

**Supporting Online Information for ‘Archaeological Data Provide Alternative Hypotheses’ (McKechnie et al.)**

**Table S3. Distance between archaeological sites dating within the last 2,500 years in British Columbia and documented spawning localities mapped by federal fisheries monitoring efforts (ca. 1937-2012, N = 113) and available data for Traditional and Local Ecological Knowledge (TEK/LEK) datasets (N = 18). Numbers in left column correspond with sites listed in Tables S1 and S2.**

No.	Region <sup>a</sup>	Sub-region <sup>b</sup>	Arch. Site No.	% NISP Herring <sup>c</sup>	Distance to Closest Spawning Locality (± 0.5km) <sup>c</sup>	DFO Monitoring Status for shoreline adjacent to study sites (as of 2012)	Distance (km) to closest monitored shoreline	DFO Monitoring Section see SOI reference (155) for section numbers and maps	Distance to TEK / LEK Spawning Locality (±0.5 km) <sup>d</sup>	TEK/ LEK Reference	Herring Spawning Intensity (highest within 2km of site) ref 155 <sup>e</sup>	Archaeological Abundance Category <sup>f</sup>	Similarity / Disjuncture between Arch data & cumulative spawn data <sup>i</sup>
1	SS	SVI	DcRu-75	42%	0.5	Monitored		Sec. 193 V. Harbour	NA		Medium	High	Similar
2	SS	SVI	DcRu-78	90%	0.5	Monitored		Sec. 193 V. Harbour	NA		Low	Vital	Disjuncture: Higher Arch
3	SS	SVI	DcRu-4	64%	1	Monitored		Sec. 193 V. Harbour	NA		Low	Major	Disjuncture: Higher Arch
4	SS	SVI	DcRt-16	79%		Un-monitored	2	Sec. 193 V. Harbour	NA		Un-monitored	Major	
5	SS	SVI	DcRt-10	77%		Un-monitored	5.8	Sec. 193 V. Harbour	NA		Un-monitored	Major	
6	SS	SVI	DcRu-71	81%		Un-monitored	7	Sec. 193 V. Harbour	NA		Un-monitored	Vital	
7	SS	SVI	DcRw-57	0.5%		Un-monitored	3.9	Sec. 202 Sooke Inlet	NA		Un-monitored	Low	
8	SS	SVI	DcRv-21	77%	1	Monitored		Sec. 202 Sooke Inlet	NA		minor	Major	Disjuncture: Higher Arch
9	SS	SVI	DdRu-81	75%		Un-monitored	6.4	Sec. 191-192 Saanich Pen.	NA		Un-monitored	Major	
10	SS	SVI	DdRu-4	62%		Un-monitored	1.5	Sec. 191-192 Saanich Pen.	NA		Un-monitored	Major	
11	SS	SVI	DeRu-1	86%	0.5	Monitored		Sec. 191-192 Saanich Pen.	NA		Minor	Vital	Disjuncture: Higher Arch
12	SS	SVI	DdRu-5	89%	0.5	Monitored		Sec. 191-192 Saanich Pen.	NA		Major	Vital	Similar
13	SS	SVI	DdRu-18	21%	0.5	Monitored		Sec. 191-192 Saanich Pen.	NA		Medium	Medium	Similar
14	SS	GI-BC	DdRt-6	93%	3.0	Monitored		Sec. 191-192 Saanich Pen.	NA		absent	Vital	Disjuncture: Higher Arch
15	SS	GI-BC	DeRu-44	90%	0.5	Monitored		Sec. 181 Swanson Ch.	NA		Low	Vital	Disjuncture: Higher Arch

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16	SS	GI-BC	DfRu-3	88%	0.5	Monitored		Sec. 181 Swanson Ch.	NA		Major	Vital	Similar
17	SS	GI-BC	DeRt-1	75%	0.5	Monitored		Sec. 182 Plumper Snd.	NA		Minor	Major	Disjuncture: Higher Arch
18	SS	GI-BC	DeRt-109	85%		Un-monitored	4.3	Sec. 182 Plumper Snd.	NA		Un-monitored	Vital	
19	SS	GI-BC	DgRu-3	70%		Un-monitored	1.6	Sec 173s S Yellow Pt.	NA		Un-monitored	Major	
20	SS	GI-BC	DgRv-4	96%	0.5	Monitored		Sec 173s S Yellow Pt.	NA		medium	Vital	Disjuncture: Higher Arch
21	SS	GI-BC	DgRv-1	86%	0.5	Monitored		Sec 173s S Yellow Pt.	NA		medium	Vital	Disjuncture: Higher Arch
22	SS	GI-BC	DgRv-2	93%	0.5	Monitored		Sec 173n N Yellow Pt.	NA		medium	Vital	Disjuncture: Higher Arch
24	SS	GI-BC	DgRw-78	39%	0.5	Monitored		Sec 173n N Yellow Pt.	NA		High	medium	Similar
25	SS	GI-BC	DgRw-73	89%	0.5	Monitored		Sec 173n N Yellow Pt.	NA		Major	Vital	Similar
26	SS	GI-BC	DgRw-32	55%	0.5	Monitored		Sec 173n N Yellow Pt.	NA		Major	High	Similar
27	SS	GI-BC	DgRw-4	86%	0.5	Monitored		Sec 173n N Yellow Pt.	NA		Major	Vital	Similar
28	SS	GI-BC	DgRw-204	72%	1.0	Monitored		Sec 173n N Yellow Pt.	NA		Major	Major	Similar
30	SS	EVI	DjSf-13	92%	0.5	Monitored		Sec. 142 Baynes Snd.	NA		Major	Vital	Similar
31	SS	EVI	DkSf-26	78%	4.0	Monitored		Sec. 142 Baynes Snd.	NA		Absent	Vital	Disjuncture: Higher Arch
32	SS	EVI	DkSf-40	89%	3.5	Monitored		Sec. 142 Baynes Snd.	NA		Absent	Vital	Disjuncture: Higher Arch
33	SS	EVI	DkSf-4	96%	0.5	Monitored		Sec. 142 Baynes Snd.	NA		Vital	Vital	Similar
34	SS	EVI	DkSf-19	88%	0.5	Monitored		Sec. 142 Baynes Snd.	NA		Vital	Vital	Similar
35	SS	EVI	DkSf-29	39%	0.5	Monitored		Sec. 142 Baynes Snd.	NA		Vital	medium	Similar

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36	SS	EVI	DiSc-26	86%	0.5	Monitored		Sec. 143 Qualicum	NA		Vital	Vital	Similar
38	SS	EVI	DhSb-3	97%	0.5	Monitored		Sec. 143 Qualicum	NA		Vital	Vital	Similar
39	SS	EVI	DhSb-11	97%	0.5	Monitored		Sec. 143 Qualicum	NA		Vital	Vital	Similar
40	SS	EVI	DhRx-16	97%	0.5	Monitored		Sec 142 Nanoose	NA		Vital	Vital	Similar
171	SS	EVI	DhRx-66	97%	0.5	Monitored		Sec 142 Nanoose	NA		Major	Vital	Similar
41	SS	EVI	DhRx-101	90%	0.5	Monitored		Sec 142 Nanoose	NA		Major	Vital	Similar
42	SS	EVI	DhRx-104	89%	0.5	Monitored		Sec 142 Nanoose	NA		Major	Vital	Similar
43	SS	EVI	DgRw-46	97%	0.5	Monitored		Sec 173n N Yellow Pt.	NA		Major	Vital	Similar
44	SS	EVI	DgRw-34	87%	0.5	Monitored		Sec 173n N Yellow Pt.	NA		Vital	Vital	Similar
45	SS	EVI	DeRv-68	64%	1.0	Monitored		Sec. 181 Swanson Ch.	NA		Minor	Major	Disjuncture: Higher Arch
46	SS	ESG	DISd-3	93%	0.5	Monitored		Sec. 152b S Powell R.	NA		Vital	Vital	Similar
47	SS	ESG	DISd-17	93%	0.5	Monitored		Sec. 152b S Powell R.	NA		medium	Vital	Disjuncture: Higher Arch
48	SS	ESG	DISe-10	9%	0.5	Monitored		Sec. 152b S Powell R.	NA		Vital	Low	Disjuncture: Lower Arch
49	SS	ESG	DISd-6	93%	0.5	Monitored		Sec. 152b S Powell R.	NA		Vital	Vital	Similar
50	SS	ESG	EaSe-76	37%	2.0	Monitored		Sec. 152a N Powell R.	NA		Low	medium	Similar
51	SS	ESG	EaSe-11	74%		Un-monitored	1	Sec. 152a N Powell R.	NA		Un-monitored	Major	
52	SS	ESG	EaSe-18	85%		Un-monitored	5.8	Sec. 152a N Powell R.	NA		Un-monitored	Vital	
53	SS	ESG	DjRw-1	97%	0.5	Monitored		Sec. 165 Sechelt	NA		Vital	Vital	Similar
54	SS	FD	DhRr-18	82%		Un-monitored	5.5	Sec. 280 Howe Snd.	NA		Un-monitored	Vital	
56	SS	FD	DhRr-6	30%		Un-	22	Sec. 280 Howe Snd.	NA		Un-	Medium	

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						monitored					monitored		
57	SS	FD	DhRr-18	57%		Un-monitored	22	Sec. 280 Howe Snd.	NA		Un-monitored	High	
58	SS	FD	DhRq-1	40%		Un-monitored	28	Sec. 280 Howe Snd.	NA		Un-monitored	High	
60	SS	FD	DgRs-14	32%	0.5	Monitored		Sec. 291& 293 Boundary Bay	NA		Vital	Medium	Disjuncture: Lower Arch
61	SS	FD	DgRs-2	<u>17%</u>	3.0	Monitored		Sec. 291& 293 Boundary Bay	NA		absent	Low	Disjuncture: Higher Arch
62	SS	FD	DgRs-1	<u>9%</u>	0.5	Monitored		Sec. 291& 293 Boundary Bay	NA		Vital	Low	Disjuncture: Lower Arch
63	SS	FD	DgRr-1	<u>2%</u>	0.5	Monitored		Sec. 291& 293 Boundary Bay	NA		minor	Low	Similar
79	WC VI	WCVI	EdSv-4	39%		Un-monitored	6.6	Sec. 271 Quatsino Snd.	NA		Un-monitored	Medium	
80	WC VI	WCVI	DiSo-9	48%	0.5	Monitored		Sec. 242 Hesquiat Hrbr.	NA		Major	High	Similar
81	WC VI	WCVI	DgSI-67	57%		Un-monitored	2.0	Sec 245. Vargas Is.	NA		Un-monitored	High	
82	WC VI	WCVI	DfSj-40	79%	0.5	Monitored		Sec 232 W Barkley Snd.	NA		High	Major	Similar
84	WC VI	BS	DfSj-57	84%	0.5	Monitored		Sec 232 W Barkley Snd.	NA		High	Vital	Disjuncture: Higher Arch
85	WC VI	BS	DfSi-16+17	<u>52%</u>	0.5	Monitored		Sec 232 W Barkley Snd.	NA		Major	High	Similar
86	WC VI	BS	DfSi-26	58%	0.5	Monitored		Sec 232 W Barkley Snd.	NA		Major	High	Similar
87	WC VI	BS	129T	61%	2.0	Monitored		Sec 232 W Barkley Snd.	NA		High	Major	Similar
88	WC VI	BS	83T	47%	2.0	Monitored		Sec 232 W Barkley Snd.	NA		High	High	Similar
89	WC VI	BS	82T	39%	2.0	Monitored		Sec 232 W Barkley Snd.	NA		Major	Medium	Disjuncture: Lower Arch
90	WC VI	BS	306T	72%	1.5	Monitored		Sec 232 W Barkley Snd.	NA		High	Major	Similar
91	WC	BS	304T	41%	3.5	Monitored		Sec 232 W Barkley	NA		absent	High	Disjuncture:

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	VI							Snd.					Higher Arch
92	WC VI	BS	206T	41%	2.5	Monitored		Sec 232 W Barkley Snd.	NA		Absent	High	Disjuncture: Higher Arch
93	WC VI	BS	DfSh-19 (72T)	85%	0.5	Monitored		Sec 232 W Barkley Snd.	NA		High	Vital	Disjuncture: Higher Arch
94	WC VI	BS	DeSh-1	48%	1.0	Monitored		Sec 231 Trevor Chnl.	NA		Medium	High	Similar
95	WC VI	BS	DeSh-2	18%	1.0	Monitored		Sec 231 Trevor Chnl.	NA		Medium	Low	Similar
96	WC VI	BS	DfSh-7	66%		Un-monitored	3.6	Sec 231 Trevor Chnl.	NA		Un-monitored	Major	
97	WC VI	WCVI	DeSf-6	11%		Un-monitored	27.3	No records	NA		Un-monitored	Low	
99	CC	Namu	EISx-3	48%		Un-monitored	5.9	Sec. 086 Fitz Hugh Snd.	0.5	Hessing-Lewis et al. 2011 (156)	Un-monitored	High	
104	CC	Namu	EISx-1	47%	0.5	Monitored		Sec. 086 Fitz Hugh Snd.	0.5	Hessing-Lewis et al. 2011 (156)	Low	High	Disjuncture: Higher Arch
105	CC	Namu	EkSx-12	9.9%	2.0	Monitored		Sec. 085 Kwakshua Ch.	2.5	Hessing-Lewis et al. 2011 (156)	Minor	Low	Similar
106	CC	Namu	EITa-3	12%	0.5	Monitored		Sec.076 Kildidt Snd.	0.5	Hessing-Lewis et al. 2011 (156)	Medium	Low	Similar
107	CC	Namu	EITb-1	86%	0.5	Monitored		Sec.076 Kildidt Snd.	0.5	Hessing-Lewis et al. 2011 (156)	High	Vital	Disjuncture: Higher Arch
108	CC	Namu	EITb-2	38%	0.5	Monitored		Sec.076 Kildidt Snd.	0.5	Hessing-Lewis et al. 2011 (156)	Medium	Medium	Similar
109	CC	Rinlt	EkSt-1	29%		Un-monitored	4.0	Sec. 093 Rivers Intl Head	NA		Un-monitored	Medium	
110	CC	Rinlt	EjSw-1	47%	2.0	Monitored		Sec. 092 Rivers Intl.	NA		Minor	High	Disjuncture: Higher Arch
111	CC	Rinlt	EjSv-1	35%	4.0	Monitored		Sec. 092 Rivers Intl.	NA		Absent	Medium	Disjuncture: Higher Arch

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112	CC	Rinlt	EjSv-2	56%		Un-monitored	0.9	Sec. 092 Rivers Intl.	NA		Un-monitored	High	
113	CC	Rinlt	EjSv-3	40%		Un-monitored	1.8	Sec. 092 Rivers Intl.	NA		Un-monitored	High	
114	CC	Rinlt	EjSv-4	56%		Un-monitored	1.3	Sec. 093 Rivers Intl Head	NA		Un-monitored	High	
115	CC	Rinlt	EjSv-5	66%	6.0	Monitored		Sec. 093 Rivers Intl Head	NA		Absent	Major	Disjuncture: Higher Arch
116	CC	Rinlt	EjSv-8	48%		Un-monitored	4.5	Sec. 092 Rivers Intl.	NA		Un-monitored	High	
117	CC	Rinlt	EjSv-9	42%		Un-monitored	4.6	Sec. 092 Rivers Intl.	NA		Un-monitored	High	
118	CC	Rinlt	EjSv-10	52%		Un-monitored	4.7	Sec. 092 Rivers Intl.	NA		Un-monitored	High	
119	CC	Rinlt	EjSv-11	42%		Un-monitored	5.2	Sec. 092 Rivers Intl.	NA		Un-monitored	High	
120	HG	S. HG	FaTt-9	16%	2.2	Monitored		Sec. 006 Louscoone Intl.	4.4	Windbourne et al. 2011:67 (ref:157)	Absent	Low	Disjuncture: Higher Arch
122	HG	S. HG	2008T	2%		Un-monitored	9.0	Sec. 006 Louscoone Intl.	13.2	Windbourne et al. 2011:67 (ref:157)	Un-monitored	Low	
123	HG	S. HG	699T	28%		Un-monitored	15.9	Sec. 006 Louscoone Intl.	11	Windbourne et al. 2011:67 (ref:157)	Un-monitored	Medium	
124	HG	S. HG	740T	13%		Un-monitored	1.7	Sec. 025 Skincuttle Intl.	0.5	Windbourne et al. 2011:67 (ref:157)	Un-monitored	Low	
125	HG	S. HG	717T	43%	0.5	Monitored		Sec. 025 Skincuttle Intl.	0.5	Windbourne et al. 2011:67 (ref:157)	Major	High	Similar
126	HG	S. HG	924T	63%	0.5	Monitored		Sec. 021s S. Juan Perez Snd.	0.5	Windbourne et al.	Major	Major	Similar

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										2011:67 (ref:157)			
127	HG	S. HG	1370T	24%	0.5	Monitored		Sec. 021s S. Juan Perez Snd.	0.5	Windbourne et al. 2011:67 (ref:157)	Major	Medium	Disjuncture: Lower Arch
128	HG	S. HG	781T	80%	2.5	Monitored		Sec. 021s S. Juan Perez Snd.	0.5	Windbourne et al. 2011:67 (ref:157)	Absent	Vital	Disjuncture: Higher Arch
129	HG	S. HG	922T	2%		Un-monitored	7.5	Sec. 021n N Juan Perez Snd.	7.5	Windbourne et al. 2011:67 (ref:157)	Un-monitored	Low	
131	HG	S. HG	785T	3%		Un-monitored	10.4	Sec. 024 Laskeek Bay	4.5	Windbourne et al. 2011:67 (ref:157)	Un-monitored	Low	
132	HG	S. HG	1134T	0.0%		Un-monitored	3.1	Sec. 024 Laskeek Bay	3	Windbourne et al. 2011:67 (ref:157)	Un-monitored	Absent	
135	HG	N. HG	GaUa-18	6%		Un-monitored	26	Sec. 011 Masset Inlt.	23	Windbourne et al. 2011:67 (ref:157)	Un-monitored	Low	
153	NC	PRH	GbTo-24	4%	0.5	Monitored		Sec. 042 P. Rupert	NA		Vital	Low	Disjuncture: Lower Arch
146	NC	PRH	GcTo-6	10%	0.5	Monitored		Sec. 042 P. Rupert	NA		Medium	Low	Similar
147	NC	PRH	GbTo-77	24%	0.5	Monitored		Sec. 042 P. Rupert	NA		Major	Medium	Disjuncture: Lower Arch
148	NC	PRH	GbTo-28	21%	2.0	Monitored		Sec. 042 P. Rupert	NA		High	Medium	Similar
149	NC	PRH	GbTo-46	11%	2.5	Monitored		Sec. 042 P. Rupert	NA		Absent	Low	Disjuncture: Higher Arch
150	NC	PRH	GbTo-31	3%	0.5	Monitored		Sec. 042 P. Rupert	NA		High	Low	Disjuncture: Lower Arch

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151	NC	PRH	GbTo-13	16%	1.5	Monitored		Sec. 042 P. Rupert	NA		High	Low	Disjuncture: Lower Arch

**a – Regions:** SS = Salish Sea, Including Strait of Georgia, WCVI = Western Vancouver Island; CC = Central British Columbia Coast; HG = Haida Gwaii; NC = Northern British Columbia Coast.

**b – Sub-Regions:** GI-BC = BC Gulf Islands; SVI = Southern Vancouver Island; EVI = Eastern Vancouver Island; ESG = Eastern Strait of Georgia; FD = Fraser Delta; BS = Barkley Sound; WCVI = Western Vancouver Island; NVI = Northern Vancouver Island; Namu = Namu Area; Rinlt = Rivers Inlet Area; S. HG = Southern Haida Gwaii; N. HG = Northern Haida Gwaii; PRH = Prince Rupert Harbour.

**c – % Herring compared to other fish bones** based on Number of Identified Specimens (NISP). Underlined values indicate sub-assemblages dating to within the last 2500 years that differ from the combined assemblages reported in Table S1.

**d – Distance estimated using georectified map** of cumulative spawning location and distance by water in Google Earth. (*see* materials and methods).

**e – Cumulative herring spawning intensity categories** (see ref. 155): Vital = highest 5%; Major = next 10%; High = next 15%; Medium = next 20%; Low = next 25%; Minor = next 25%; Absent = no documented spawning records within 2 km of archaeological site; Unmonitored = shoreline adjacent to archaeological site area not monitored for herring spawning activity.

**f – Archaeological abundance categories** (in relation to footnote ‘f’ above); Vital = 100-80% NISP; Major = 80-60% NISP; High = 60-40% NISP; Medium = 40-20% NISP; Low = 20-0.1% NISP; Absent = absent from archaeological assemblage.

**j – Similarity between cumulative herring spawning records and archaeological records is inferred** if the categories are within one rank. A disjuncture is inferred if the categories differ by more than one rank based on categories defined in footnotes ‘e’ and ‘f.’