWT	Deep SWT	Sea Ice Cover	Large Copepods	Euphausiids	Benthic Infauna
Eastern Bering Sea	WWSC	Ilnik Marine	Winter	100%					33%
Eastern Bering Sea	WWSC	Northern Alaska Peninsula Coastal	Spring	67%					33%
Northern Bering Sea	BLKI	Diomede Islands Colonies	Summer	100%				0%	
Northern Bering Sea	CRAU	Diomede Islands Colonies	Summer	67%		67%	33%	0%	
Northern Bering Sea	CRAU	Savoonga Colonies	Summer	100%		33%	33%	0%	
Northern Bering Sea	CRAU	Southwest Cape Colonies	Summer	67%		100%	0%	0%	
Northern Bering Sea	CRAU	Western St. Lawrence Island Marine	Summer	67%		67%	0%	33%	
Northern Bering Sea	LEAU	Savoonga Colonies	Summer	100%		33%	33%	0%	
Northern Bering Sea	PAAU	Bering Strait	Summer	67%		67%	33%	0%	
Northern Bering Sea	PAAU	Diomede Islands Colonies	Summer	67%		67%	33%	0%	
Northern Bering Sea	PAAU	King Island Colony	Summer	100%			0%	0%	
Northern Bering Sea	SPEI	East Norton Sound	Summer	33%		67%			0%
Northern Bering Sea	SPEI	St. Lawrence Island Polynya	Winter	100%		100%			33%
Northern Bering Sea	SPEI	Western St. Lawrence Island Marine	Summer	67%		100%			0%
Gulf of Alaska	ALTE	Eastern Kodiak Island Marine	Summer	100%				33%	
Gulf of Alaska	ANMU	Castle Rock Colonies	Summer	67%				33%	
Gulf of Alaska	ANMU	Cherni Island Complex Colonies	Summer	100%				33%	
Gulf of Alaska	ANMU	Shumagin Islands Marine	Summer	100%	67%			0%	
Gulf of Alaska	BLKI	Barren Islands Colonies	Summer	67%				0%	
Gulf of Alaska	BLKI	Castle Rock Colonies	Summer	67%				33%	
Gulf of Alaska	BLKI	Semidi Islands Colonies	Summer	67%	67%			0%	
Gulf of Alaska	BLKI	Spitz Island Colony	Summer	67%				0%	
Gulf of Alaska	BLSC	Kachemak Bay	Winter	67%					33%
Gulf of Alaska	BLSC	Marmot Bay	Winter	100%					67%
Gulf of Alaska	CAAU	Castle Rock Colonies	Summer	67%			0%	33%	
Gulf of Alaska	CAAU	Cherni Island Complex Colonies	Summer	100%			33%	33%	
Gulf of Alaska	CAAU	Gulf of Alaska Shelf 155W57N	Summer	67%	100%		0%	0%	
Gulf of Alaska	GWGU	Bird Island Colony	Summer	100%				33%	
Gulf of Alaska	GWGU	Cape Douglas to Amalik Bay	Fall	67%	100%			0%	

LME	Species	IBA	Season	Shallow SWT	Deep SWT	Sea Ice Cover	Large Copepods	Euphausiids	Benthic Infauna
Gulf of Alaska	GWGU	Cold & Morzhovoi Bays	Summer	100%				33%	
Gulf of Alaska	GWGU	Gulf of Alaska Shelf 151W58N	Winter	67%	67%			67%	
Gulf of Alaska	GWGU	Gulf of Alaska Shelf Edge 163W54N	Winter	100%	100%			67%	
Gulf of Alaska	GWGU	Kenai Fjords	Fall	67%	33%			33%	
Gulf of Alaska	GWGU	Kenai Fjords	Summer	67%				0%	
Gulf of Alaska	GWGU	Lower Cook Inlet 153W59N	Winter	67%				67%	
Gulf of Alaska	GWGU	Sanak Islands Marine	Summer	100%	100%			0%	
Gulf of Alaska	HADU	Cape Douglas to Amalik Bay	Fall	67%	100%				33%
Gulf of Alaska	KIMU	Kachemak Bay	Summer	67%				0%	
Gulf of Alaska	LESP	Cherni Island Complex Colonies	Summer	100%			33%	33%	
Gulf of Alaska	MAMU	Kachemak Bay	Summer	67%				0%	
Gulf of Alaska	NOFU	Semidi Islands Colonies	Summer	67%				0%	
Gulf of Alaska	PAAU	Castle Rock Colonies	Summer	67%			0%	33%	
Gulf of Alaska	PAAU	Koniuji-Shumagin Islands Colonies	Summer	100%	100%		0%	0%	
Gulf of Alaska	PAAU	Semidi Islands Colonies	Summer	67%			0%	0%	
Gulf of Alaska	PAAU	Shumagin Islands Marine	Summer	100%	100%		0%	0%	
Gulf of Alaska	PIGU	Kenai Fjords	Summer	67%	33%				33%
Gulf of Alaska	STEI	Chiniak Bay	Winter	100%					33%
Gulf of Alaska	STEI	Clam Gulch	Spring	67%					67%
Gulf of Alaska	STEI	Kamishak Bay	Spring	67%					67%
Gulf of Alaska	STEI	Sitkinak Strait	Spring	67%					67%
Gulf of Alaska	WWSC	Cape Douglas to Amalik Bay	Winter	67%					67%
Gulf of Alaska	WWSC	Eastern Kodiak Island Marine	Winter	67%	100%				33%
Gulf of Alaska	WWSC	Kachemak Bay	Winter	67%					33%
All models agree				86/138 (62%)	42/68 (62%)	12/19 (63%)	0/46 (0%)	6/107 (6%)	0/31 (0%)