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<html><head></head><body><pre style="word-wrap: break-word; white-space: pre-wrap;"># Barlow et al. Supplementary Data
5: f-hat estimates of cave bear ancestry in brown bears relative polar bears, and among polar bears.
# In these tests: P1 is a polar bear, P2 is the measured brown bear, and P3 and P4 are cave bears.
# fhat values, weighted block jackknife standard error, and Zscore are presented in adjacent columns with prefix "F",
"SE" and "Z", respectively.
# Outgroup is U. thibetanus

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P1	P2	P3	P4	Fthibetanus	SEthibetanus	Zthibetanus
# Cave Bear Ancestry in the Late Pleistocene Austrian Brown Bear						
NB	Uap	GS136	E-1838	2.7111%	0.003082	8.797043
SB	Uap	GS136	E-1838	2.6973%	0.003185	8.468420
WH2	Uap	GS136	E-1838	2.4681%	0.003329	7.413220
NB	Uap	GS136	WK01	2.4150%	0.003159	7.644208
SB	Uap	GS136	WK01	2.4033%	0.003200	7.510565
WH2	Uap	GS136	WK01	2.2166%	0.003280	6.758645
NB	Uap	E-1838	GS136	2.4084%	0.003107	7.751993
SB	Uap	E-1838	GS136	2.3325%	0.003189	7.314644
WH2	Uap	E-1838	GS136	2.1145%	0.003300	6.406865
NB	Uap	E-1838	HV74	3.8986%	0.004331	9.002326
SB	Uap	E-1838	HV74	3.7941%	0.004390	8.641828
WH2	Uap	E-1838	HV74	3.8629%	0.004506	8.571928
NB	Uap	E-1838	WK01	2.3624%	0.002748	8.597842
SB	Uap	E-1838	WK01	2.3289%	0.002765	8.423275
WH2	Uap	E-1838	WK01	2.3249%	0.002824	8.232916
NB	Uap	WK01	GS136	2.2420%	0.003149	7.119644
SB	Uap	WK01	GS136	2.2227%	0.003223	6.897050
WH2	Uap	WK01	GS136	2.0052%	0.003271	6.130776
NB	Uap	WK01	E-1838	2.3934%	0.002742	8.730345
SB	Uap	WK01	E-1838	2.4102%	0.002762	8.724859
WH2	Uap	WK01	E-1838	2.3346%	0.002824	8.268411

# Cave Bear Ancestry in Contemporary Eurasian Brown Bears						
NB	235	GS136	E-1838	1.0667%	0.003016	3.536986
SB	235	GS136	E-1838	1.0471%	0.003036	3.449033
WH2	235	GS136	E-1838	0.9276%	0.003103	2.989963
NB	235	GS136	WK01	1.0613%	0.003051	3.478388
SB	235	GS136	WK01	1.1124%	0.003069	3.624946
WH2	235	GS136	WK01	0.9708%	0.003066	3.166686
NB	235	E-1838	GS136	1.0534%	0.002988	3.525846
SB	235	E-1838	GS136	0.9364%	0.003050	3.070424
WH2	235	E-1838	GS136	0.8618%	0.003108	2.772632
NB	235	E-1838	HV74	1.8047%	0.004292	4.205085
SB	235	E-1838	HV74	1.8484%	0.004332	4.266825
WH2	235	E-1838	HV74	1.9057%	0.004384	4.347212
NB	235	E-1838	WK01	0.9294%	0.002693	3.450609
SB	235	E-1838	WK01	0.9758%	0.002725	3.581241
WH2	235	E-1838	WK01	0.9236%	0.002711	3.406580
NB	235	WK01	GS136	1.1822%	0.003001	3.939581
SB	235	WK01	GS136	1.1523%	0.003040	3.790141
WH2	235	WK01	GS136	1.0484%	0.003043	3.445522
NB	235	WK01	E-1838	0.9800%	0.002655	3.691349
SB	235	WK01	E-1838	1.0249%	0.002695	3.803504
WH2	235	WK01	E-1838	0.9619%	0.002687	3.579809
NB	191Y	GS136	E-1838	1.1998%	0.003147	3.813274
SB	191Y	GS136	E-1838	1.1817%	0.003148	3.753939
WH2	191Y	GS136	E-1838	1.1251%	0.003220	3.494645
NB	191Y	GS136	WK01	1.2309%	0.003136	3.925297
SB	191Y	GS136	WK01	1.2905%	0.003120	4.135855
WH2	191Y	GS136	WK01	1.1955%	0.003203	3.732133
NB	191Y	E-1838	GS136	1.2810%	0.003144	4.074677
SB	191Y	E-1838	GS136	1.1897%	0.003164	3.760078
WH2	191Y	E-1838	GS136	1.1860%	0.003231	3.670227
NB	191Y	E-1838	HV74	2.4031%	0.004543	5.289771
SB	191Y	E-1838	HV74	2.3907%	0.004654	5.137302
WH2	191Y	E-1838	HV74	2.3458%	0.004672	5.021380
NB	191Y	E-1838	WK01	1.3137%	0.002804	4.684634
SB	191Y	E-1838	WK01	1.3536%	0.002854	4.742411
WH2	191Y	E-1838	WK01	1.3379%	0.002824	4.737952
NB	191Y	WK01	GS136	1.2752%	0.003121	4.085510
SB	191Y	WK01	GS136	1.2874%	0.003106	4.144381
WH2	191Y	WK01	GS136	1.2178%	0.003187	3.821408
NB	191Y	WK01	E-1838	1.2711%	0.002750	4.621375
SB	191Y	WK01	E-1838	1.3101%	0.002786	4.701552
WH2	191Y	WK01	E-1838	1.2422%	0.002764	4.493417
NB	Ge	GS136	E-1838	1.8494%	0.003050	6.062974
SB	Ge	GS136	E-1838	1.8054%	0.003038	5.942019
WH2	Ge	GS136	E-1838	1.6659%	0.003104	5.366618
NB	Ge	GS136	WK01	1.9364%	0.002992	6.471917
SB	Ge	GS136	WK01	1.9166%	0.002985	6.421242

WH2	Ge	GS136	WK01	1.8101%	0.003015	6.003591
NB	Ge	E-1838	GS136	1.8217%	0.003042	5.988630
SB	Ge	E-1838	GS136	1.7345%	0.003077	5.637520
WH2	Ge	E-1838	GS136	1.6433%	0.003144	5.227191
NB	Ge	E-1838	HV74	3.3591%	0.004392	7.647580
SB	Ge	E-1838	HV74	3.3234%	0.004404	7.547052
WH2	Ge	E-1838	HV74	3.3528%	0.004577	7.325845
NB	Ge	E-1838	WK01	1.7968%	0.002740	6.558468
SB	Ge	E-1838	WK01	1.8677%	0.002769	6.744061
WH2	Ge	E-1838	WK01	1.7381%	0.002811	6.183822
NB	Ge	WK01	GS136	1.9882%	0.002940	6.763259
SB	Ge	WK01	GS136	1.9407%	0.002977	6.520098
WH2	Ge	WK01	GS136	1.8650%	0.003003	6.210121
NB	Ge	WK01	E-1838	1.8583%	0.002713	6.849195
SB	Ge	WK01	E-1838	1.9149%	0.002755	6.949762
WH2	Ge	WK01	E-1838	1.7927%	0.002780	6.448076
NB	LS039	GS136	E-1838	1.3182%	0.003132	4.208754
SB	LS039	GS136	E-1838	1.3907%	0.003111	4.470356
WH2	LS039	GS136	E-1838	1.2384%	0.003235	3.827950
NB	LS039	GS136	WK01	1.3684%	0.003106	4.406257
SB	LS039	GS136	WK01	1.4161%	0.003099	4.569486
WH2	LS039	GS136	WK01	1.3239%	0.003116	4.248075
NB	LS039	E-1838	GS136	1.3439%	0.003135	4.286217
SB	LS039	E-1838	GS136	1.3490%	0.003159	4.269992
WH2	LS039	E-1838	GS136	1.2263%	0.003241	3.783393
NB	LS039	E-1838	HV74	2.4813%	0.004665	5.318835
SB	LS039	E-1838	HV74	2.3874%	0.004676	5.105844
WH2	LS039	E-1838	HV74	2.4048%	0.004737	5.076723
NB	LS039	E-1838	WK01	1.4731%	0.002828	5.208184
SB	LS039	E-1838	WK01	1.4682%	0.002849	5.153187
WH2	LS039	E-1838	WK01	1.3734%	0.002868	4.789149
NB	LS039	WK01	GS136	1.4696%	0.003055	4.811329
SB	LS039	WK01	GS136	1.4679%	0.003091	4.748775
WH2	LS039	WK01	GS136	1.3947%	0.003098	4.502500
NB	LS039	WK01	E-1838	1.4848%	0.002804	5.294807
SB	LS039	WK01	E-1838	1.4764%	0.002808	5.257329
WH2	LS039	WK01	E-1838	1.4143%	0.002848	4.965359
NB	Swe	GS136	E-1838	1.2986%	0.003086	4.208208
SB	Swe	GS136	E-1838	1.3030%	0.003141	4.148467
WH2	Swe	GS136	E-1838	1.1717%	0.003179	3.685283
NB	Swe	GS136	WK01	1.4264%	0.003142	4.539891
SB	Swe	GS136	WK01	1.4992%	0.003159	4.746367
WH2	Swe	GS136	WK01	1.4181%	0.003212	4.415368
NB	Swe	E-1838	GS136	1.3249%	0.003046	4.348861
SB	Swe	E-1838	GS136	1.2915%	0.003118	4.142057
WH2	Swe	E-1838	GS136	1.1561%	0.003154	3.665067
NB	Swe	E-1838	HV74	2.5389%	0.004415	5.750390
SB	Swe	E-1838	HV74	2.3916%	0.004407	5.426664
WH2	Swe	E-1838	HV74	2.5517%	0.004493	5.679659
NB	Swe	E-1838	WK01	1.3506%	0.002847	4.743739
SB	Swe	E-1838	WK01	1.3149%	0.002872	4.578015
WH2	Swe	E-1838	WK01	1.3319%	0.002905	4.585521
NB	Swe	WK01	GS136	1.4952%	0.003074	4.863399
SB	Swe	WK01	GS136	1.5143%	0.003108	4.871694
WH2	Swe	WK01	GS136	1.4633%	0.003147	4.649360
NB	Swe	WK01	E-1838	1.3496%	0.002837	4.757697
SB	Swe	WK01	E-1838	1.3110%	0.002845	4.608120
WH2	Swe	WK01	E-1838	1.3223%	0.002896	4.565898

Cave Bear Ancestry in Contemporary North American Brown Bears

NB	Adm1	GS136	E-1838	0.9220%	0.002896	3.184221
SB	Adm1	GS136	E-1838	0.8847%	0.002980	2.968309
WH2	Adm1	GS136	E-1838	0.7245%	0.003040	2.383629
NB	Adm1	GS136	WK01	0.9308%	0.002864	3.250008
SB	Adm1	GS136	WK01	0.8790%	0.002944	2.985692
WH2	Adm1	GS136	WK01	0.7726%	0.002933	2.634170
NB	Adm1	E-1838	GS136	1.0304%	0.002854	3.610186
SB	Adm1	E-1838	GS136	0.9008%	0.002963	3.040005
WH2	Adm1	E-1838	GS136	0.8110%	0.003022	2.683837
NB	Adm1	E-1838	HV74	1.4841%	0.004019	3.692706
SB	Adm1	E-1838	HV74	1.5051%	0.004188	3.594204
WH2	Adm1	E-1838	HV74	1.5257%	0.004256	3.584637
NB	Adm1	E-1838	WK01	0.9269%	0.002475	3.745048
SB	Adm1	E-1838	WK01	0.9260%	0.002564	3.610765
WH2	Adm1	E-1838	WK01	0.8723%	0.002579	3.382074
NB	Adm1	WK01	GS136	1.0739%	0.002824	3.803485
SB	Adm1	WK01	GS136	0.9717%	0.002911	3.338367
WH2	Adm1	WK01	GS136	0.8906%	0.002895	3.076274
NB	Adm1	WK01	E-1838	0.9564%	0.002473	3.867222
SB	Adm1	WK01	E-1838	1.0016%	0.002552	3.925382

WH2	Adm1	WK01	E-1838	0.8987%	0.002555	3.517155
NB	Den	GS136	E-1838	1.0375%	0.002891	3.589108
SB	Den	GS136	E-1838	1.0581%	0.002972	3.559952
WH2	Den	GS136	E-1838	0.9562%	0.003065	3.119511
NB	Den	GS136	WK01	0.9297%	0.002901	3.204823
SB	Den	GS136	WK01	0.9396%	0.002994	3.138012
WH2	Den	GS136	WK01	0.8338%	0.002982	2.796235
NB	Den	E-1838	GS136	1.0824%	0.002807	3.856251
SB	Den	E-1838	GS136	1.0350%	0.002952	3.506096
WH2	Den	E-1838	GS136	0.9654%	0.003017	3.199476
NB	Den	E-1838	HV74	1.8603%	0.004215	4.413493
SB	Den	E-1838	HV74	1.7648%	0.004353	4.053756
WH2	Den	E-1838	HV74	1.8146%	0.004415	4.110223
NB	Den	E-1838	WK01	0.9604%	0.002584	3.716929
SB	Den	E-1838	WK01	0.9768%	0.002695	3.624504
WH2	Den	E-1838	WK01	0.9104%	0.002685	3.390143
NB	Den	WK01	GS136	1.0227%	0.002844	3.595708
SB	Den	WK01	GS136	0.9773%	0.002938	3.325727
WH2	Den	WK01	GS136	0.8937%	0.002939	3.040516
NB	Den	WK01	E-1838	0.9738%	0.002564	3.797695
SB	Den	WK01	E-1838	0.9949%	0.002664	3.735135
WH2	Den	WK01	E-1838	0.8979%	0.002675	3.356452

#	Cave	Bear	Ancestry	in	Contemporary	Polar	Bears
SB	NB	GS136	E-1838	0.0281%	0.000580	0.485292	
WH2	NB	GS136	E-1838	0.0390%	0.000613	0.635845	
SB	NB	GS136	WK01	0.0078%	0.000597	0.129906	
WH2	NB	GS136	WK01	0.0081%	0.000589	0.136607	
SB	NB	E-1838	GS136	0.0235%	0.000591	0.396740	
WH2	NB	E-1838	GS136	0.0244%	0.000609	0.400609	
SB	NB	E-1838	HV74	0.0677%	0.000809	0.836503	
WH2	NB	E-1838	HV74	0.0206%	0.000815	0.252335	
SB	NB	E-1838	WK01	0.0336%	0.000500	0.672148	
WH2	NB	E-1838	WK01	0.0187%	0.000477	0.391349	
SB	NB	WK01	GS136	0.0071%	0.000592	0.119062	
WH2	NB	WK01	GS136	0.0190%	0.000596	0.319695	
SB	NB	WK01	E-1838	0.0177%	0.000488	0.362102	
WH2	NB	WK01	E-1838	0.0133%	0.000488	0.273470	
NB	SB	GS136	E-1838	-0.0281%	0.000580	-0.484888	
WH2	SB	GS136	E-1838	-0.0384%	0.000580	-0.662886	
NB	SB	GS136	WK01	-0.0078%	0.000598	-0.129787	
WH2	SB	GS136	WK01	-0.0406%	0.000561	-0.723943	
NB	SB	E-1838	GS136	-0.0235%	0.000592	-0.396453	
WH2	SB	E-1838	GS136	-0.0343%	0.000582	-0.589476	
NB	SB	E-1838	HV74	-0.0677%	0.000811	-0.835232	
WH2	SB	E-1838	HV74	-0.0669%	0.000784	-0.852876	
NB	SB	E-1838	WK01	-0.0336%	0.000501	-0.671439	
WH2	SB	E-1838	WK01	-0.0311%	0.000473	-0.657020	
NB	SB	WK01	GS136	-0.0071%	0.000593	-0.118961	
WH2	SB	WK01	GS136	-0.0211%	0.000557	-0.378645	
NB	SB	WK01	E-1838	-0.0177%	0.000489	-0.361780	
WH2	SB	WK01	E-1838	-0.0334%	0.000473	-0.704823	
NB	WH2	GS136	E-1838	-0.0390%	0.000614	-0.635455	
SB	WH2	GS136	E-1838	0.0384%	0.000579	0.663178	
NB	WH2	GS136	WK01	-0.0081%	0.000589	-0.136592	
SB	WH2	GS136	WK01	0.0406%	0.000560	0.724556	
NB	WH2	E-1838	GS136	-0.0244%	0.000609	-0.400476	
SB	WH2	E-1838	GS136	0.0343%	0.000581	0.589727	
NB	WH2	E-1838	HV74	-0.0206%	0.000816	-0.252192	
SB	WH2	E-1838	HV74	0.0668%	0.000783	0.853709	
NB	WH2	E-1838	WK01	-0.0187%	0.000477	-0.391283	
SB	WH2	E-1838	WK01	0.0310%	0.000472	0.657598	
NB	WH2	WK01	GS136	-0.0190%	0.000596	-0.319618	
SB	WH2	WK01	GS136	0.0211%	0.000556	0.378878	
NB	WH2	WK01	E-1838	-0.0133%	0.000488	-0.273445	
SB	WH2	WK01	E-1838	0.0333%	0.000473	0.705414	

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