

APPENDIX 1—Catalogue of pakicetid postcranial specimens from H-GSP Locality 62 used in this analysis.

H-GSP number	Genus	Species	Description ¹
30117	<i>Pakicetus</i>	attocki	vertebra, caudal 3
30118	<i>Pakicetus</i>	attocki	femur, distal metaphysis
30121	<i>Ichthyolestes</i>	pinfoli	vertebra, thoracic
30122	<i>Pakicetus</i>	attocki	vertebra, thoracic 2
30124	<i>Pakicetus</i>	attocki	humerus, shaft fragment
30126	<i>Ichthyolestes</i>	pinfoli	humerus, juvenile
30127	<i>Nalacetus</i>	ratimitus	vertebra, caudal 18
30128*	<i>Ichthyolestes</i>	pinfoli	humerus, juvenile
30131	large pakicetid	unknown	rib, anterior
30132	<i>Ichthyolestes</i>	pinfoli	femur, proximal
30133	<i>Pakicetus</i>	attocki	humerus, shaft
30135	<i>Ichthyolestes</i>	pinfoli	vertebra, lumbar 1
30141	<i>Nalacetus</i>	ratimitus	vertebra, caudal 1
30143	<i>Ichthyolestes</i>	pinfoli	femur, distal epiphysis
30144	<i>Ichthyolestes</i>	pinfoli	vertebra, thoracic terminal
30145	<i>Pakicetus</i>	attocki	vertebra, caudal
30147	<i>Pakicetus</i>	attocki	femur, distal metaphysis
30148	<i>Nalacetus</i>	ratimitus	humerus, proximal
30153	<i>Pakicetus</i>	attocki	astragalus
30154	<i>Ichthyolestes</i>	pinfoli	atlas, fragment
30155	<i>Ichthyolestes</i>	pinfoli	vertebra, thoracic terminal
30156	<i>Ichthyolestes</i>	pinfoli	femur, head
30157	large pakicetid	unknown	phalanx, pedal II.1
30158	<i>Ichthyolestes</i>	pinfoli	tibia, shaft fragment
30164	<i>Pakicetus</i>	attocki	femur, distal metaphysis
30169	pakicetid	unknown	pisiform
30170	<i>Pakicetus</i>	attocki	calcaneus, lateral process
30174	<i>Nalacetus</i>	ratimitus	cuboid
30175	<i>Nalacetus</i>	ratimitus	humerus, juvenile
30176	<i>Pakicetus</i>	attocki	calcaneus, distal
30177	pakicetid	unknown	rib
30178	large pakicetid	unknown	ecto-mesocuneiform
30179	<i>Pakicetus</i>	attocki	vertebra, spinous process
30190	<i>Ichthyolestes</i>	pinfoli	radius, proximal
30192	<i>Ichthyolestes</i>	pinfoli	humerus
30197	pakicetid	unknown	rib
30199	<i>Pakicetus</i>	attocki	navicular
30200	<i>Pakicetus</i>	attocki	vertebra, cervical 7
30202	large pakicetid	unknown	phalanx, manual V.1
30209	<i>Ichthyolestes</i>	pinfoli	vertebra, caudal 15
30212	<i>Ichthyolestes</i>	pinfoli	vertebra, caudal 2
30213	<i>Pakicetus</i>	attocki	innominate, partial
30217	<i>Ichthyolestes</i>	pinfoli	ulna
30222	<i>Nalacetus</i>	ratimitus	humerus
30231	<i>Ichthyolestes</i>	pinfoli	femur, distal metaphysis
30237	<i>Nalacetus</i>	ratimitus	vertebra, lumbar 5
30246	<i>Pakicetus</i>	attocki	calcaneus
30249	<i>Pakicetus</i>	attocki	tibia, juvenile
30251	<i>Pakicetus</i>	attocki	sacrum
30278	<i>Pakicetus</i>	attocki	innominate, partial
30279	<i>Nalacetus</i>	ratimitus	ilium and acetabulum
30280	pakicetid	unknown	acetabulum
30286*	<i>Nalacetus</i>	ratimitus	ulna, proximal
30288	pakicetid	unknown	innominate, partial
30294	large pakicetid	unknown	phalanx, pedal V.1
30297	pakicetid	unknown	innominate, partial
30298	<i>Ichthyolestes</i>	pinfoli	vertebra, caudal 20
30299	pakicetid	unknown	sternbra
30300	<i>Nalacetus</i>	ratimitus	ulna, proximal fragment
30301	<i>Pakicetus</i>	attocki	metapodial, distal
30302	<i>Pakicetus</i>	attocki	ilium
30303	<i>Pakicetus</i>	attocki	Mc IV
30304	<i>Nalacetus</i>	ratimitus	innominate, ilium, and ischium
30315	<i>Pakicetus</i>	attocki	tibia, proximal and shaft
30320	<i>Ichthyolestes</i>	pinfoli	vertebra, caudal 2
30323	<i>Pakicetus</i>	attocki	humerus, distal
30324	<i>Pakicetus</i>	attocki	radius, distal
30326	<i>Ichthyolestes</i>	pinfoli	Mc III
30327	<i>Ichthyolestes</i>	pinfoli	tibia, proximal juvenile
30328	pakicetid	unknown	rib
30330	large pakicetid	unknown	rib
30331	pakicetid	unknown	acetabulum
30332	large pakicetid	unknown	rib
30333	<i>Pakicetus</i>	attocki	femur, proximal
30334	<i>Pakicetus</i>	attocki	humerus, distal
30338	<i>Pakicetus</i>	attocki	tibia, juvenile
30340	<i>Pakicetus</i>	attocki	femur, trochanter

APPENDIX 1—Continued.

H-GSP number	Genus	Species	Description ¹
30343	pakicetid	unknown	vertebra, caudal 15
30344	<i>Pakicetus</i>	attocki	vertebra, caudal 14
30345	<i>Pakicetus</i>	attocki	femur, proximal
30348	pakicetid	unknown	rib, proximal fragment
30353	<i>Pakicetus</i>	attocki	vertebra, thoracic 13
30357	<i>Pakicetus</i>	attocki	tibia
30365	<i>Ichthyolestes</i>	pinfoli	innominate, partial
30371	<i>Ichthyolestes</i>	pinfoli	tibia, proximal juvenile
30373	<i>Ichthyolestes</i>	pinfoli	Mc, proximal half
30377	<i>Pakicetus</i>	attocki	tibia, proximal juvenile
30378	<i>Ichthyolestes</i>	pinfoli	acetabulum, juvenile
30381	<i>Ichthyolestes</i>	pinfoli	acetabulum, juvenile
30381	<i>Ichthyolestes</i>	pinfoli	innominate, acetabulum, ischium
30382	large pakicetid	unknown	fibula, distal
30383	pakicetid	unknown	rib
30384	large pakicetid	unknown	ulna, distal shaft
30385	pakicetid	unknown	femur, distal
30390	<i>Pakicetus</i>	attocki	innominate, acetabulum, ischium
30395*	<i>Nalacetus</i>	ratimitus	innominate
30405	<i>Nalacetus</i>	ratimitus	Mt III
30413	<i>Nalacetus</i>	ratimitus	ulna, proximal fragment
30414	<i>Pakicetus</i>	attocki	tibia, proximal juvenile
30417	<i>Nalacetus</i>	ratimitus	Mt IV
30420	<i>Ichthyolestes</i>	pinfoli	femur, juvenile
30421	large pakicetid	unknown	sternebra
30422	<i>Nalacetus</i>	ratimitus	Mt III
30427	<i>Pakicetus</i>	attocki	innominate, ilium, and pubis
30429	<i>Nalacetus</i>	ratimitus	innominate, acetabulum, and ischium juvenile
30435	<i>Nalacetus</i>	ratimitus	Mc III
30438	<i>Nalacetus</i>	ratimitus	ulna, no distal epiphysis
30440	<i>Nalacetus</i>	ratimitus	tibia, distal
30441	<i>Nalacetus</i>	ratimitus	tibia, proximal
30444	<i>Nalacetus</i>	ratimitus	astragalus
91008	<i>Nalacetus</i>	ratimitus	femur, distal
91020	<i>Pakicetus</i>	attocki	vertebra, thoracic 4
91038	pakicetid	unknown	phalanx, manual IV.1
91043	<i>Pakicetus</i>	attocki	vertebra, cervical 6
91049	<i>Pakicetus</i>	attocki	vertebra, thoracic 3
92004	<i>Pakicetus</i>	attocki	axis
92013	<i>Ichthyolestes</i>	pinfoli	phalanx, manual I.1
92014	<i>Nalacetus</i>	ratimitus	humerus, distal
92026	<i>Nalacetus</i>	ratimitus	phalanx, pedal III.2
92027	pakicetid	unknown	scapula, juvenile
92038	<i>Pakicetus</i>	attocki	femur, distal epiphysis
92041	<i>Pakicetus</i>	attocki	Mc IV
92042*	<i>Nalacetus</i>	ratimitus	humerus, juvenile
92053	<i>Nalacetus</i>	ratimitus	vertebra, caudal 13
92060	pakicetid	unknown	rib
92063	<i>Ichthyolestes</i>	pinfoli	calcaneus
92071	<i>Nalacetus</i>	ratimitus	acetabulum
92079	<i>Nalacetus</i>	ratimitus	vertebra, caudal 5
92080	<i>Pakicetus</i>	attocki	femur, distal epiphysis
92082*	<i>Ichthyolestes</i>	pinfoli	vertebra, cervical 5
92095	<i>Ichthyolestes</i>	pinfoli	humerus, distal
92104	<i>Pakicetus</i>	attocki	phalanx, pedal V.1
92105	<i>Pakicetus</i>	attocki	femur, distal epiphysis
92131	<i>Nalacetus</i>	ratimitus	femur, head
92146	<i>Pakicetus</i>	attocki	Mt III, distal
96021	<i>Nalacetus</i>	ratimitus	atlas
96022	<i>Pakicetus</i>	attocki	ilium
96023	pakicetid	unknown	sacrum, S2
96024	<i>Nalacetus</i>	ratimitus	vertebra, lumbar 7 or 8
96054	<i>Pakicetus</i>	attocki	femur, distal epiphysis
96056	<i>Pakicetus</i>	attocki	femur, proximal
96057*	<i>Pakicetus</i>	attocki	ulna, proximal
96059	<i>Pakicetus</i>	attocki	femur, distal metaphysis
96061	large pakicetid	unknown	phalanx, manual I.1
96162	<i>Pakicetus</i>	attocki	tibia, proximal
96177	<i>Pakicetus</i>	attocki	phalanx, manual II.2
96182	pakicetid	unknown	rib head
96187	<i>Pakicetus</i>	attocki	vertebra, thoracic 10
96198	<i>Ichthyolestes</i>	pinfoli	rib
96198	<i>Ichthyolestes</i>	pinfoli	terminal rib
96200	<i>Ichthyolestes</i>	pinfoli	humerus, distal metaphysis
96218*	<i>Pakicetus</i>	attocki	vertebra, cervical 4
96223	<i>Ichthyolestes</i>	pinfoli	Mt V
96227	<i>Ichthyolestes</i>	pinfoli	humerus, distal
96228	<i>Ichthyolestes</i>	pinfoli	radius, proximal

APPENDIX 1—Continued.

H-GSP number	Genus	Species	Description ¹
96246	<i>Ichthyolestes</i>	pinfoli	humerus, distal
96247	<i>Ichthyolestes</i>	pinfoli	humerus, distal
96248	<i>Nalacetus</i>	ratimitus	vertebra, thoracic 10
96249	<i>Pakicetus</i>	attocki	vertebra, thoracic terminal
96250	<i>Pakicetus</i>	attocki	femur, distal metaphysis
96251	<i>Ichthyolestes</i>	pinfoli	vertebra, cervical 3
96257	<i>Nalacetus</i>	ratimitus	vertebra, lumbar 3
96259	<i>Pakicetus</i>	attocki	vertebra, caudal 9
96261	<i>Ichthyolestes</i>	pinfoli	radius, juvenile
96262	<i>Ichthyolestes</i>	pinfoli	phalanx, pedal II.1
96264	<i>Ichthyolestes</i>	pinfoli	humerus, distal
96266	<i>Pakicetus</i>	attocki	Mt III, distal
96267	<i>Nalacetus</i>	ratimitus	sacrum, juvenile S2–S4
96282	<i>Nalacetus</i>	ratimitus	innominate, acetabulum, and ilium
96284	<i>Pakicetus</i>	attocki	vertebra, lumbar 3
96287	<i>Ichthyolestes</i>	pinfoli	sacrum, centrum
96288	<i>Pakicetus</i>	attocki	tibia, juvenile fragments
96290	<i>Ichthyolestes</i>	pinfoli	acetabulum, juvenile
96291	<i>Pakicetus</i>	attocki	vertebra, lumbar centrum
96293	<i>Pakicetus</i>	attocki	Mt III, distal
96299	<i>Ichthyolestes</i>	pinfoli	Mt III, juvenile
96301	<i>Pakicetus</i>	attocki	phalanx, manual IV.1
96302	<i>Pakicetus</i>	attocki	calcaneus
96303	<i>Nalacetus</i>	ratimitus	sacrum, distal S2–S4
96305*	<i>Pakicetus</i>	attocki	vertebra, caudal 11
96306	<i>Ichthyolestes</i>	pinfoli	vertebra, lumbar
96315	<i>Ichthyolestes</i>	pinfoli	Mc 11
96317	<i>Ichthyolestes</i>	pinfoli	vertebra, lumbar 2 or 3
96321	<i>Ichthyolestes</i>	pinfoli	axis
96345	<i>Ichthyolestes</i>	pinfoli	tibia, proximal juvenile
96346	<i>Nalacetus</i>	ratimitus	Mt III
96347	<i>Ichthyolestes</i>	pinfoli	vertebra, caudal 1
96348	<i>Ichthyolestes</i>	pinfoli	vertebra, caudal 4
96355	large pakicetid	unknown	rib, distal fragment
96358	<i>Nalacetus</i>	ratimitus	astragalus
96359*	<i>Pakicetus</i>	attocki	calcaneus
96361	<i>Ichthyolestes</i>	pinfoli	humerus
96366	<i>Nalacetus</i>	ratimitus	vertebra, caudal 16
96372	<i>Pakicetus</i>	attocki	femur, distal epiphysis
96373	<i>Pakicetus</i>	attocki	Mc III, distal
96379	<i>Ichthyolestes</i>	pinfoli	vertebra, caudal 5
96380	<i>Pakicetus</i>	attocki	axis, no arch
96381	<i>Ichthyolestes</i>	pinfoli	sacrum, S1
96382	<i>Pakicetus</i>	attocki	vertebra, cervical 7
96383	<i>Nalacetus</i>	ratimitus	vertebra, cervical 3
96409	<i>Ichthyolestes</i>	pinfoli	vertebra, thoracic terminal
96410	<i>Ichthyolestes</i>	pinfoli	vertebra, thoracic 3
96411	<i>Pakicetus</i>	attocki	vertebra, caudal 1 or 2
96412	<i>Pakicetus</i>	attocki	vertebra, caudal 4
96413	<i>Nalacetus</i>	ratimitus	vertebra, caudal 2
96416	pakicetid	unknown	sternebra
96419	<i>Ichthyolestes</i>	pinfoli	vertebra, thoracic
96420*	<i>Nalacetus</i>	ratimitus	calcaneus, distal
96422	<i>Pakicetus</i>	attocki	vertebra, caudal 13
96423	<i>Pakicetus</i>	attocki	vertebra, cervical 3
96424	<i>Nalacetus</i>	ratimitus	Mc IV
96426	<i>Nalacetus</i>	ratimitus	vertebra, lumbar 2 or 3
96427	<i>Pakicetus</i>	attocki	femur, greater trochanter
96429	<i>Ichthyolestes</i>	pinfoli	vertebra, lumbar terminal
96433	<i>Pakicetus</i>	attocki	vertebra, caudal 15
96435	<i>Pakicetus</i>	attocki	vertebra, caudal 5
96436	large pakicetid	unknown	rib, midthoracic
96448	<i>Pakicetus</i>	attocki	femur, head
96507	large pakicetid	unknown	scapula
96509	<i>Pakicetus</i>	attocki	vertebra, thoracic 11
96512	<i>Ichthyolestes</i>	pinfoli	ulna
96516*	<i>Nalacetus</i>	ratimitus	vertebra, thoracic 6
96517	<i>Nalacetus</i>	ratimitus	Mt II, juvenile
96518	<i>Ichthyolestes</i>	pinfoli	sacrum, centrum
96519	<i>Nalacetus</i>	ratimitus	phalanx, pedal III.1
96526	<i>Ichthyolestes</i>	pinfoli	vertebra, caudal 8
96528	<i>Pakicetus</i>	attocki	vertebra, spinous process
96529	<i>Ichthyolestes</i>	pinfoli	humerus, juvenile
96532	large pakicetid	unknown	scapula
96534	<i>Nalacetus</i>	ratimitus	humerus, distal
96537	<i>Ichthyolestes</i>	pinfoli	atlas, fragment
96542	<i>Ichthyolestes</i>	pinfoli	vertebra, caudal 4
96545	<i>Pakicetus</i>	attocki	vertebra, caudal

APPENDIX 1—Continued.

H-GSP number	Genus	Species	Description ¹
96546	<i>Pakicetus</i>	attocki	vertebra, thoracic 4
96555	<i>Pakicetus</i>	attocki	vertebra, caudal 2
96556	<i>Nalacetus</i>	ratimitus	ulna, proximal
96557	<i>Pakicetus</i>	attocki	vertebra, caudal 6
96558	<i>Nalacetus</i>	ratimitus	vertebra, lumbar terminal
96561	<i>Ichthyolestes</i>	pinfoli	vertebra, caudal 7
96564*	<i>Nalacetus</i>	ratimitus	vertebra, caudal 11
96566	<i>Pakicetus</i>	attocki	atlas
96569	<i>Pakicetus</i>	attocki	vertebra, fragment
96570	pakicetid	unknown	sesamoid
96572	large pakicetid	unknown	femur, distal metaphysis
96573	<i>Ichthyolestes</i>	pinfoli	vertebra, thoracic 1 or 2
96575	<i>Pakicetus</i>	attocki	vertebra, cervical 7
96578	<i>Pakicetus</i>	attocki	vertebra, lumbar arch
96579	<i>Ichthyolestes</i>	pinfoli	humerus, juvenile proximal
96581	large pakicetid	unknown	unciform
96582	<i>Ichthyolestes</i>	pinfoli	vertebra, cervical fragment
96583	<i>Ichthyolestes</i>	pinfoli	phalanx, pedal II.2
96585	pakicetid	unknown	rib fragment
96588	<i>Pakicetus</i>	attocki	vertebra, lumbar arch
96590	<i>Pakicetus</i>	attocki	Mt IV, proximal fragment
96590	<i>Pakicetus</i>	attocki	phalanx, pedal III.1
96592	<i>Pakicetus</i>	attocki	phalanx, manual II.1
96593	large pakicetid	unknown	phalanx, pedal IV.1
96594	<i>Ichthyolestes</i>	pinfoli	phalanx, manual V.2
96595	<i>Ichthyolestes</i>	pinfoli	radius, juvenile
96596	<i>Ichthyolestes</i>	pinfoli	ulna, juvenile
96597	<i>Ichthyolestes</i>	pinfoli	tibia, proximal juvenile
96598	<i>Ichthyolestes</i>	pinfoli	vertebra, cervical 4
96599	<i>Ichthyolestes</i>	pinfoli	vertebra, caudal 3
96602	pakicetid	unknown	rib
96609	<i>Ichthyolestes</i>	pinfoli	rib
96610	<i>Ichthyolestes</i>	pinfoli	humerus, distal
96612	<i>Nalacetus</i>	ratimitus	calcaneus
96613	<i>Nalacetus</i>	ratimitus	axis
96614	pakicetid	unknown	sacrum, centrum
96615	pakicetid	unknown	scapula fragment
96618	<i>Ichthyolestes</i>	pinfoli	femur, trochanter
96619	pakicetid	unknown	Mc head
96620	<i>Ichthyolestes</i>	pinfoli	phalanx, manual V.1
96629	<i>Pakicetus</i>	attocki	calcaneus
97001	<i>Ichthyolestes</i>	pinfoli	astragalus
97002	<i>Ichthyolestes</i>	pinfoli	vertebra, caudal 3
98121	<i>Nalacetus</i>	ratimitus	vertebra, caudal 4
98122	<i>Nalacetus</i>	ratimitus	tibia, proximal
98124	<i>Nalacetus</i>	ratimitus	femur, proximal juvenile
98126	<i>Nalacetus</i>	ratimitus	axis
98127	<i>Pakicetus</i>	attocki	calcaneus
98129	<i>Ichthyolestes</i>	pinfoli	tibia, distal
98132	<i>Nalacetus</i>	ratimitus	vertebra, lumbar 1
98135	pakicetid	attocki	tibia, proximal
98135	<i>Pakicetus</i>	attocki	tibia, proximal juvenile
98136	<i>Ichthyolestes</i>	pinfoli	Mt, distal
98137	<i>Ichthyolestes</i>	pinfoli	ilium and acetabulum
98148*	<i>Pakicetus</i>	attocki	astragalus
98149*	<i>Ichthyolestes</i>	pinfoli	astragalus
98150	<i>Ichthyolestes</i>	pinfoli	vertebra, caudal 1
98151	large pakicetid	unknown	phalanx, pedal IV.1
98152	pakicetid	unknown	rib
98153	<i>Pakicetus</i>	attocki	axis
98154*	<i>Pakicetus</i>	attocki	vertebra, lumbar terminal
98187	<i>Pakicetus</i>	attocki	Mc III, juvenile
98189	<i>Ichthyolestes</i>	pinfoli	tibia, juvenile
98191	<i>Nalacetus</i>	ratimitus	radius, distal
98192	<i>Pakicetus</i>	attocki	humerus, juvenile proximal
98193	<i>Nalacetus</i>	ratimitus	humerus, distal
98194	<i>Nalacetus</i>	ratimitus	Mc, distal
98195	<i>Pakicetus</i>	attocki	vertebra, caudal 14
98196	<i>Pakicetus</i>	attocki	vertebra, caudal 4
98197	<i>Pakicetus</i>	attocki	vertebra, caudal 17
98198	<i>Ichthyolestes</i>	pinfoli	vertebra, lumbar 2 or 3
98200	pakicetid	unknown	humerus, distal metaphysis
98201	<i>Pakicetus</i>	attocki	femur, head
98202	<i>Ichthyolestes</i>	pinfoli	vertebra, cervical 3
98205	<i>Ichthyolestes</i>	pinfoli	rib
98206	<i>Pakicetus</i>	attocki	axis
98207	pakicetid	unknown	rib

* published in Thewissen et al., 2001b.

¹ positional attribution for vertebrae and phalanges based upon comparison with other fossil taxa and not upon articulation in situ.