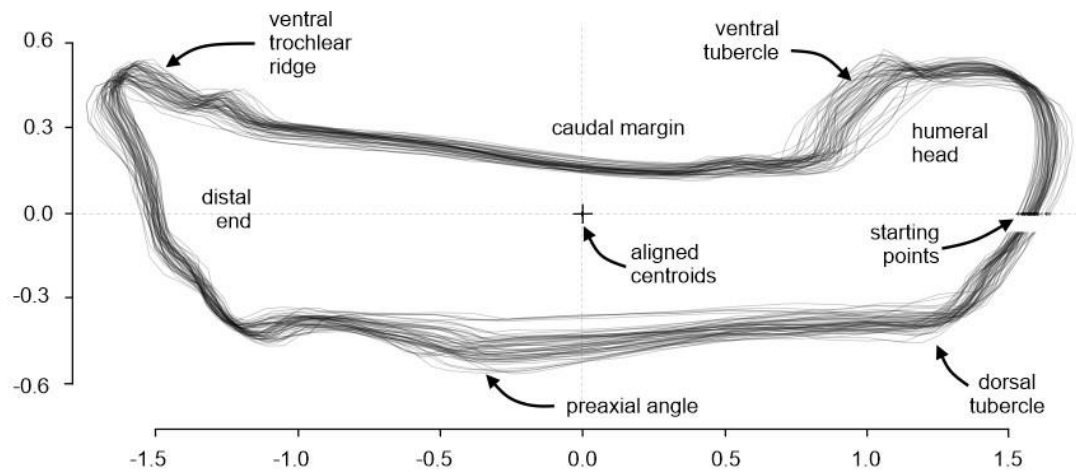
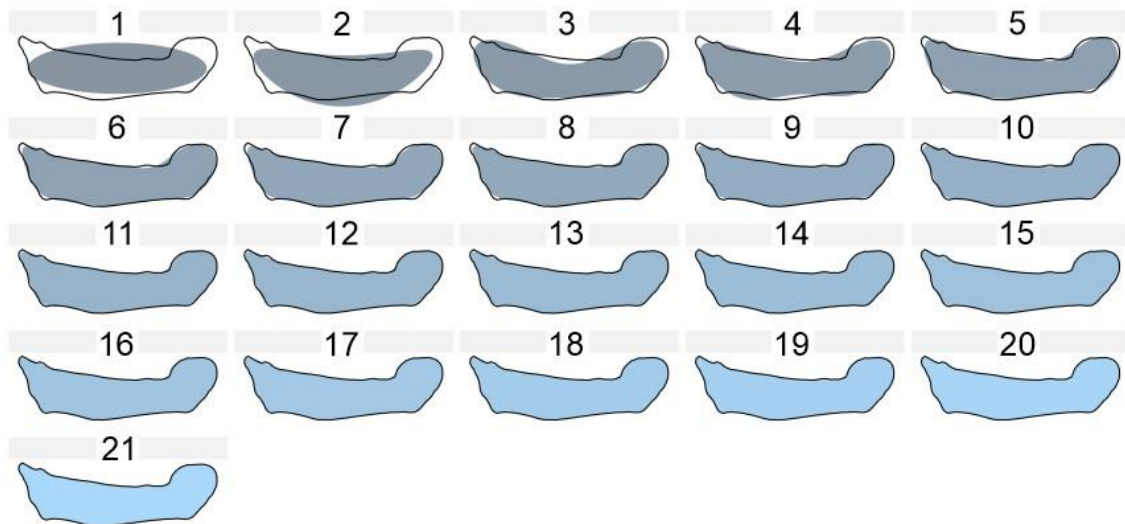


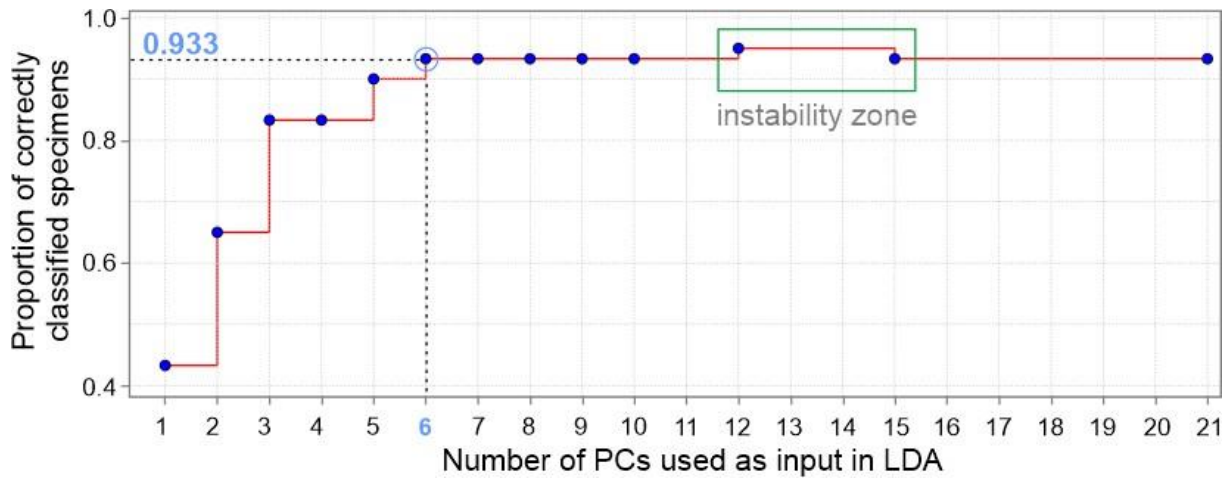
Supplementary material for: Jadwiszczak P. 2020. Outline shape analysis of penguin humeri: a robust approach to taxonomic classification. *Polar Research* 39. Correspondence: Piotr Jadwiszczak, Faculty of Biology, University of Białystok, Ciołkowskiego 1J, 15-245 Białystok, Poland. E-mail piotrj@uwb.edu.pl



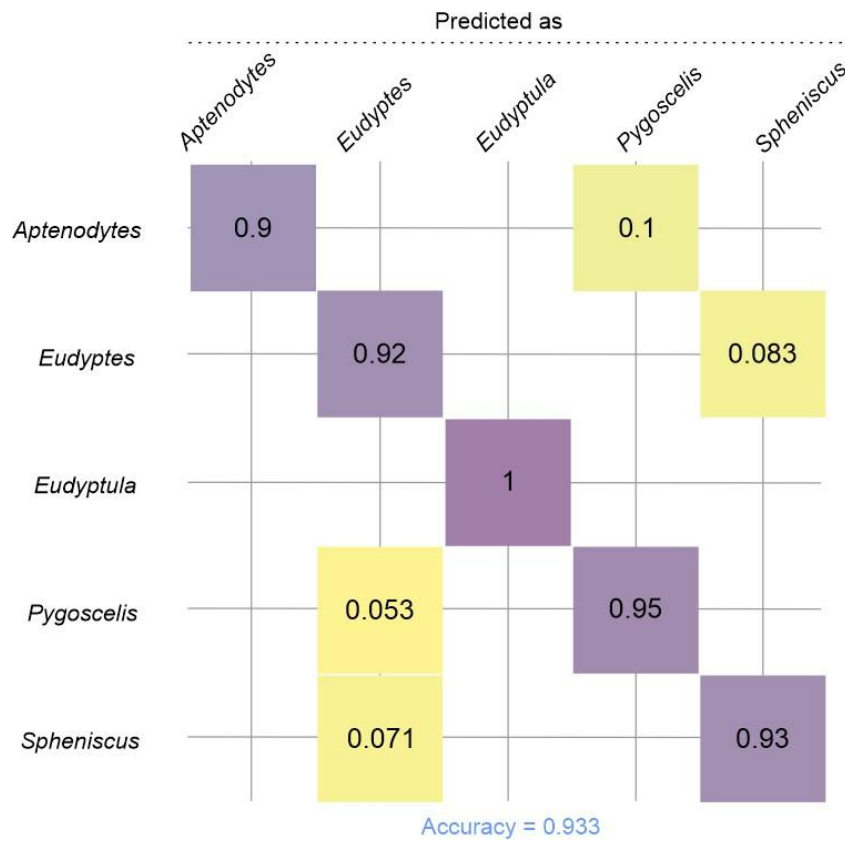
Supplementary Fig. S1. Stacked normalized outline-shapes of 60 humeri from the training set.



Supplementary Fig. S2 An exemplary reconstructed (based on harmonic descriptors) shape of a humerus assignable to *Pygoscelis adeliae*, compared visually with the maximal fit (black outline). Numbers denote ranges of harmonics.



Supplementary Fig. S3. Relationship between the range of principal components (PCs) used as an input in the linear discriminant analysis (LDA) and performance of the latter.



Supplementary Fig. S4. Leave-one-out cross-validation results for the linear discriminant analysis output.

Supplementary Table S1. Specimens used for building a model (training set; $n = 60$). Bones from the Natural History Museum at Tring (UK) and the University of Bialystok (Poland; marked with asterisks). All the bones were studied directly by the author.

Species	Specimens
<i>Aptenodytes forsteri</i>	NHM(T)UK 1905.12.30.419, S/1972.1.25, S/1998.55.2, 1846.4.15.27
<i>Aptenodytes patagonicus</i>	NHM(T)UK S/2006.31.40, 1946.4.15.33, 1846.4.15.32, 1846.4.15.31, S/1952.1.28, S/1952.1.29
<i>Eudyptes chrysocome</i>	NHM(T)UK S/1956.14.1, S/1956.14.2, 1898.7.1.12, S/1952.1.39, 1898.7.1.15, 1898.7.1.13, 1898.7.1.14
<i>Eudyptes chrysolophus</i>	NHM(T)UK S/2011.8.1, S/1952.1.40, an unlabelled specimen*
<i>Eudyptes pachyrhynchus</i>	NHM(T)UK S/1972.1.26
<i>Eudyptes sclateri</i>	NHM(T)UK S/1952.1.38
<i>Eudyptula minor</i>	NHM(T)UK S/1966.51.1, S/1952.1.41, S/2002.2.1, 1896.2.16.38, 1881.1.17.105
<i>Pygoscelis adeliae</i>	NHM(T)UK 1850.9.7.1, 1849.10.2.2, 1846.4.15.34, S/1952.1.35, S/1966.4.2, two unlabelled specimens*
<i>Pygoscelis antarctica</i>	NHM(T)UK S/1973.66.6, S/1966.4.1, S/2001.50.288, an unlabelled specimen*
<i>Pygoscelis papua</i>	NHM(T)UK S/2006.1.16, 1946.4.15.29, 1860.12.19.5, 1884.3.26.1, S/2001.45.2, 1900.8.17.1, S/2006.31.35, an unlabelled specimen*
<i>Spheniscus demersus</i>	NHM(T)UK 1898.7.1.8, 1898.7.1.9, 1905.7.23.1, S/1998.48.24, S/1998.23.2
<i>Spheniscus humboldti</i>	NHM(T)UK S/1961.15.1, S/2012.23.1, S/1998.12.8, S/2000.7.1
<i>Spheniscus magellanicus</i>	NHM(T)UK S/2001.45.1, S/2002.1.1, S/1972.1.27, 1891.7.20.133, an unlabelled specimen*

Supplementary Table S2. Sources of pictures used for extracting outlines for the testing set ($n = 20$).

Taxa	Specimens	Sources
<i>Aptenodytes forsteri</i>	NRM-PZ A.611330	A photo taken the author at the Naturhistoriska Riksmuseet (Stockholm)
<i>Aptenodytes patagonicus</i>	MCZ 347208, USNM 533568	Harvard Museum of Comparative Zoology and Aves 3D (https://www.aves3d.org); Thomas & Ksepka 2013, fig. 3 (respectively)
<i>Eudyptes chrysolophus</i>	YPM 102975	Yale Peabody Museum and Aves 3D (https://www.aves3d.org)
† <i>Eudyptes warhami</i>	NMNZ S.025157	Cole 2019 (an unnumbered photo)
<i>Eudyptula minor</i>	MCZ 346025, USNM 614343	Harvard Museum of Comparative Zoology and Aves 3D (https://www.aves3d.org); Thomas & Ksepka 2013, fig. 3 (respectively)
<i>Pygoscelis</i> sp.	seven unlabelled specimens	Photos taken directly by the author at the University of Bialystok (Bialystok)
† <i>Spheniscus chilensis</i>	FU 143295	Chavez-Hoffmeister 2014, fig. 4.3
<i>Spheniscus demersus</i>	USNM 630947, an unlabelled specimen	Thomas & Ksepka 2013, fig. 3; Mayr 2009, fig. 7.5e (respectively)
<i>Spheniscus humboldti</i>	An unlabelled specimen	Chavez 2007, fig. 5a
† <i>Spheniscus urbinai</i>	MUSM 898	Chavez-Hoffmeister 2014, fig. 4.1
† <i>Megadyptes waitaha</i>	CM AV9654B	Boessenkool et al. 2009, fig. S3

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Cole T.L. 2019. Chatham Island crested penguin. In: C.M. Miskelly (ed.): *New Zealand birds online*. Accessed on the internet at www.nzbirdsonline.org.nz on 1 February 2020.

Mayr G. 2009. *Paleogene fossil birds*. Berlin: Springer.

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Supplementary Table S3. The elliptical Fourier coefficients, a set of four descriptors (A_n – D_n) for each of 21 harmonics (rows) used to re-describe a given outline.

A_n	B_n	C_n	D_n
<i>Aptenodytes</i> #1			
1.48553350588769	0.205268239262957	-0.0500603820986771	0.420036188933817
-0.00911615335824189	-0.0129266519614676	0.141405175128767	0.0587175004458221
0.114567166981129	0.0128659073199814	-0.07175278327334	0.136182663031919
0.00690870599990808	0.00708459684767701	0.0116501239341897	0.0561122117347481
0.0298255119562208	0.0120715119164402	-0.0439039902176961	0.0223526699893506
-0.00949087815366915	0.0185631179005616	0.0153539362817678	-0.00396709027992122
-0.000926090970017414	0.00459449009165187	-0.0087742033651792	-0.00440881119410812
-0.0179755963664719	0.00542646593658123	0.010876865734187	0.000815560481959767
0.00584146306180859	-0.00279607802749864	0.00260296406498321	0.00229821952055042
-0.00538850143114418	0.000782459856634849	-0.00686873430333104	-0.00563502436899773
0.00604953836959299	0.0025671342122371	-0.00872229442034853	0.00307774022335087
-0.0039138051984534	0.00418790500660646	0.00394556512151191	-0.0110040805153725
0.00143912147306606	-0.00033344444428814	-0.00326213571409992	-0.00569348790573401
-0.00472850109798231	0.000803502224085186	0.00395581396260013	0.00256456802691381
0.00423030739025778	-0.00324042324890485	0.000303133617795702	0.00255129109229463
-0.00108399068982292	-0.000101027486057746	-0.00357181759961738	0.000679074396884311
0.00458225226111412	0.000780696531977188	-0.00301117159599597	0.00255559130365841
-0.00204476263626191	0.000412717596990923	0.00148982559819059	-0.00231454758056019
0.000677553424404129	0.000526898203971132	0.00181327742869953	0.00395495547325398
-0.00158645014035625	-0.00241501746743361	0.00127599036755508	-0.00144209636522587
0.000962862837479603	-7.7035713206315e-05	-0.00153285330983752	0.00367018236932983

A_n	B_n	C_n	D_n
<i>Aptenodytes #2</i>			
1.47737533950149	0.225376504322907	-0.0625235969474823	0.422698946518088
0.00440148724620009	-0.00960653098144894	0.158617640219394	0.0621007823329818
0.104345515791567	0.0193611438302756	-0.0796731616267199	0.137850797897471
0.014765672110885	0.00667020831700701	0.0133902932835673	0.0534109820813314
0.0227136334392942	0.0123103557862166	-0.0466853403430802	0.0222492181846102
-0.00630906501566449	0.0197082194323488	0.0140030750764761	-0.00477725422241295
-0.00116357901919524	0.00302162841791664	-0.00764340950149255	-0.00445714128108944
-0.0163095805420817	0.00443873772697835	0.0100336855237588	0.00161678731085983
0.00391489086896542	-0.00369240378437952	0.00275188555223371	0.0022385714404546
-0.00562282315175609	0.000673570710840199	-0.00408666305898058	-0.00518422851461983
0.00382474433722052	0.000552728745538842	-0.00970452464995793	0.00163209869501461
-0.0034788471819057	0.00415713882837136	0.00612118209387302	-0.00738001656002093
3.78343946850387e-05	-0.00262877844195641	-0.00451531354008336	-0.00543899168679246
-0.00298707546819448	0.00234889849138603	0.00583189267117901	0.00146420529478238
0.00354658490731403	-0.00452864246367559	-0.00206763799380247	0.00182951710003973
-0.00072344702027268	0.00139113573287918	-0.000283128913910626	-0.00139094646376566
0.00343200313698921	-0.000228007444853421	-0.00289437952277971	0.00263286320826415
-0.00284944526686681	0.000577522746525756	0.000990610188398413	-0.00360664802073721
0.000891663094784908	0.000157910506321467	0.00122276573686564	0.00601098048253715
-0.00144799718073003	-0.00267114787486635	1.39387107006004e-05	-0.00316476724308611
0.00148979635030886	0.000468186168464451	-0.000595661408211121	0.00485288332345319
<i>Aptenodytes #3</i>			
1.47227296886649	0.223668417294251	-0.0589299637685754	0.434801765006582
-0.00100379787065929	-0.0126171116096161	0.1476915877869	0.066298832859315
0.102145476846676	0.0148361650414758	-0.0770868615370317	0.146738288052692
0.011087694549422	0.00922037122200899	0.0138326434064834	0.0512019883237252
0.0236585896992565	0.0102608657009682	-0.0454542041684489	0.0220595401620225
-0.0054454159353785	0.0224203514812798	0.0222511287426638	-0.00769281705358974
-0.00216954545661762	0.00164401777291329	-0.00687837575700138	-0.00568382406736381
-0.0151052279559153	0.00739372148807415	0.0112141593860246	-0.000165957408088201
0.00403941929717527	-0.00348062856984699	0.00031937888667974	0.00333385569592863
-0.0051690307067142	0.0019460738988391	-0.00763891824960722	-0.00891900661225761
0.00347058376290169	0.00158234886383106	-0.00905140655143957	0.00497127325865852
-0.00259459827545788	0.00393548004808537	0.00480328900339572	-0.0119283540858594
0.000867476470500215	-0.00261812196549012	-0.00306281422010415	-0.00358833505117202

A_n	B_n	C_n	D_n
-0.00195077214334223	0.00188666646889815	0.00384421224929989	0.000929988440011965
0.00396293526195346	-0.00405387411464243	0.000195106861697273	0.00195038119037355
-0.000820862343318008	0.0016322346240714	-0.00257438343867471	-0.00115766798716008
0.00274145607529099	-0.000151809619796119	-0.000762110109019134	0.00304299212336304
-0.00299774721576558	0.00107376528129194	-0.00055150380403157	-0.00170142546272643
0.00128992482285217	-2.38116527801759e-05	0.00220385773573001	0.00521575999108518
-0.00179502196759495	-0.00221401614799297	-0.00183953696674069	-0.00284234790540364
0.00215302332481076	0.000884776042072061	0.000402110519304653	0.00323313839323114

Aptenodytes #4

1.47085521234526	0.220832282743529	-0.0615072656840867	0.438043476341676
0.00592670973113999	-0.0169733641586093	0.155338940765228	0.0622766803585036
0.102229039660136	0.0154443290926776	-0.0751590225895986	0.143476505397222
0.0134577923157188	0.00966711020334462	0.0161129740230059	0.0499564151035805
0.0201706569419383	0.0121115890232398	-0.0496129715278142	0.020730793066817
-0.0036023961836761	0.021520915513016	0.0207455531243934	-0.00943091043110172
-0.00321992272630173	0.00086030419513274	-0.00987960182771221	-0.0021187034808164
-0.0107239874194988	0.00442138870470974	0.00890134045102753	-0.00104646263622906
0.00556085662564921	-0.00415693861734824	-0.00204291173165782	0.00533080745277575
-0.000966430283100953	0.00209597987045786	-0.00780167673819632	-0.0122252112947669
0.00275797661510981	0.000830624769534367	-0.007766723556708	0.00293283960209081
-0.00202724632888757	0.00376547140773198	0.00661003342774868	-0.00944526112023649
-0.000686427502573692	-0.00546830345549	-0.00141845486397979	0.000250840444188041
-0.00088864406618602	0.00133914375070131	0.00179658907797171	0.00342247016011852
0.0038651985891898	-0.00519993974209471	-0.00112059600279655	0.00334212795554648
-0.000546711955096613	0.00302792598071494	-0.00246088830618523	-0.001081264365531
0.00218955206266397	-0.00144813382520725	0.000879003155058075	0.00202328586481231
-0.0030474747311521	0.00116112766924397	0.000260916663774647	-0.00169983660034354
0.00102921304397244	-0.00136399422643747	0.00275311075927302	0.00378888164424282
-0.000885120630469473	-0.00116761017967887	-0.00121666022104975	-0.00374468940986112
0.00086987549491978	0.000646607608212891	0.000506913271456048	0.00234934972532134

Aptenodytes #5

1.48237620323593	0.27265006746796	-0.0702381142523802	0.401789909187757
0.00634644726282196	-0.00365768479214748	0.160566193665824	0.0669046882378875
0.0959960676292599	0.0306034318614841	-0.0702516817170698	0.122539806766829
0.00654976330916526	0.00808497696218876	0.0182883053552414	0.0524820324978775

A_n	B_n	C_n	D_n
0.0219328136704233	0.00908025490605564	-0.0561362874395649	0.0242245678854973
-0.0081549281329281	0.0184912094275874	0.00980333243035196	0.00961376458094206
0.00290708446188162	0.00552346511736289	-0.0143480998394927	-0.0126413735271962
-0.0193800416732362	0.00523882165498485	0.00299352984368265	-0.0024093187566908
0.00030967561577271	0.00155136017080034	0.00648259289963356	0.00349342794736501
-0.00995229523250501	-0.00385941561363999	0.00685604124466951	-0.00623427564163951
0.00154966699042729	2.89915419730968e-05	-0.00765633675648996	0.00328081845126149
-0.00312146791055267	0.00147735909520258	0.004772595284426	-0.00283100851574561
0.00242870033967247	0.00134607539702433	-0.00338327406776925	-0.00715467899184116
-0.00487608794686031	0.00265046698846614	0.0052890953421615	-0.00317212513379295
0.0015065861642252	0.000247345448880797	0.000663728560252533	-0.00141902561997082
-0.00303487389047755	-0.000600015166415928	0.00197255401522788	0.000598707686632277
0.0034469218854729	0.000613539497809476	-0.00180473766323737	0.00278627072438042
-0.000394897124075998	-0.00046844221257067	0.000108786238194151	-0.00366248120257673
0.00138066310410013	0.00327211015715704	-0.00373281420065428	0.00278185151132543
0.000212538406098048	-0.000221166548358494	0.00346218674595015	-0.00262782344982813
-0.000885743009942681	0.00123302866476456	-0.00321238924634949	0.00108451329083128

Aptenodytes #6

1.47984130888348	0.266538088771554	-0.0711750009197783	0.409772414086631
0.00436022121917589	-0.00813108153433502	0.15752783633497	0.0658104800524986
0.0958988885604528	0.0291622390286009	-0.0691296146475957	0.124774987761074
0.01029295727696	0.00400060158492602	0.0182150517694059	0.0558697717631827
0.0222557460383477	0.0115380158163353	-0.0505823361725745	0.0226994569637959
-0.0056467960676633	0.0180537104433272	0.0123617796257454	0.00761332726409926
0.00111195185733289	0.00966613675269182	-0.00946367990695444	-0.0117735494568945
-0.0181795918847491	0.00541897025049927	0.00509173150897716	-0.00262219315286652
0.000484181562044545	0.00183659010673237	0.00466556783844353	0.0018791738675657
-0.00925376089437377	-0.0026288916555932	0.00334561852723842	-0.00396000954151472
0.00400046974599244	0.000799126192553391	-0.0106412529630481	0.00010963522649656
-0.00326837046046086	0.00151899808356655	0.00227840575770094	-0.0029745289116305
0.00361062518368897	0.00163524323328713	-0.0035302411537185	-0.00922374775428964
-0.00467714879897099	0.00204831735715625	0.00617642658575818	-0.000905389682006126
0.00316848637276679	-0.000916439062177173	0.000858099538005358	-0.00251385410107704
-0.00238476420591581	-0.00082957207286889	0.00178125936574828	0.00183008184522399
0.00454546477535752	0.00103160295675178	-0.00429957776050833	0.00269088145387818
-0.000203331982030265	-0.000787451819797324	0.00205355031155351	-0.0028383580564289

A_n	B_n	C_n	D_n
0.000544342345543333	0.00277974509019291	-0.00532494379287697	0.00389000561872329
-8.01054421175162e-05	-0.00127224584472892	0.00446407659614744	-0.00164797600289435
-0.000530653496202423	0.000315141033369676	-0.00311097107963552	0.00253419791382327

Aptenodytes #7

1.472577034682	0.233212892535202	-0.0606737879366522	0.426719279332231
-0.00792613527782938	-0.00711175971508903	0.157263004715925	0.0623311603698283
0.100388210344813	0.0163764142275668	-0.0661557469172729	0.138592853693284
0.0126999595719122	0.0067770897447952	0.00941182187989046	0.0467426884977003
0.0226887400200852	0.0082659689664409	-0.0578836687746341	0.0298572340657004
-0.00745316428225345	0.0201091726491366	0.013819863751474	0.000714941605540517
-0.00128345532501461	0.00325111430249927	-0.00893252454972623	-0.00872899362436641
-0.018481719151147	0.00480644512811809	0.00593234536273114	-0.00174658799208526
0.00195857805962191	-0.0034389306555879	0.00800177321383331	0.00575601022998657
-0.00684551896548966	-0.00111212286245672	0.000587830462479575	-0.00669137531089013
0.00457639640037799	-0.000485618167469196	-0.0092498229913516	0.00263409837783122
-0.00295873542478559	0.0044798147349917	0.00407830946719696	-0.00751235339219395
0.00119543048993253	-0.000244030440841111	-0.00184921638080602	-0.0056094244227461
-0.00449184191336497	0.0026943006835301	0.00604833375925015	-0.00240030863305167
0.00254723037079971	-0.00333915803006738	-0.000851530064397642	0.00111309064869879
-5.57419814188351e-05	0.00107463754193353	-0.00193121302541258	0.000488844427362736
0.00500289732335077	-0.00048929011268388	-0.00275791415420179	0.00210143239112956
-0.000804182280527026	0.00156028535518001	-0.00190186567016072	-0.00435978550569093
0.00129070071662553	0.00153098345068562	-0.000473314376243643	0.00556492073159478
-0.00136875573714453	-0.00173666517004482	0.0010602737958514	-0.0027316997514551
0.000366003522942762	-0.000281720551067887	-0.000478732722697776	0.00428345209824874

Aptenodytes #8

1.47915787377917	0.232381488945777	-0.0608943633591715	0.419521663696698
0.00249087971357097	-0.00148543849780254	0.15295636509981	0.0584849365250492
0.099978641026828	0.018609390605348	-0.0720890441421055	0.1294782831977
0.0100701412160585	0.00982372223647416	0.0144164272698472	0.0509987877859615
0.0220840074315061	0.00651702639079288	-0.0546160149453942	0.0297467226493293
-0.00855466450359439	0.0192299812224091	0.0123901432047865	0.00305898289511215
4.30138684550668e-05	0.00327151660107574	-0.00937262213130823	-0.00662114426206767
-0.018129839416543	0.00605084921289351	0.00792110846554438	-0.00172267762264611
0.00165998182362107	-0.00275559353371354	0.00620992211860901	0.00479395174564295

A_n	B_n	C_n	D_n
-0.00809289066919219	-0.000536456896762655	0.00193322507871516	-0.00745949591175641
0.00370523030479762	-0.000893145029537112	-0.00920369866856371	0.00329922057981723
-0.00329939375798725	0.00293206702927539	0.00470999600732344	-0.00814984319856452
0.0011956001700123	-0.00102141865788384	-0.00311388656770294	-0.00632204945972584
-0.00419432029046946	0.00262671432536373	0.00486986757231569	-0.00209483086026688
0.00246063338946038	-0.00324332057365392	0.00065111319448327	0.000835423185921438
-0.00111942170006889	0.000740312767569547	-0.00168966459408164	-0.00041364463867156
0.00449970625181589	-0.000253382436466516	-0.00209533257404798	0.00374592052943664
-0.00111174197038794	0.000387624213122721	-0.00136108691708179	-0.00505056587312415
0.00126560883979249	0.00202832368936925	-0.00059274715306035	0.00564926553684162
-0.000681138740519726	-0.00214687829670657	0.00214821445260088	-0.00230372385030133
4.81828482210316e-05	0.000181653550813112	-0.000755242735218033	0.00367442461548497

Aptenodytes #9

1.48407788605956	0.258696316017112	-0.0667747069625126	0.405294469767905
0.00223752003988948	-0.00798468614822847	0.155490984220127	0.0612692793235967
0.099502407979146	0.0261913799209232	-0.0663656231057917	0.133908503071738
0.0093475874898411	0.00849009464203273	0.0176144137871056	0.0490002643732622
0.0240583995666201	0.00977642121394011	-0.052963693129305	0.0248862185473485
-0.00562729209154714	0.0215107012810263	0.0145857291999484	0.00335111288498325
0.00150836014027547	0.00754986435758428	-0.011863860394786	-0.00932992154292175
-0.0166515063531735	0.00870539941201889	0.00676241202529676	-0.00361698668316318
0.000687035914784652	0.000162682356518287	0.00518286568181887	0.00304634195108786
-0.00729769962409877	-0.000244304314825802	0.0028815855627022	-0.00665660523347378
0.00365864042740485	-0.000580502013267203	-0.00985862262678921	0.00439147850004525
-0.00155659675517388	0.00331929194685854	0.00213239732739728	-0.00684909848404187
0.00309445060756386	0.000513110989410532	-0.00499441566730377	-0.00736748972498133
-0.00387839975455923	0.00332591211029924	0.00346222048339155	-0.00329753456565731
0.00292843200064441	-0.00224462095930131	0.000368605056035966	-0.000406675666860654
-0.00155821597579467	-0.000784740385679287	-0.000785999747233372	0.00114253893068291
0.00494975718401129	-0.000680138495247737	-0.00236809560321422	0.00358311790381441
0.000190629517716136	-0.000772783800151442	-0.000786921071458497	-0.00386572246396239
0.00144194379265359	0.00192651607754814	-0.0016638576621683	0.00463631191077573
6.79324382242861e-05	-0.00166062873200825	0.00375614109047484	-0.00234132985612436
-0.000901935997210162	0.000122049719435436	-0.00173674316248164	0.0035438202545034

Aptenodytes #10

A_n	B_n	C_n	D_n
1.48258122571345	0.235095903402557	-0.0609734606440954	0.407554775631772
0.00299422981079631	-0.00647788703781319	0.153202725070269	0.0613441394297197
0.0988512646563539	0.0254688602238681	-0.0717502642247879	0.13688565791622
0.0127075346177191	0.00650712500696042	0.0180373281077132	0.0516055283885416
0.0213129857637	0.00990511285805248	-0.0555725734882281	0.0282801705133836
-0.00654736048711918	0.0170397278353635	0.0132288467900714	0.00323025105179268
-0.000196931642756802	0.0073110574370061	-0.0105397126857602	-0.00714730303761631
-0.0169067690672912	0.0057898364704066	0.00794221156392205	-0.00282189607890778
0.000824799153777263	0.000305228423974851	0.00533167893721835	0.00317664647325068
-0.00698227393144897	-0.0013766921174081	0.00118864760143692	-0.00737230718687675
0.00483848375976487	0.00059865913376426	-0.00825316864243346	0.00207959155820919
-0.00265086598584135	0.00381715647246592	0.00457102580753389	-0.00653739828316117
0.00207334554649269	0.00016674768661308	-0.0038651239034367	-0.00702751479671889
-0.00415179154772625	0.00229986120236573	0.00456754180141034	-0.000779128170942266
0.00330956712622314	-0.00291288440841159	-0.00123673502207165	0.000474547257830782
-0.000504930081836382	4.88553274904288e-05	-0.000757240943976702	-3.29170065490906e-05
0.00486005978296518	0.000179919451884104	-0.00360239266902119	0.00319955404646245
-3.69458245379793e-05	4.72757249939864e-05	-0.00012300930250215	-0.00474976746700307
0.000875450836623118	0.00180150705805152	-0.00195196805106473	0.00528138001735108
-0.00041750983083576	-0.00193643863852805	0.00296402911785513	-0.00296379454433084
-0.00054485227748297	-0.000492431119579896	-0.00103686336709158	0.00456786197715985

Eudyptes #1

1.46829559034967	0.276901995083309	-0.0695279786567548	0.415499210938407
-0.00369083087040483	-0.0236073200420229	0.16724106635336	0.0825104656673477
0.0917132502417591	0.0210533862980015	-0.084255487808116	0.141829631498646
0.0164188460511509	0.00782527170741075	0.0175465220039123	0.0452216098229594
0.0187079689373163	0.0100296880250156	-0.0624845274324975	0.0139450717545542
-0.00795424604768285	0.0217075273879044	0.0253911923700162	0.00312115656617095
-0.00392033122732151	0.00440864116173074	-0.00208146429504024	-0.00397833832966294
-0.0145936474826634	0.00450580598410601	0.00870152104758807	-0.00192361874853966
0.00123726198681103	-0.00129504763871883	-0.00368189753467112	0.0117778815886102
-0.00517992948583786	0.00261158631838715	-9.75499296204577e-05	-0.0117792571295151
0.00324191198902891	0.000778499278437562	-0.00980738235516226	-0.00305865293809962
-0.00555095522558987	0.00391166179385733	0.00475106575922394	-0.010711855560523
0.00331054634097714	-0.00153694242015465	-0.000981620693932023	-0.00505217866694422
-0.00260942747255768	-0.000460738651095001	0.000474680085221712	-0.00104147337374631

A_n	B_n	C_n	D_n
0.00616185453936346	-0.000858689081574374	0.00130673045464141	0.0034217776973065
-0.000479034320035833	6.78513998257379e-05	-0.00256773252741595	-0.0012004333736047
0.00302847235094669	0.00141534181994729	-0.000832127512891683	0.00687471015504138
-0.000929846062501046	-0.00124116184702629	0.00106596659523272	-0.00164047729465193
0.000636500542881378	0.000143111668441548	-0.00337819694011178	0.00355492989132586
0.000675841733235712	-0.00131946462323387	0.000314124869594105	-0.00159336718827711
2.70063527603499e-06	-0.000417592059837476	-0.000805825141400991	-0.00086542601388266

Eudypetes #2

1.46672716400398	0.250080452466593	-0.0647587160829303	0.428011189753623
-9.84711593505117e-05	-0.0100376144649302	0.16316102721829	0.0662528085971749
0.0965225963984504	0.0218349019240085	-0.0729881778065278	0.127822672714794
0.00862278240750498	0.00494815873921689	0.0122054607424628	0.0483329224311207
0.0228048114183014	0.00673449833015313	-0.0624785244377534	0.0252876376242064
-0.00746219923472381	0.0165776818145719	0.0133525322553091	0.00742982572414682
-0.00175167783796606	0.00505042483661565	-0.00800405532638198	-0.00609518141627796
-0.0180797126134367	0.00402449784301151	0.00773079471903619	-0.00670173986425395
-0.000244639160661316	-0.00219311853546557	0.00443229189592599	0.0110873103653779
-0.00891939592071807	-0.0016321026902406	0.00399002567570066	-0.00517202961735761
0.00445338879403552	-0.00146486425713712	-0.00747617142253365	0.000521649198411607
-0.004756267735795	0.00397985540289814	0.00330054997134407	-0.0088228171510481
0.0031615214439516	0.00149646366320009	5.42860989799921e-05	-0.00800129208252282
-0.00533906849889632	0.00221764896255657	0.00458449923237956	-0.0031430873201941
0.00331803748086209	-0.000638728426061998	0.00225776158797392	0.00234004884964063
-0.00145510363242587	-0.000948441331866875	-0.00278774415257241	-0.00191631792440098
0.00415566574788333	0.00155648963705955	-0.0029123658772767	0.00518560642684246
0.000310101302081644	0.000424136435306258	0.000372822057380203	-0.00398139507656393
0.000647589642498882	0.00172611084888399	-0.00252900730122126	0.00285022372757781
-0.000417649542383729	0.000378070907672007	-0.000145921474021031	-0.000868811599080171
0.000795356853995194	-0.000314660882521922	-0.000896490269634836	0.000716338123931951

Eudypetes #3

1.4492731172914	0.298836937364005	-0.0807755683254988	0.42843727247527
0.00311400396117215	-0.0260563316438358	0.191206853371736	0.0957185685044169
0.0928739715452809	0.023393518990167	-0.0918392733338687	0.125358327410804
0.0109916461088712	0.00577795570203208	0.00549270207670368	0.0532764794950749
0.0245182782368918	0.0123196425481905	-0.0567523934945621	0.0048806236755219

A_n	B_n	C_n	D_n
-0.0137302097688852	0.0185853281532598	0.0160146269425224	0.010437154619416
-0.00436874247940618	0.00548978631947748	-0.00297752609269755	-0.00413695626289663
-0.0204997508176705	-0.00295525832649812	0.00956187589147109	-0.00260506219745986
0.00160982597632326	-0.00137367477124227	-0.00299741090050571	0.00976535734810625
-0.00610425062500932	-0.00299702955906168	0.00472038600039804	-0.0064675139305425
0.00492519377373419	0.00245743310422774	-0.00926500058661182	-0.00810293899330931
-0.00723866852422811	0.00290060838957892	0.00424931961302848	-0.00507407693275139
0.00195137447876488	0.00183495738751912	0.00421310802861476	-0.00669557669634261
-0.00518413104680171	-0.00332649802005621	0.00438047610920761	-0.000154067234184134
0.00389529053429456	0.000376542563810165	-0.00230762760452717	0.0051560357656929
0.0018281369833001	-0.00167271056561575	0.00104782354246268	-0.00150847466790577
0.00233991052495804	0.00386617372971541	-0.00661357375201136	0.00177277104717095
-0.00028748336622726	0.000913496273123351	0.00342956088684619	-0.00157597447823699
-0.000853861466373486	0.000558619444919435	-0.00294238905604271	0.000257585365162509
-0.000653612037271005	-0.00126627067842256	0.000419300684002334	-1.28285423652809e-05
0.00191328621263535	-0.000496639439695311	-0.000414750744082633	0.00129388199988464

Eudyptes #4

1.45452189958578	0.293965025707238	-0.0782644743441996	0.428149798034972
-0.00364517988989647	-0.023951709635918	0.183261185794935	0.0821286041405975
0.0943459654901358	0.0189436873746723	-0.0841742833444209	0.125900384652029
0.0146562632347365	0.00561678837469877	0.01410493678509	0.052382806633284
0.0284800852032485	0.00825069698510389	-0.0584275040292414	0.0104809115053385
-0.00785663485639541	0.0233437610943306	0.0172913984768318	0.00865120267026477
-0.000996076368121103	0.00797117020169206	-0.00298805763479323	-0.00876382089790622
-0.0197307788965768	0.00485700669188176	0.0104630873888785	-0.00448118096470365
0.000102725211474854	-0.00192520485636297	-0.00159792829156109	0.0120404023024638
-0.00584612963622042	-0.00178484177207943	0.00295952688230614	-0.00389399100726265
0.00580981233299897	-0.000329933009169864	-0.0141802949669583	-0.00251630929085019
-0.00411504900571788	0.00454063463085151	0.00129667682710698	-0.00855396842587516
0.00331326856332937	0.0023271679945801	-0.000414979524697443	-0.00918136754062622
-0.00493468154997194	-0.000554452327813228	0.00449214040175362	-0.00312746518276407
0.00321981507958036	-0.000848641891939908	0.00150924052714411	0.00336087977977561
0.000492727791147918	-0.00269074459288117	0.000679665171699183	-0.00165989201190243
0.0042470479937197	0.00195972659959165	-0.00333874104434342	0.00581739744270074
0.000850798807638358	0.00036999753610506	0.00241926090222286	-0.000960398321423235
-9.80999470983772e-06	0.00135479157066877	-0.004248566592341	0.00239088126449676

A_n	B_n	C_n	D_n
-0.00105395264715523	-1.13536807730236e-06	0.000253901990750676	0.00042908678421451
0.000881417971011187	-0.00123101208991198	-0.000857754686191731	-0.000276303946497421

Eudyptes #5

1.45535274344049	0.275445632620338	-0.0774061691127092	0.427154245961198
8.57857863291634e-05	-0.0151078583892344	0.187634408196762	0.0849206372295572
0.0939765799781469	0.0230727635619527	-0.0843394533135122	0.125286865473237
0.0132524664333039	0.00571151476942718	0.00545593506157808	0.048488107941449
0.0235621033462297	0.0119826458558414	-0.0585443716096286	0.0152511198650227
-0.0101877530785622	0.019769360853959	0.0176207954436036	0.00955289111859019
-0.00520194696438182	0.00675377912045704	-0.00465497820949983	-0.00616069183367021
-0.0203916052386527	6.41906226078382e-05	0.00861900599895044	-0.00273360940724831
0.000363129434696412	-0.00155365515052585	5.43912244918733e-05	0.0100517732120172
-0.00683638712852115	-0.00263257311638828	0.00207210637865721	-0.00464052073453667
0.00507083391184215	0.00035524219778665	-0.0108996533245492	-0.00514963986243546
-0.00588058091145834	0.00405222209687157	0.00460254729739406	-0.00661000816848346
0.00215482381178565	0.00152982471722603	0.00168937399533389	-0.00926696704842375
-0.00637825968954978	-0.000833424293935984	0.00604335015727136	-0.000686530980202405
0.004269463505178	-0.00121539501269488	0.000320099219527213	0.00323045208027028
0.000140696254536755	-0.00238008513155278	-0.000247823821577858	-0.00155023563244725
0.00406056027721518	0.00294157557740606	-0.00527575329602085	0.00427953468913023
0.000223278017026953	0.000648597285745365	0.00297790941309936	-0.00422238511902867
-6.42116213120062e-05	0.00161676196306704	-0.00557170789761744	0.00210053236304201
-0.000485364021651436	-0.00116585627505546	0.000550837917057841	-1.83908171414189e-05
0.00128378076842217	-0.00080766755256776	-0.000723408085291317	0.00199964550591862

Eudyptes #6

1.45477100087712	0.305311628650638	-0.0825679856044462	0.415924504779862
0.00810134790558933	-0.021821204238243	0.191577258681093	0.073601206240429
0.0943147301509018	0.0263255847239243	-0.0821910115717342	0.126056572014199
0.0142733114519282	0.00456108174619807	0.0120670675041792	0.0587059385708465
0.0263398818765824	0.0103494546455036	-0.0610661784011728	0.0139936456004887
-0.00736486433289887	0.0210967623963796	0.0133885915257604	0.0114078199206399
-0.000742654051272923	0.00816525518657674	-0.00628481603986182	-0.00774922359904868
-0.0205673135521535	0.0012985386860943	0.00773913277204945	-0.00825492948812535
0.00191428729238041	-0.00115501036422719	-0.000552009320074052	0.0104971775715465
-0.00735565838566229	-0.00410669812065545	0.00530563251130335	-0.00539437122059276

A_n	B_n	C_n	D_n
0.00722801507969812	0.00115027533995857	-0.0095227214495178	-0.0042151033643707
-0.00571759525151994	0.00236810240872713	0.000783948514465632	-0.00457757745483688
0.00279498300507674	0.00313988687237292	0.00149164188389831	-0.0069434331112227
-0.00560108795782084	-0.00202337433509912	0.00344825680822934	-0.00290569219850292
0.0028380905138682	-0.00011813568840317	0.000633348190695586	0.00405270315336585
0.000779373835773957	-0.00333039712510022	0.00144727251317925	-0.00165309557023758
0.00308866121278768	0.0023888853218294	-0.00513594392044286	0.00352177084709862
0.00149836325232964	0.00121195815112728	0.00315523469697958	-0.00109686390839703
-0.000571867815493091	0.00143406824699462	-0.00326617319454752	-0.000488657386460619
-0.00123122212078983	-6.39279616386711e-05	2.30358564892357e-05	0.000353553870684774
0.000927593881811238	-0.0011457117899226	-0.000520738749018247	0.00145769176288728

Eudyptes #7

1.46694547726398	0.276702980682956	-0.0715972776414462	0.412558218111958
-0.00444651145853934	-0.0174028172008403	0.174582427315263	0.0695841520214789
0.0996299547645998	0.0223049103999127	-0.0785183485560262	0.12891919006565
0.0146065170967697	0.00163872919852296	0.0106864084478324	0.0507159176987299
0.0295439468545756	0.0117064485102573	-0.0565609325968831	0.0220117472315685
-0.00862097140003549	0.0210386677467936	0.01559358470405	0.00550956271204046
-0.00115436780354833	0.00971685486606467	-0.00425844821603515	-0.00666613585174638
-0.0199674405603361	0.00207530878188185	0.00828344179311142	-0.00291001561141028
0.000265494134515396	-0.000435298044536037	0.00283020481591502	0.0112660246659328
-0.00685533674945247	-0.00292305004878373	0.00157919840997711	-0.00560207985292187
0.00592368366538393	0.00102989651830301	-0.011348410284364	-0.00248099946051792
-0.0041395555426368	0.00476577636219758	0.000773737164890986	-0.00604632960720558
0.00180570441483765	0.00201858293800777	-0.000806865147803969	-0.00956037281325509
-0.00633229287880188	0.000512858837800873	0.00444406815395204	-0.00168312735703779
0.00269071669397266	-0.00160425334098293	0.00267796900043648	0.00104126341114086
-0.000375943115571625	-0.00267861537772396	0.000720991387200029	-0.000158066511776445
0.00436646094977677	0.00187975398411341	-0.00347333048896466	0.00469198131884001
0.00123825915316597	9.39504780102808e-05	0.00231342227598223	-0.00307490394588954
0.000189249292160169	0.00227046042268305	-0.0054480010001366	0.00158361714232089
-0.000314835831346552	-0.000355892865032448	0.00167875161462367	-0.000139326922284769
0.000386387204318659	-0.000735923000220402	-0.0011857508215479	0.000280948536053676

Eudyptes #8

1.45831077887801	0.269981828731065	-0.0696583375019862	0.435849500909979
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-0.00865552578364315	-0.0235589767048226	0.169899465060567	0.0877797216215441
0.0971612748966215	0.0159893626394639	-0.078636651023933	0.132898438674203
0.0102098892863101	0.00182051040857876	0.00665278921173145	0.0473494590063725
0.0267281378455858	0.00956339869103953	-0.0583712440528382	0.0137460151018812
-0.00735608514157776	0.0220344387167875	0.0240012237612844	0.00438873049060463
-0.00253218504647749	0.00408490647804437	-0.00397411710514689	-0.009262582758363
-0.0183542030584713	0.00490688837545114	0.00911545500830872	0.00377139512871981
0.00265333606813678	-0.00396102345460283	-0.000625560695607339	0.00952643761979857
-0.00498819509866523	-0.00106059114610456	-0.000579477901440868	-0.00837793488147828
0.00525956193911924	0.000232866213504489	-0.0118535464793844	-0.00134715703222783
-0.00426548895443959	0.00357430483602999	0.0038187567460249	-0.0106849499547216
0.00271075043021782	0.000513949754175634	-0.00168619574769388	-0.00561540568575812
-0.00499901102318565	-0.00117967477971112	0.00532788485977854	-0.00222179671176853
0.00346698333836133	-0.00195146480327277	0.0011902874456575	0.00231635697990619
-0.00036545950829427	-0.00210032648759691	-0.000615976626553611	0.00194144329412127
0.00384965138106516	0.00031039416399957	-0.00132229142211222	0.00614042962423917
-0.000682100965155396	0.000290106134274721	-0.000220478233279832	-0.00163956540737965
-0.000114288897313036	0.00124024147854379	-0.00376413821692426	0.00392315163190358
-0.00172146520673459	-0.000895420644552101	0.0014960862000789	-0.00163742394142678
4.93523137407495e-05	-0.00131389943673311	-0.00140314021971253	-0.000415140498958734

Eudyptes #9

1.48079081278767	0.257790733371857	-0.066836283533593	0.404535803326849
0.0050924788931837	0.00123571878308395	0.166080516270037	0.0578018309572937
0.0928895470558145	0.0276351618599611	-0.0772317819926882	0.122017711840825
0.0112514425329924	0.0114626029657801	0.0184493440217608	0.049519838024764
0.0217377066807385	0.00472842418752707	-0.0609602975609463	0.0272356663497299
-0.00667522866315053	0.0182599880407761	0.0116095892341974	0.0126551821380799
-0.000244106408482839	0.00649049692749767	-0.0135287908044532	-0.00327715018438292
-0.0156703559101901	0.00529918159159575	0.00609844153116513	-0.00985148039402188
-0.00348053369587838	-0.000330489355224319	0.00317415382046842	0.0079232510101914
-0.00850996677513818	-0.000260683036595713	0.00850795277890812	-0.00662641520446212
0.00194663031366125	-0.00286319022549954	-0.00589516719288891	0.000597404854080639
-0.00393391727474796	0.00389245602247798	0.00359020057298344	-0.00537210899651896
0.00259091264562645	0.000345346446007927	-0.00214864350050781	-0.00591447794384338
-0.00527639293633724	0.00260899403448965	0.003721892152377	-0.00328422260096006
0.00178318453089589	-0.000929568630401574	0.00190231455128433	0.00107345937709877

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-0.00220045647735046	-0.00104673852550727	-0.000487622787379641	-0.00376687388093213
0.00312866063752848	0.000314908631531246	-0.002460294360916	0.00662851460407748
0.000908575081758678	6.77106166407121e-05	0.000761854343740993	-0.00465393224353574
0.00121109611928829	0.00143363853265252	-0.00416586552484429	0.00161177199950342
-0.000523914933499719	0.00156017848260388	0.000853791432593598	-0.0020427359460474
6.16309558866807e-05	-0.000237215162395369	0.0016297913808855	0.000180610810047147

Eudypetes #10

1.48379555640687	0.294132863529322	-0.0701016566164982	0.388916203711959
0.000465701881482431	-0.0144440066185039	0.171305087207936	0.0739611808066268
0.0978572108249708	0.0280013522800933	-0.0800761329640944	0.121425765421078
0.0114465641303572	0.00214790216884434	0.0160981479314421	0.0546735866694198
0.0276883351171134	0.0118679681744437	-0.0586309402879687	0.0173794504692549
-0.00577599795838461	0.0196734579139842	0.0160221994356244	0.0127904304796961
0.000954997860964296	0.0111898423893955	-0.00592539388558206	-0.0105258009934726
-0.019609427494236	0.00509827059946628	0.00832187030812241	-0.00322982722371137
0.000137584462059477	0.002170546439561	0.00286099751598511	0.00961519343685982
-0.00935738063422388	-0.0034968710925604	0.00391458215697941	-0.0044230233240889
0.00562563620834329	0.00156409222750138	-0.0132414091305393	-0.00174782064267635
-0.00492008942382146	0.00136542683981371	-3.90483979340373e-05	-0.00565638956839448
0.0035158378166025	0.00438450428596201	-0.00238645965255356	-0.0102869132510126
-0.0055431663175146	-0.00148064208312962	0.00385385172306183	-0.00428652539954285
0.0016556703122365	0.00130093157921589	0.0013997801104285	0.000680413877142548
-0.000122889720208774	-0.00370268353082952	0.00242340213328016	-0.00115053524304999
0.0032210066851267	0.0013539370913803	-0.00339502365181637	0.00505728854647428
0.00201720821687843	-0.000499792825561704	0.00332039575961159	-0.000327494717652555
0.000723529531185386	0.00180665045191028	-0.00572686635697302	0.00174632618077444
4.91129685185342e-05	0.000386794131082918	0.00112842746973228	0.000780573104382102
0.000123327902318518	-0.00040875628297834	-0.001354523550799	-0.000230967011538501

Eudypetes #11

1.44899749391019	0.316125271410264	-0.0818248640683122	0.417603758702038
-0.00139105947398007	-0.0385297279402641	0.192534060384115	0.101351914673656
0.0912880537080483	0.0175944473196486	-0.0913580428540395	0.125925219510934
0.0136330172474159	-0.00133652076106698	0.00776633116710507	0.0555078455728916
0.0281824166942811	0.0116204931257175	-0.0585234155101381	0.00418044247840636
-0.0113047514848915	0.022223570877352	0.0186257352731385	0.00980995016408134

A_n	B_n	C_n	D_n
-0.00358684112708662	0.00604280617490348	-0.00305795710618789	-0.0101483175662453
-0.022862944850607	0.000400625279316429	0.00978828502822063	0.00210358217164605
0.0020307146418224	-0.00287568989258329	-0.00375021285149269	0.00980676668727886
-0.00588435777856366	-0.00460643996980335	0.0021423615469236	-0.00563267516084237
0.00589905945702407	0.00304397615031791	-0.0123609236148202	-0.00414038714512075
-0.00588552046735619	0.00239638097685066	0.00414457402946053	-0.00621148571297185
0.0011851049315049	0.00351267176195325	0.00144883297666058	-0.00712961665534479
-0.00606456411265596	-0.00307188918028287	0.00477743163273695	-0.00091215538302027
0.00256398312398166	0.000370425408969554	0.00166137741310862	0.00331626640805571
0.00104649388975085	-0.00338965710774949	0.00241168167617589	-3.35345477343449e-05
0.00289609392083111	0.00365611362209807	-0.00427855157375055	0.00433938380284411
0.00106784578383396	0.000802341411761847	0.00206877872041511	-0.00128099276148556
-0.000792790735971436	0.00246673728816979	-0.00487012104419285	-0.000701147052295051
-0.000859980561391523	-0.000210168365205506	0.00116832060781638	-0.00034733495289132
0.000660974160152365	-0.00064966161101388	-0.000589101481339472	-0.00115013833854735

Eudypetes #12

1.46066758627314	0.290236681925929	-0.0772032035798613	0.417497102031315
-0.00218930897263972	-0.019902228357988	0.184059538450254	0.0830992120207518
0.0928723274906226	0.0171697633174752	-0.0840995910364769	0.127390686835773
0.0158524377002811	0.00495024187606201	0.0125460628221387	0.0528805660346016
0.0284697824493191	0.00933703010063957	-0.0598215162943726	0.01418771748009
-0.00988007103966445	0.0223358407538918	0.0144766128198432	0.0109029516946725
-0.00211679449297029	0.00856105206649123	-0.00295330086586142	-0.00839342413977663
-0.0227245729978324	0.00148134259761373	0.00731656549477031	-0.00298358977104314
-0.000546129072463169	-0.00231664025862184	0.00156083749429481	0.0101252047302261
-0.00732169204451782	-0.00422352918196853	0.00418580646798675	-0.00467829600362678
0.00659242309035288	5.75991590101246e-05	-0.0120794097698362	-0.00383717493280575
-0.00500214574485052	0.00419464633972718	0.00249988306264412	-0.00504439868939546
0.00248753350241854	0.00330400478597809	4.52792829071093e-05	-0.00942348548232685
-0.00751243922079008	-0.000471345354016336	0.00477290408950822	-0.00131218397861354
0.00171541046967476	-0.000898406497910471	0.00083352355167193	0.00198058020023557
-1.41345929814879e-05	-0.00369971823518826	0.00257306082404158	-0.00142889986994964
0.00384232743427155	0.00202803353230187	-0.00523851502054581	0.00517686746200704
0.00206614754611453	0.000430704768383175	0.00359841803098222	-0.00227716935367766
-0.000111803684718209	0.00288545157792711	-0.00597043680236416	0.000988702668654747
-0.000300449231853517	0.000477854730102866	0.00127593150451713	-0.00110597415017725

A_n	B_n	C_n	D_n
-0.000447508121526363	-0.00095108390378141	-0.000246755416472387	0.000810854637867277

Eudiptula #1

1.51750523355672	0.263322489953544	-0.0564590981798564	0.35623828263461
0.000774425870571057	-0.00192852280721192	0.146726729262692	0.0495222538002872
0.0998467630879886	0.0207222325028286	-0.0768797027761015	0.135707576341172
0.0023707653099275	0.00355739901012578	0.0348775413403008	0.0626615633861303
0.0321797847831978	0.00284271440623974	-0.0608160380075741	0.0245936513315765
-0.00498982839627875	0.0132936888988827	0.00185755241017729	0.0163486547869092
0.00773905888570637	0.00945612816496369	-0.00907442319418475	-0.00565453464334147
-0.015968903283125	0.00767423147981395	0.00448245380077233	-0.011636213608122
-0.00115606128174741	0.000754028933768979	0.00339914094052134	0.0095653599894518
-0.0150611852977365	-0.00153703094066826	0.00971841707758597	-0.00407056991643812
0.003162979766566	-0.0035648823381698	-0.00748161088761553	0.00422336842052267
-0.00710354163995387	-0.00414133090795089	0.000368956000953389	0.000702864115547381
0.0038966744326392	-0.00048134260328755	-0.00218564795410066	-0.00333629156079309
-0.00391753659475015	-0.00180774395566874	-3.87405713999821e-05	-0.00651839009067326
0.00325296543027139	0.00125173723976859	0.00191788294868015	-0.000748424543435369
-0.00333084581746291	-0.0019012317067524	0.00271756473125389	-0.00547919683067712
0.00201338682460973	0.00240096918693899	-0.000580231730692359	0.00257904110752913
-0.000795724730962374	-0.00324370618501032	0.00309481170353017	-0.00251494701799578
-0.000582577529786987	0.00173070887156889	-0.00108825005987442	0.00253393117211953
0.000863406066346772	-0.00158918546154328	0.000781323717666888	5.56604298730007e-05
0.000272658393655046	-0.000488866473844496	-0.00125801230361056	0.00402157409891887

Eudiptula #2

1.516955862656	0.264843136866429	-0.0569162858311618	0.356082966760918
0.00191952102693115	-0.00277080120201074	0.14690877020068	0.0498175504915511
0.0993346118294236	0.0204907391744805	-0.0768775971911582	0.135533899754793
0.00207235982284504	0.00380025833424725	0.0347976004264918	0.0628934814790449
0.0325516939222491	0.00323925675145084	-0.0607043623757443	0.0244334483199641
-0.00483214150456893	0.0131404043102305	0.00177938675850256	0.0163562045463183
0.00829523702738949	0.00913359214515622	-0.00912485436696656	-0.00541569320069494
-0.0157589263678057	0.00783575711659614	0.00448079912785679	-0.0116796765491714
-0.00134959148098895	0.000674158955307039	0.00312198301546226	0.00965878026284763
-0.0152720696201462	-0.00176579450604917	0.00977063992857077	-0.00390193277686701
0.00291095663281803	-0.00348829882085257	-0.00746262640793796	0.0040586934171183

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-0.00727653035372799	-0.0041350617916626	0.000215060384650595	0.000687449639544756
0.00380541780970304	-0.000318720276559233	-0.00215659391397129	-0.00325312403351453
-0.00375040397485535	-0.00147418789719774	-5.7298957901367e-05	-0.00655271981708994
0.00336387942193602	0.00127813445433995	0.00185988732405494	-0.000659405929985916
-0.00332391945144995	-0.00213369674833269	0.00272352330497544	-0.00543520555276792
0.00189395802162386	0.00250569182187854	-0.000630406556466011	0.00250507015445024
-0.000826893302072677	-0.00324408432048336	0.00312251644458422	-0.00255044740677501
-0.000610106450326663	0.00157048543749021	-0.00108718185923496	0.00240275121004776
0.000922355132198341	-0.00152304635119835	0.000857821692237834	-4.14425049487508e-05
0.000227423742179402	-0.000425749687241206	-0.00127239860370606	0.00398128337940692

Eudiptula #3

1.51326218398684	0.240878216596285	-0.0574179832096894	0.362025618328508
0.0226905424226513	0.00102921313192906	0.133097417666054	0.0406352483685405
0.098627469295592	0.0259519166155324	-0.0742276545232824	0.137498790827346
0.00779933759122053	0.017992339023789	0.0348360619702831	0.047252310731797
0.0218878242942782	0.00465449166912753	-0.0545620873169393	0.0299584912185103
-0.00592723039405313	0.0180020368415009	0.0112188959895168	0.0152079738349467
0.00631445879329093	0.00619281684280044	-0.00749726176530928	4.42567105347246e-05
-0.0138274536241598	0.0095829670007372	0.0036618502705474	-0.0103728014342714
-0.00169370184620142	0.00113512560470054	0.00189734767598655	0.0060312000489064
-0.0113802791046019	0.00366735955206116	0.00809359740471322	-0.0078888039832657
0.00139427222113137	-0.00300407478905655	-0.00438910501508152	0.00319150104977471
-0.00738330370109993	0.00167562471943248	0.000449970630660037	-0.001314535342884
0.00362129318575899	-0.001478420597258	-0.00344031844290469	-0.00328380135651182
-0.00507074733237866	0.0013770860984584	-0.00252670878835663	-0.00436932077479078
0.00288345354733481	-0.000194595530601356	0.00262438899569296	-0.000909130014324881
-0.00299917788633112	-0.00117481489478539	-0.000381823746491098	-0.00679832280531932
0.00170521525250635	0.000675729687366419	-0.00122517268374388	0.0047484555999517
-0.000463519827257569	-0.00176811121736638	0.00265219263081491	-0.00466770976745334
0.000607959730670016	0.000499222712934926	-0.00168846590006762	0.00210833441933446
0.001026285453834	-0.000957400626913631	0.00127297495946507	-0.000169095431088797
0.000383377393066047	-0.000579193694853171	0.00142466076199918	0.00256963432003823

Eudiptula #4

1.52156687609351	0.255628675493908	-0.0550867867104803	0.350015561883554
0.00861345574398497	0.0014743579060708	0.138605254286004	0.0369139085332145

A_n	B_n	C_n	D_n
0.101336623869783	0.0317751351690585	-0.0659334365475758	0.125864765027829
0.00266036041443547	0.0107497529461147	0.0287690932842978	0.054661982800227
0.0278701209724134	0.00377666013008045	-0.0577395556734452	0.0281166422517884
-0.00863887473499989	0.0153032411988864	0.00578997779147963	0.0204537171837216
0.0069352122763404	0.00560373828736883	-0.012528257469304	-0.00472775135549579
-0.0169421314659729	0.00765293702489588	0.00359080649948762	-0.00598415431359707
-0.000569532516875934	0.00111707413362744	0.00231435395640396	0.00550656005349638
-0.0131444527795174	0.000101049333532361	0.00851901487078302	-0.00742127401850398
0.000773237585979703	-0.00212184552868372	-0.00565056341775081	0.00439414207235559
-0.00778244763105325	-0.00191548893541824	0.00356205125115819	-0.00373961241684836
0.00394377904210838	-5.67910904677448e-05	-0.00213753593775217	-0.00148745654319546
-0.0051950370458401	-0.00194752541955534	-0.000561527856350459	-0.00391989631965543
0.00361486151845425	0.00267919948435017	0.00196675473796538	-0.000469314334632936
-0.00309630512006312	-0.00259533063580231	-0.0012379854860411	-0.00714333978266492
0.00201181727640728	0.00312260725908855	0.000633398932243483	0.00345572773808007
-0.000440764646784899	-0.00296416412306026	0.00312264634261858	-0.00521403535782569
0.000456418752204528	0.0016004475207003	-0.00246234374941234	0.00360085708774553
0.00143446408195962	-0.0018108351875281	0.00120044984770995	0.000142291117025698
0.000480474037457891	0.0002132117623849	-0.00145272712915293	0.00169485960062104

Eudiptula #5

1.50646753391564	0.251874713310361	-0.0585868595588508	0.36952602906968
0.0128080498689893	-0.00559307906630542	0.145994690722873	0.051011882602068
0.0939553131079546	0.0203592478533307	-0.0818868085434293	0.134996008967733
0.00452739628129359	0.0083514774490219	0.0342559117833122	0.0578055052221436
0.0239577984443047	0.00358105103577251	-0.0556597253734137	0.0265581349707227
-0.00940734680678558	0.0118797897468694	0.0033404167775276	0.0163477341877464
0.00458251115348981	0.0063450999471054	-0.00898344134575411	-0.00076728028434345
-0.017984833726698	0.00645005160986019	0.00135442004268296	-0.00943906560242444
-0.000895632207088554	0.000452090749651565	0.00307279859111291	0.00458091604013412
-0.0159675877196561	-0.00157178284357058	0.00867020776773147	-0.00486019181404697
0.0022919487742146	-0.00329007701119853	-0.00470312224096791	0.00147283087674578
-0.00784104449351015	-0.00254214692357449	0.00319996508447088	0.00158263139299249
0.00505462733514051	0.000914297305284211	-0.00206497583836596	-0.00587382773185172
-0.00420997712262359	-0.000732294748305982	0.000667655217750317	-0.00551437459946763
0.00148061145871023	0.00344276345679369	0.00168763597446735	0.00109099081140932
-0.00168667631759596	-0.00168465273779828	0.00610789530369679	-0.00792509401525893

A_n	B_n	C_n	D_n
0.000523024141350137	0.00196290254581023	-0.00469362652780978	0.00489325991105855
0.000577585049831109	-0.00153730053862417	0.0047369611041784	-0.00280401133080548
0.000390497996683485	0.00150921088776216	-0.00270796337478295	0.00116628690752898
0.000939088803909384	-2.09386956547909e-05	-0.00109248177097165	-0.00189259385774034
0.00167392547945351	0.000181140234193251	0.0014226103694481	0.00362554177816287

Pygoscelis #1

1.47571263630465	0.275817240145104	-0.0758622381854579	0.398409677533182
0.0117724154112428	-0.00341620276852617	0.174134226409845	0.0690528411629482
0.0981870969396264	0.0334285427596849	-0.0686835135327585	0.115825973290212
0.0124431133707251	0.00918793615831661	0.0178290889646915	0.0512042446086327
0.0221018738575448	0.0155853742425181	-0.0538602877124667	0.0237654277724504
-0.00698305292881499	0.0189032630290155	0.00946560363119815	0.00696541230015442
0.00289234073963368	0.0128938833325319	-0.00905390544076442	-0.0125735877629153
-0.0170838823946819	0.00479752129815789	0.00269618963434143	-0.00805669308304429
0.00189602013463753	0.00443271437012889	0.00373930713471976	0.00132335993676792
-0.00905772823391348	-0.00337848051568676	0.00186859475852955	5.94052884496685e-05
0.00517915377136399	0.000203431982849429	-0.00964094745779075	-0.00176698902856423
-0.0034999604702709	-0.000217000628213373	-0.00292136494007963	-0.00219650925911349
0.00450690710177915	0.00150322548917563	-0.00525022860800332	-0.00849011789600027
-0.00470982120014002	-0.000999512417055483	0.00531272533201512	0.00167021919897506
0.00264162302045972	-0.000765711333826304	-0.00133737008261605	-0.00105333094495505
-0.0026473686438884	-0.00351050058526002	0.000706101819570215	0.00363650435629096
0.00295461981217738	0.0013195212592928	-0.00289046620779952	0.0032698293056449
0.00048015939331422	-0.00275730717828771	0.00612531857877781	-0.00330573878266735
-0.00110657842259462	0.00237168132054233	-0.00464481284888364	0.00468163555675878
-6.92298003390208e-05	-0.00165564720364365	0.00620511576944188	0.000238670258629135
-0.00101370748824435	0.000365873671133712	-0.00234730071728802	0.00204000856795952

Pygoscelis #2

1.49293451083993	0.26831169237039	-0.0693011119606748	0.392966878284889
0.0112036566119509	-0.0059913983009612	0.171293650483316	0.0674346742345275
0.0999444038162109	0.0303646735671074	-0.0745894793253667	0.12407356267677
0.0159021817051914	0.00641463099237596	0.016669617794779	0.047944737819864
0.0269598081878896	0.0108219934106812	-0.0588998377766522	0.0267082690827607
-0.0045369642602738	0.0160492153765858	0.0117156265004274	0.0104283539122329

A_n	B_n	C_n	D_n
0.00463160119738551	0.00822973020051239	-0.00696477420346215	-0.00872833060219959
-0.0165873946357464	0.00364230034506621	0.00260245271140054	-0.00500750881661133
0.00410332972311849	0.00301733131713707	0.0060598899241873	0.00494532072333043
-0.00753662233597452	-0.00168913301280509	0.00119034265640794	-0.00406637712135267
0.00549907224138924	0.000344597471098999	-0.00989530200848194	-0.000921079439796671
-0.00410694718432628	0.00188306461020433	0.000560630180628367	-0.00486167567980756
0.0047709017411116	0.00120031365243478	-0.00403037806021163	-0.00938080692827739
-0.00497794598311256	-0.000779763455899843	0.00539592260897326	-0.000184989232613836
0.00386195061938347	-0.000600547263783647	0.000581094862831177	8.20376262899e-05
-0.00153506294545434	-0.00288294025023757	-0.000543746240057639	0.00177536698189497
0.00370920264543186	0.00165323401907521	-0.003589803673013	0.0050832275765801
-0.000177267264269359	-0.00208796824035346	0.00175185427848623	-0.00418698817823955
0.000409913013844799	0.00211523844545587	-0.00371586970115007	0.00421002447603004
-0.000287408171727954	-0.00233454055481801	0.00250039726205426	-0.000863232725865378
0.000315934871293966	0.000332061737980782	-0.00136592284040741	0.0020918480246135

Pygoscelis #3

1.46079808867132	0.29679129925301	-0.0853856046334735	0.416300543331394
0.00856592575945042	-0.00768908658604679	0.196106357789466	0.0741092184243851
0.0924702742154303	0.0329506767832177	-0.0847946893850793	0.119513854486031
0.012994422698475	0.0105405032985721	0.0129476711959923	0.0516301159747705
0.0245582464909384	0.0131578119610836	-0.0581362003310996	0.0215771242364007
-0.0102904902271729	0.0222048866252833	0.0119871592127719	0.00538228099050357
0.00223675652394191	0.00837072879607656	-0.00554338224308059	-0.011818269661407
-0.0204649545208661	0.0043052363629381	0.00688474058642555	-0.00527131251790375
0.0027823339424126	0.000563453024512935	0.00447752027503498	0.007179479428659
-0.00698703342188923	-0.00350017631232441	0.00248578410157274	-0.00561983526142576
0.00543395611078538	0.00123773040921334	-0.0108126695438377	-0.00235569283344638
-0.0036637699200875	0.00303132920495183	0.00278522043072333	-0.00696581006790912
0.00269147961270647	0.00132782806667132	-0.0019797734336518	-0.00749563725224784
-0.00583709386594221	-0.000646892049936002	0.00411539318259771	-1.28541269666228e-05
0.00333175461137845	-0.00090461396390111	-0.000460789126401097	0.00139739291305122
-0.00110581562892484	-0.0028788513089247	-0.000700572669781451	0.00026474264821295
0.00329861225857418	0.00200903951084953	-0.0035130021039483	0.00307474569604464
0.000412238778212646	-0.00109262298240724	0.00376682268270095	-0.00245697562607956
-0.000973464594419906	0.00219954643712492	-0.00388313646305046	0.00435140853107961
-0.000201393585130129	-0.0012722154833538	0.00355937429487782	-0.000684692186923585

A_n	B_n	C_n	D_n
-0.000483379867410439	-0.000415367941658701	-0.0020801433369061	0.00165741769025762

Pygoscelis #4

1.46141110069078	0.272955328162054	-0.076334767146071	0.421597908190017
0.00150181033487796	-0.0107391090030579	0.179643601369423	0.0662920824868765
0.0994983779698955	0.0284017246229864	-0.0752908012420054	0.12899072042642
0.0180392978112245	0.00792376075237293	0.0153234822465103	0.0475357554531114
0.0243752468535927	0.0146274565890422	-0.056232117764421	0.022294854980377
-0.00698119570749524	0.0228443400837321	0.0179049046008607	0.00325155914980294
-0.000190564436430598	0.00834645914047698	-0.00552533562108209	-0.0118339647731804
-0.0174258918979696	0.00453053951413878	0.00531005318771108	-0.00325871827710599
0.00301265767099037	-0.000307708765090483	0.00154993238865144	0.00966584896791866
-0.00488770764705505	-0.00111973346789432	-0.000909857484183672	-0.00591621544392626
0.00636648871935736	0.000622491086163485	-0.0136881563323313	-0.00243089659335514
-0.00429416347705325	0.00485638973737839	0.00157492210699297	-0.00757027917967714
0.00272358750031319	-6.85969099835702e-05	-0.00078530435392325	-0.00731978522208413
-0.00598610634631273	-0.000369238558468358	0.00498485058777922	0.000720089412596129
0.00488365160917318	-0.00355282860753802	-0.000615370673968055	0.00213065074207088
-0.000990978703240286	-0.00227147090136379	-0.00197203288280905	0.000544597668952854
0.00445077104634968	0.00123784860334094	-0.00302049634848285	0.00395504649484925
-0.00122844964728747	-0.000948666499319891	0.00305207490998243	-0.00452075783103533
8.25763677109355e-05	0.00192660927705844	-0.00313839115685262	0.00620213989395327
-0.000218099169663921	-0.00259969332938913	0.00229412773767544	-0.00130461122648769
0.000403018261719776	-0.000450179714889641	-0.00143616753184974	0.00257254350925562

Pygoscelis #5

1.47393834923736	0.268089945156125	-0.0766622764020557	0.408540955295128
0.0162220355229248	-0.00322945170458964	0.180187280179506	0.0653333465102313
0.0867191660005148	0.0284060689824894	-0.0839784507111708	0.124248457774258
0.016646873473348	0.0087734897350523	0.0183508646953073	0.0495824761288747
0.0193879982113076	0.0131570111602046	-0.0544190435016843	0.0276310274851093
-0.00785679911105872	0.0185786953200114	0.010740758729201	0.00748429245325266
0.00246207663822508	0.0104772052087123	-0.00503416317221093	-0.0105423987353466
-0.0186124031786633	0.00495265970032763	0.00235375935024389	-0.00573043235294269
0.00384283177888087	0.00353936735345683	0.00628706435115323	0.00358672418394337
-0.00820541547134397	-0.0015710390304585	0.00433768843540218	-0.00501520151678181

A_n	B_n	C_n	D_n
0.0054195928103267	0.00164445203611858	-0.0129751097849763	-0.00375520053006571
-0.00301658930249738	0.0022514394192191	0.00255669396734178	-0.00531638229817437
0.00425690246574189	0.00103059881841102	-0.00411887440371476	-0.00838138708175977
-0.00447430101635678	-0.000473520094508181	0.00632865903660071	-0.00191536603132148
0.00430779393993571	-0.000116041744863891	-0.00162506118449826	0.00397464558409591
-0.000840602905674069	-0.00275242883576529	-0.000187997004913911	-0.00167886857859645
0.00400086797028024	0.00279982950259408	-0.00407243125263789	0.00730639646420103
-0.000687097944477147	-0.00248278468808469	0.00102730651490758	-0.00604351884228909
0.000848120822974369	0.00196022619190426	-0.00148740822769615	0.00612394111339818
-0.000301913605853148	-0.00221586286313337	-0.000305148986794473	-0.00164515400868338
0.00136609479507589	-0.000367325160237399	0.00139832598556206	0.00162852758574315

Pygoscelis #6

1.45930702965125	0.271440709872903	-0.0769160527696988	0.43134173277258
0.00281564583844561	-0.0103952860343312	0.186541288092738	0.0707981568621827
0.0953888270872355	0.0237014156205759	-0.080975883172021	0.127009226585273
0.0180159350724545	0.00755373882537014	0.0108538605382455	0.0433921082801487
0.023285942996908	0.012316526183392	-0.0595139636285397	0.0230726584631382
-0.0058186348085044	0.0224944600763398	0.0176321007076896	0.00338527782063463
-0.000493223179343082	0.0070693364979934	-0.0010967458558093	-0.00762816706973465
-0.017493581103735	0.00484659650891832	0.00560519882214473	-0.00634466679492407
0.00333475438158379	-0.00078296700003535	0.00212618848405611	0.0101769564365398
-0.00358676892494438	0.000861319143522921	0.000448879383863093	-0.00691864007391104
0.00625038872980087	-0.000120275044551014	-0.0144617287694865	-0.00410129312454806
-0.00395909526172306	0.00604092684429364	0.000611198505011335	-0.0081452535431841
0.00348859821788415	-0.000719537927510461	-0.000377513085274657	-0.00669446590064961
-0.00567350759990247	0.00030069681102817	0.00360339831839142	0.000160567242954145
0.00524585634186871	-0.00364499083116773	-0.000528270141273489	0.00411339399167319
-0.000888701533126243	-0.0017300202558718	-0.0018421268030942	-0.000323402588692431
0.00504138975816952	0.00161088500601218	-0.00226424411466575	0.00627151128137835
-0.000817046941175531	-0.000920839199041663	0.00273693880814724	-0.0035934980300176
-0.000266909322835881	0.00132410418945679	-0.00275716702069005	0.00563419144434721
-0.00114099206705536	-0.00217924581189931	0.00058942575806587	-0.000813623248728983
0.000476142373600679	-0.00074275360504864	0.000786605387925218	0.00152079378115994

Pygoscelis #7

1.46324398826468	0.317531711693323	-0.0884695669373082	0.404703035208516
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A_n	B_n	C_n	D_n
0.010950989456332	-0.00999221425953709	0.193322411102674	0.0749684242306495
0.0936402893822101	0.0360229837323768	-0.0758875805411052	0.114019253484696
0.0135597272587317	0.00689019227054179	0.0138435223643515	0.0531929291016752
0.025243844260942	0.016678855532326	-0.0590337666553389	0.0204966849590137
-0.00656764524917171	0.0198329355903572	0.0124039008252742	0.0083653315761921
0.000541083454368568	0.0132407248875057	-0.0074435402791916	-0.012662374191469
-0.0198200457816299	0.00241488906988123	0.00480618393960256	-0.00647222797109992
0.00128669619547084	0.00332251730587016	0.00342978910708609	0.0069383335025642
-0.0068861313195159	-0.00476232221822055	0.00339545086481042	-0.00271235944221972
0.00465486857384978	0.00280345696123009	-0.0116312129755364	-0.0032823727040351
-0.00378687402184936	0.00132135361908127	0.0017126972834697	-0.00559666334303968
0.00272884389575392	0.00307586963116586	-0.00137557352781921	-0.00981024967280418
-0.00539278897559391	-0.00164933770098047	0.00405167468299637	0.00051328610776391
0.0032913646585735	-0.000575374533773056	8.3512790113086e-05	0.000573592169772705
-0.00061692287532604	-0.00419593802833967	-0.000552747523444532	9.69171100651506e-05
0.00339339845076411	0.00252733719616648	-0.00555343043865274	0.00404467094800508
0.00148381494715838	-0.00207392753162756	0.00514315580151732	-0.00245660797995116
-0.0010978151043211	0.00237303798203018	-0.00473940826007519	0.00289233511763402
0.000419236660648154	-0.00167046352026233	0.00309860601414177	0.00092225241035723
-0.000639082002539108	-0.000654807005674294	-0.00127888778023072	0.00193613907921

Pygoscelis #8

1.45771285752997	0.264604620738806	-0.0777149444894998	0.432556958568339
0.00640694887791828	0.00604314119958984	0.198110006171746	0.0677080292370885
0.0938472280316942	0.0291393382663877	-0.0796009567018588	0.128262382788639
0.0149330489708046	0.00995992082915315	0.0104504826537478	0.0437299200239504
0.0213320996415053	0.0107726427335796	-0.0613812027026733	0.0287974797995446
-0.00888861648214086	0.0209375151436338	0.0110399738806532	0.00433605238662905
0.00266586771430122	0.00532023730645862	-0.00633951261508921	-0.0135348263027043
-0.0169084812123472	0.0037514763718535	-0.000745385376945913	-0.00969353256806892
0.00412547289269651	-0.000902801034840603	0.00296364438964665	0.00868615524490369
-0.00672958655370003	-0.000357053824212454	0.00496539524517954	-0.0056182877186341
0.00546214976996297	-0.00164355139629258	-0.00820863773611995	-0.00157495257485786
-0.00455900112202358	0.00431889734173606	0.00409512148339947	-0.00606112561263123
0.00407352615559401	-0.000746563968162665	-0.00268637122953978	-0.00411967000626464
-0.00421580506000959	0.000921671229573086	0.00411670381484315	-0.000937840197484197
0.0051666216924383	-0.00165323065857646	-0.000841194726654653	0.00301173880927996

A_n	B_n	C_n	D_n
-0.00131954416621617	-0.00116766095582421	-0.0043135547796668	-0.00329818797879918
0.00491089364195201	0.00220658413325989	-0.00226890086416538	0.00637120779805572
-0.00106444483704432	-0.00137346298897346	0.00103662365314492	-0.00562469986910278
0.000717925567373386	0.00181402895753667	-5.96916278712269e-05	0.00476487624312086
-0.000658789515675145	-0.00229674916010344	-0.000984626445661908	-0.000394321044966159
0.00115577287032143	-0.000676654501173357	0.000532644884803548	0.0021456082232044

Pygoscelis #9

1.46149421930969	0.285834613895024	-0.0742199674597683	0.412867815694313
0.00900560994470783	-0.0246896744542822	0.180679033426364	0.0754648748512033
0.0975799367953349	0.0215221289457383	-0.0851297591748534	0.121129564242555
0.0162347616488896	0.00737515932390628	0.0133256597077952	0.051645144093138
0.0281077666364842	0.0135479085644464	-0.0525192567876156	0.0117813319801479
-0.0108996535289834	0.021945256113377	0.0147871015488251	0.0121788733727568
-0.00149324937227772	0.00849032154934132	-0.00630849945477366	-0.00703725904635457
-0.0181400316265623	0.00141167325101569	0.0075788866401792	-0.00355752499702127
0.00288230630506168	0.000177062118324533	-0.000651989986234841	0.0105248342291754
-0.00573834475394083	-0.00167529782547359	0.00248632236359515	-0.00483764586550441
0.00643896438379098	0.0043575334554649	-0.0114354295470204	-0.00408249407791856
-0.0067377605879157	0.00420097729682797	0.00207856075394618	-0.0059914281657137
0.00215928232515547	0.00328385183221814	0.00417538126393158	-0.00813296480588595
-0.0065516302030516	-0.00274091213821197	0.00361055347022448	-0.00181054824674795
0.00488991657537806	0.000456792680022234	1.96139371059104e-05	0.0044279114609106
0.001821904698206	-0.00276089223817348	-0.000497968897930906	-0.00245381486916448
0.00424790403308218	0.00370106546891325	-0.00680870286377207	0.0020373474936962
0.000114873155463756	0.000631488592283608	0.00289963892436863	-0.00131666516436538
-0.000526660866928222	0.00058627778815199	-0.00322006164450375	0.000209240519833145
-0.00016701677144936	-0.00132514471989834	0.00013536185315	0.000792532243523303
0.00204778505356065	-0.00137110448206379	-0.000749691572768838	0.00137557780697367

Pygoscelis #10

1.45327261913489	0.263130801392737	-0.0726278277681216	0.439076758934809
-0.00538996366593254	-0.00991691280717221	0.185529364538891	0.0842775345082049
0.10470475986219	0.0260015146457825	-0.0790184603080693	0.127015708743096
0.0109076184301239	0.00544094487561298	0.00263511943992981	0.038700170823929
0.0233602641698625	0.0124198717467388	-0.059033928427289	0.0191585181058918
-0.00573982021228633	0.0194436993772296	0.0269039113201084	0.00209864244242657

A _n	B _n	C _n	D _n
-0.000256358997083807	0.00399493708376109	-0.00829005785313961	-0.00625860529548345
-0.0157501348583108	0.00375783882355838	0.00217188599975482	-0.00191673491146142
0.00375260327328278	-0.00191780245350438	-0.000986111000162976	0.00966336093037157
-0.00553927138456432	-0.00214937249958684	7.81805443899672e-05	-0.010529341316841
0.00507698382839259	4.53006094005191e-05	-0.00796568365751985	0.00165695460548866
-0.00338955986364245	0.00191897471685491	0.00238963320809909	-0.00978752601606077
0.00234905098706667	0.00119886527393934	-0.000711004588543579	-0.00248589406911952
-0.0043322584872105	-3.81792966812513e-05	0.00532029128979931	-0.00207007780542661
0.00287090405865904	-0.00173672477263977	0.00162320380100498	0.00186882011551725
-0.00112469178766623	-0.00192560030619527	-0.00315800643666289	0.00160724461694537
0.00369262204911305	0.000877484497203662	-0.00078822376408437	0.00582108652146217
-0.000287533994754256	-0.00058237469541671	-0.000304954362781836	-0.00303710498896813
-0.000483587230263901	0.00142305148464601	-0.0026890811036209	0.00232278501658012
-0.000872900093303383	-0.00092851854967652	0.000884598092900324	-0.00168202243601433
-0.00047876292786047	-9.38104280534674e-05	-0.000124577306551808	0.00156022376988717

Pygoscelis #11

1.48199175565684	0.249453785948501	-0.0659307294185408	0.408545395947848
0.0020647347356784	0.00337504131016307	0.165358206762706	0.0577543559035949
0.102929339154675	0.0320962881733801	-0.0715444968450042	0.124152252541133
0.0114424151411168	0.0103485817546491	0.0140769993476752	0.0398893623746818
0.021940986167867	0.0103812054052902	-0.0568340399659327	0.0319000917094299
-0.00629425296508699	0.0192169407267535	0.0157571620115744	0.010183081105352
0.00180461525957181	0.00687272902856127	-0.0120014226938931	-0.0101356653968263
-0.0164655531996221	0.00663293643550331	0.00273062676045853	-0.00578157272448557
0.0010523910148335	0.00130467426946351	0.00754309108896021	0.00573662255272689
-0.00908879023745387	-0.000333042760794258	0.00360531618219647	-0.00538558080691037
0.00398497721133881	-0.000889445045654945	-0.00769749973399553	0.00212422218318388
-0.0039456368044723	0.00322169065698047	0.000157127794997075	-0.00674745276380282
0.00328101604926835	0.000977311703641102	-0.00485664363323593	-0.00573336417280441
-0.00502624733998916	0.00277995682997312	0.00728495755745747	-0.00334813147306979
0.00243883347645241	-0.00125935571431931	0.00121530852355617	-0.00183351689750049
-0.00254023341185989	0.000365817359756823	7.21914362829311e-05	0.00127025806641761
0.00460720106580259	0.000423551948596718	-0.00184286331411285	0.00422074880170371
-0.000378550928659322	-0.000360473157854608	-5.49930211278678e-05	-0.00524402640335979
0.00206199256966487	0.00244859493822534	-0.00248399031041519	0.00423319762474374
-0.00022723201169759	-0.000893416459425458	0.00147655150857999	-0.00286016632720224

A_n	B_n	C_n	D_n
0.000682772177620766	0.00069178074991533	-0.00135924448309415	0.00387040057943398
<i>Pygoscelis</i> #12			
1.47961917184248	0.241511568598433	-0.0661886798184748	0.409485408257297
0.00695631345788134	0.00481158311277858	0.171578660658666	0.0509471241723498
0.102635257235071	0.0285368179797314	-0.070747759382284	0.113135682284781
0.00965281208994324	0.00545742925031257	0.00887415003738296	0.0437972580886886
0.0261426051409201	0.00818383236350542	-0.0560879767904896	0.0361283795598916
-0.00296990630501763	0.020145545755755	0.0122025122690485	0.00925198844695628
0.00425922665822817	0.00743109465172655	-0.0124591435491521	-0.00901435415404698
-0.0180823947399354	0.00927177355652139	0.00323179812543037	-0.00256363650221171
0.0012297107475506	0.00109837700890885	0.00845536327268846	0.00409098693515198
-0.00918252972245766	-0.000980112354955405	0.00468988701447467	-0.00505189215484327
0.00512848673236149	-0.00113965526773808	-0.00810732999763129	0.00251008461391532
-0.00206112207805381	0.00248093869237195	-0.000158832710482092	-0.00469525947536263
0.00464857008861048	0.000423800628311948	-0.00550524133446117	-0.00540253134519763
-0.00462714868168677	0.00343139003323954	0.00415081419002859	-0.00356555477769283
0.00286079304652825	-0.00192162158319977	0.000428972956535337	-0.00418258290894711
-0.00340245523643228	-0.000458457366994059	0.000647420169545531	0.00127999373872891
0.00535711665668757	-0.00118048616054084	-0.000202767973016954	0.00478537304201507
-0.000570803246278968	-0.00169494290804084	-0.0011095687470547	-0.00376724059471037
0.00321438063159816	0.00197089500576971	-0.00335345291876099	0.00517856331563237
-0.000656190791973903	-0.000599238924185789	0.00141129585486851	-0.00218391716333155
0.000163293609307728	0.000186572844438007	-0.000874572235834698	0.00330896961850658

<i>Pygoscelis</i> #13			
1.46294555588774	0.253850792699395	-0.0741553247521276	0.422314621582928
0.0176618788243107	0.00607062441903337	0.19132329113121	0.0591569377933838
0.0974305209838394	0.0313558519152871	-0.0740693396054904	0.111377959094057
0.0107987434015352	0.0133347394645926	0.00547791413429983	0.0350566732712596
0.0243145046411805	0.0117948500235843	-0.0582520493342727	0.0333436330569972
-0.00468130992537182	0.020236311389191	0.0148660168610945	0.00686632830053536
0.000890231943672356	0.00648273187375656	-0.0134688290635666	-0.00708962265579033
-0.0164791044149584	0.00806790282093357	0.00301578798380758	-0.00711777485103197
0.00197086297301745	0.00253748630317367	0.00663921998831988	0.00685517208974518
-0.00578110482118876	-1.39506191346228e-06	0.00465185481086632	-0.00967073192930137
0.00237340390695411	-0.000746114132318928	-0.0106727874988945	0.00238881878890199

A _n	B _n	C _n	D _n
-0.000997936864554759	0.00505641140288691	0.00250826283221647	-0.00598958468942745
0.00319395731100233	-0.00118689302265966	-0.00401100598969741	-0.00705302956727604
-0.0035792012673218	0.00369016239625968	0.00254221775640538	-0.00378570889601093
0.00349252190942658	-0.00303940934568694	0.001292518498183	0.000303518201966888
-0.00148368046986872	0.000894943244689442	-0.00257565130522778	0.000293653949864092
0.00514675927332924	-0.000667173126285171	-0.00247673740433911	0.00498377864364183
-0.000700900767600309	-3.31724705955082e-06	-0.00182307560358223	-0.00533256602423773
0.00132695398943768	0.00124405219187586	-0.00217973094140431	0.0058056541189732
-0.00055059130539728	-0.00120509069661549	0.00193442628072253	-0.00135666573417152
0.00054740548028758	-0.00102016576899606	-0.000415943104034452	0.00341307268063316

Pygoscelis #14

1.45835908259073	0.258317495449839	-0.0740596708418686	0.425376583428731
0.00601864792607907	-0.00298735955800097	0.193240179600156	0.0689805637290953
0.0997234577797033	0.0240039446816347	-0.0773023875654227	0.122449910063864
0.0168205601294892	0.00836861464773953	0.00365005585446413	0.0403576585602921
0.0240974911624962	0.0124233299067713	-0.0564522657707492	0.0333288398542453
-0.00423608609157963	0.0235326302559946	0.020020356099215	0.000938791445071742
-0.00152472194621952	0.00542029106320833	-0.0127711757545181	-0.011877825420424
-0.0174863138354845	0.00867996362708035	0.00623090759276399	-0.0039956493513067
0.00476122760730241	-0.00223445632697806	0.00689713490760206	0.0060609261414905
-0.00680136807121985	-6.83692077703818e-05	-0.00315901207318976	-0.00617059011358896
0.00724532531566849	-4.29848443970988e-05	-0.0106725882899493	0.00222997704498955
-0.00260038702462421	0.00479575933587782	0.00048862131479619	-0.00992005493797453
0.00319672287054121	-7.09743457172775e-05	-0.00261440067001475	-0.00448659613970812
-0.00512609111469435	0.00187620888610468	0.00515816889222121	-0.00142024592328847
0.00481398716103918	-0.00372010864252046	-0.00108264438182528	0.000769344230674406
-0.000861137432269071	-0.000327691973712975	-0.00342170449839366	0.0020010951944063
0.00674883132177203	-0.000490410399123416	-0.000737062783353558	0.00332564952986418
-0.00170344244304805	-0.000337456957480923	-0.00157625071182262	-0.00341630927505544
0.00170088893900106	0.00133689503075393	-0.000140318405872868	0.00593549072136356
-0.00116578290366558	-0.00277589996807979	0.00148203531640548	-0.00152038436656728
0.00028307222636945	-0.000550273703863469	-0.00148451431178423	0.00296321334131265

Pygoscelis #15

1.48871008194132	0.245366391907191	-0.0626465613120722	0.394913277498429
0.012886216832634	0.0117326528150713	0.168552418613948	0.0387084365246208

A_n	B_n	C_n	D_n
0.103189946883912	0.0303589857149624	-0.0628512194861635	0.11398714397857
0.0125864716941155	0.0104665126045915	0.0161424567509475	0.0347974671996561
0.025982701574542	0.00849299894407106	-0.0574071251058028	0.0424002436099228
-0.000212758731005604	0.018819500640719	0.0140645356614834	0.00867086280183971
0.00674951155931262	0.00481289033267089	-0.0203793277019141	-0.00758730967477151
-0.0143186303016531	0.0112393436975487	-0.000911286257980034	-0.00446328654552545
0.00427514375687951	0.00313001073233733	0.00995652195420997	0.00127838905271982
-0.00954890633231034	0.00183912073569808	0.00142071205515396	-0.0095465808180869
0.00290630908148496	-0.00158610802751516	-0.00537444834856339	0.00720721969542546
-0.00254805733102466	0.00309159592638079	-0.000501508395880648	-0.00430189807398958
0.00468967849100673	-0.00216912746585925	-0.00659794645150208	-0.00414145799927913
-0.00293971069809825	0.00426455630749849	0.00196072287728833	-0.00448696249397435
0.00285874608416928	-0.00213721584314986	-0.000642926411182392	-0.0032095219499049
-0.00219728759183385	0.00130908669787536	0.000338862390042856	0.00132963030993725
0.00435132001327068	-0.002297401047948	-0.000277571847641707	0.00247219757769001
-0.000730569407623092	-0.000540419830916999	-0.00337887429830161	-0.00274676153551757
0.00336677674998492	0.00092513773457237	-0.000409540086042395	0.0052250351894267
-0.000830664711038967	-0.00114599414834357	0.00154492932830528	-0.00279598509526638
0.000512564219073711	0.000873825560390284	-0.000685551095262387	0.00493495876867724

Pygoscelis #16

1.46992850197932	0.275320773042347	-0.0746557230752903	0.403226671283168
0.0178752027593909	-0.000570234031899039	0.186276285023263	0.0676155238915133
0.0954311221066275	0.0258345640441109	-0.0740265367521448	0.119922451795617
0.0112592691176074	0.0112595873986839	0.00469533390549979	0.0421708822935229
0.0287891925121475	0.00622717608642919	-0.0580879192088584	0.0305009092804793
-0.00555938085852447	0.0234107623032467	0.0168219481839101	0.00729324348676653
0.00259615434258812	0.00445661170807849	-0.0130121009708627	-0.0118082442188878
-0.0192335405118044	0.00937017870342859	0.00663755726146784	-0.000519435283591065
0.00291873687351638	-3.8118937201276e-05	0.00578167936979055	0.00665072984339762
-0.00739611070840725	-0.00183732342273001	-0.000784850118215247	-0.00823744641201942
0.00388959873319977	-0.000918862473660702	-0.0126778389235861	0.00483677895649019
-0.000658324553854758	0.00337982389994172	0.00263145384213486	-0.00893495074250561
0.00332272553442122	-0.000698214161802616	-0.00508397859291575	-0.00592080053450494
-0.00442359625522815	0.00401134091871244	0.00546838653026275	-0.00264419505136803
0.00401406149439653	-0.00237820232769343	0.00252526255206666	-0.000963109082918167
-0.00317320174634093	-0.000633548019976424	-0.000841257384885493	0.000532206829010052

A _n	B _n	C _n	D _n
0.00649472330963302	-0.00077447027813484	0.00152558448505896	0.00512506306678214
-0.00119017221919611	-0.0018338565847852	-0.00172510261370858	-0.00298079822131961
0.00338934362136947	0.00268805327869435	-0.00237831271432315	0.00661928158538204
-0.000685513098761371	-0.0020462767650558	0.000412817310833602	-0.00290902014261519
-0.000184933350872422	0.00107397219114352	-0.00270306389808522	0.00239393523785904

Pygoscelis #17

1.45396566272479	0.251311563161525	-0.0719867636612343	0.434480942841358
0.00849428536348793	-0.00157019881349103	0.188986056115006	0.0727180834109061
0.0993630699469331	0.0241323724864908	-0.0800070031306687	0.120209305339084
0.0119144059380526	0.0112804970802496	0.00218380698446103	0.041722731283299
0.0206092454997937	0.0125604525189688	-0.053833591860405	0.0318953553331172
-0.00868592190197251	0.0219361319511955	0.0222331891280589	0.00219431188104184
-0.00235772145750596	0.00356385599199186	-0.012517350988038	-0.0118486666157997
-0.0164610799266113	0.00777297357657719	0.00502825873354756	-0.0016512489733276
0.00528936209416047	-0.00132304945014783	0.00396747431224264	0.00515190993686981
-0.0055961040920894	0.000607373555768208	-0.00140037373746106	-0.0113543011288863
0.0051025927923372	0.00217419560926979	-0.0102033033604401	0.000851960151752624
-0.00369017091078998	0.00538656145445555	0.00440138112936926	-0.00924826311096639
0.00343170312680441	-0.00154687692316106	-0.000877103862316488	-0.00396709863531623
-0.0038705959941086	0.000674814587088156	0.0030955903205407	-8.27551896817156e-06
0.00662381765269927	-0.00266563618886574	-0.00221796034625453	0.00211662919772449
0.00050151423274795	0.000863066743524432	-0.00390731241757435	8.40047260795572e-05
0.00552957993721544	0.000118363020519489	-0.00152008800456522	0.0017065316055175
-0.00201018473406256	-0.000401353904762159	-0.000759807770003295	-0.00370130058761478
0.00148298625974454	0.000309525415909915	0.000766713606681537	0.00776692070811413
-0.00072945691711922	-0.00362297716489093	0.000889124150254317	-0.00118180973488654
0.000926569953398161	-0.000883770058167944	-0.00278473409917354	0.00340170147550785

Pygoscelis #18

1.47344159751782	0.249299125062996	-0.0653137115425713	0.406226070163065
0.014685667023733	-0.00151121481384896	0.178360707653331	0.0523897469552762
0.100291834247267	0.0300536654538253	-0.076388567301142	0.120076908416006
0.012959849617549	0.00948948036236716	0.0105814844721087	0.0423758206973012
0.0196621982405649	0.00895314385936143	-0.0589172644024438	0.0377561500434652
-0.0052984759788549	0.0192114874098798	0.0165238084980227	0.00861008848441145
-0.000130414052214243	0.00511948333518257	-0.0137081322156029	-0.010185921951077

A_n	B_n	C_n	D_n
-0.0162183639719199	0.00880153314668033	0.00321516231554227	-0.00564963869487258
0.00241163801932336	0.0019147717471692	0.00726434513104166	0.00348416849913483
-0.00885698788513531	0.000660156723407983	0.00306790263480949	-0.00846486560965012
0.00345736628276383	0.000463579189194345	-0.00711147235580982	0.00265076995700443
-0.00298246304746584	0.0034051315271064	0.00110328544040875	-0.00758421720619342
0.00511115760447127	0.000823165160641605	-0.00403734154444293	-0.00618556893567348
-0.00417824817227551	0.00315610935460121	0.00429129150097849	-0.002471831660173
0.00403249523839997	-0.000683423359848096	-0.000452028895581727	-0.000729096338634305
-0.00161309809240637	-3.814241311978e-05	-0.00249299034996729	0.000768364681447665
0.00544454923051995	0.000487002576028408	-0.00222941459046152	0.00409366953533299
-9.30108865522943e-05	-0.000865892052863182	-0.0011865981506322	-0.00538140023464236
0.00196887085619661	0.00197710874302367	-0.00251426647738786	0.00545165998884594
0.000229913357262378	-0.00137012884274535	0.00143618279458265	-0.00236981190679135
0.0010270247151983	-0.000579053597773356	-0.00144402460522989	0.00361321904287684

Pygoscelis #19

1.49258300697174	0.245790145628728	-0.0638095359308748	0.384438693252197
0.0214147804604179	0.00524335017477725	0.17475883714876	0.0387156274198326
0.105630019926112	0.0325006609051883	-0.0697941992330086	0.118007392100804
0.0120247221527758	0.0122420357559248	0.0194705811156722	0.0344234274662821
0.0318221720112826	0.0096991711566822	-0.0560982769701602	0.0329922902331159
-0.00412706883219134	0.0168805222865062	0.00825801098719938	0.0126447102575242
0.0125517898868395	0.00959366916299334	-0.0110983245503889	-0.00909506756542258
-0.0144618472694018	0.00784397535832025	-0.00565530820551614	-0.0070775483899019
0.00419473901390345	0.00619009870312	0.00511490525635141	0.00625940396166714
-0.00930579061679425	-0.000316773995934859	0.00408139358455854	-0.00602007969035435
0.00298199593997407	0.000231476458028353	-0.00827724847900796	0.00440656538797936
-0.00325303197875059	0.000678157878108728	0.00109489041737761	-0.00142135867050192
0.00471700137937811	0.000489769790335918	-0.00716663744602322	-0.00626064486509477
-0.00280092293422536	0.00227302453564831	0.0022871946823752	-0.00252438535429596
0.00332577204990633	-0.000140020870008529	0.000244484190281718	-0.00255072982852143
-0.00298941076181329	-2.02540550188466e-05	-0.00135387921604135	-0.00176269075478723
0.00387313824777615	-5.63293034418818e-05	-0.00152162775603734	0.00604367242463429
-0.00143011174583091	-0.00276271260396711	0.000752699726313169	-0.00512868279966988
0.00232035743938911	0.00126127405448685	-0.00248057050058199	0.00502457148718824
-0.000362123732377773	-0.00214965089284433	0.00142108049396147	-0.00082139650690402
0.000675321602674016	0.000615186992279869	0.000194303594053192	0.0024846298900136

A_n	B_n	C_n	D_n
<i>Spheniscus #1</i>			
1.48829615078205	0.266111614612443	-0.0589577161805404	0.385840519333631
-0.0102487525357351	-0.0121127436619844	0.158708043246821	0.0623471247149738
0.0986706820886044	0.019728368300496	-0.0750623015672898	0.127804205478143
0.00751025900196179	0.00265932158854587	0.0125064788186409	0.0529481122645763
0.0290564456727008	0.00463631787306334	-0.064246318699423	0.0255057568935862
-0.00924592975750213	0.0157699933008194	0.0103569092152783	0.0140482107929368
0.000167318424890578	0.00663769443670091	-0.00923418517076521	-0.00393747792421914
-0.0188727361347752	0.00306586530378922	0.00876792468454256	-0.00327073553069788
-0.00272273958337794	-0.00120111044286156	0.00209665866908037	0.0114307811499321
-0.0100460696837347	-0.00215784158466433	0.00820666851498444	-0.00386927605620427
0.00185266575556519	-0.0022525563215357	-0.00757334914804527	0.00274337587522278
-0.00687847614750846	0.00110487045536902	0.00286113147697938	-0.00541967761209615
0.00241370025921308	0.000973568578504451	-0.000214504784451158	-0.00783999218004795
-0.00616444533369715	-0.000431233934861618	0.00243740114235601	-0.00644418469770598
0.00262983279227704	0.000227466307064152	0.00444333566541868	-0.00105836258874556
-0.00166932723733775	-0.0016546895189685	0.000921940714898017	-0.00380037111744443
0.00326887866224098	0.00267958203730214	-0.0018657861465032	0.00505855299885963
-8.78852557615813e-05	0.000156004073478908	0.00327465141164797	-0.00397520560079065
-0.000405000450765066	0.0026767563945923	-0.00417546387378749	0.00164505416540228
-0.000965427326038064	-2.48530979839415e-05	0.00162277214944061	0.00199780448982516
0.000683959160519754	-0.000378846402798572	-0.00124889558718646	0.00210080144733948
<i>Spheniscus #2</i>			
1.4800307374312	0.307043971514549	-0.0708083860962542	0.385187134267202
0.00365591557043751	-0.0261614110156831	0.168694225225568	0.0762959660022249
0.0962798887154533	0.0255783779091021	-0.0821563508247579	0.132117940241418
0.0109625031936442	-0.000737273121458285	0.0196494307673043	0.0550548803314978
0.0285644472149121	0.0112949518017189	-0.0628399056190882	0.0143744804358738
-0.00761468415143466	0.0169072538477246	0.0102698349539028	0.0117497714373836
-1.95695947734048e-05	0.00866675288028089	-0.00516336460902004	-0.00804278192531104
-0.018102766098835	0.00304854190723171	0.0104975403565704	-0.00424210707726234
-0.00217546822171377	-0.00107495602649302	0.000414712964845937	0.0109994085559242
-0.00940011819766413	-0.00171902564567524	0.00690469756580242	-0.00147037467983969
0.00439788156048284	-0.00138394357930563	-0.0107140763180616	5.14992909607538e-05
-0.00721502427709272	0.000321485234004555	0.000162644213936369	-0.00350322526225137

A _n	B _n	C _n	D _n
0.00293971782548465	0.00212131580461408	-4.01559409917313e-05	-0.00891191359418588
-0.00605787844748463	-0.00188778146385013	0.00269456705267333	-0.00543944767281409
0.00300504780507239	0.000847258709281417	0.00385468777476571	-8.34190505808905e-05
-0.000482395423124229	-0.00305363668127848	0.00151998438982999	-0.00317249548273161
0.00287442202260105	0.00309673662774338	-0.00396003798980442	0.00324020170836544
0.000885049600159966	0.00045653350949246	0.00543471937954	-0.000489037573611521
-0.000995548115147245	0.00211597726587707	-0.00291844805550622	0.00010034370116533
-0.000807714284739251	-0.00030786615336242	0.00120979294604552	0.00385854186664239
0.00033716903235364	-0.000558072820136482	-0.00261336045043911	0.00249464966983477

Spheniscus #3

1.49048602089358	0.280850200494321	-0.0682956034051355	0.382207201424086
0.00668827115184855	-0.0101482735748363	0.166152626541991	0.0625691173777784
0.09129441445737	0.0194134320603741	-0.0826782830027672	0.135491186296113
0.015700435338545	0.00370539834538788	0.0236827210985272	0.0499126771355361
0.0268031126113988	0.00645395629235185	-0.062853376736319	0.028845031884522
-0.0046601993718266	0.020141556971157	0.0111108466597194	0.00727395286534403
-0.000625848990177275	0.00892508425430876	-0.00709701465126719	-0.00518396680451471
-0.0167764929291088	0.00750168047991012	0.00825055421770518	-0.00976031898138491
-0.00359882097692933	-0.00232833636604986	0.0029854236859474	0.0117742071644537
-0.0090585350530725	0.00157139379420008	0.0071628035370387	-0.00366817217562934
0.0037741536362691	-0.00418352060692747	-0.00905506674341224	0.00215215506598258
-0.00678158368621542	0.00426582629725647	-0.000211987432991918	-0.00378462576336085
0.00373117899905331	0.00108786861994611	-0.000747994996033706	-0.00758256390160001
-0.00666642539191503	0.000922837310005466	0.000202406819514066	-0.00764271108799833
0.00356483308553767	0.000278996809790899	0.00485389681630045	0.000634596115198954
-0.00184706866047557	-0.00176203869290131	0.000664478423951864	-0.00552434798506477
0.00364535335879526	0.00294585709248146	-0.00266031356367881	0.00584142668244089
0.000838971164521768	-6.68117362863974e-05	0.00369791816162784	-0.00302572011416024
-0.000597624002493735	0.00220070878002419	-0.0029380739283266	0.00150280902537359
-0.000769329832926862	3.78586401878362e-05	-0.000321013742764164	0.00204660052400802
0.00103871177237217	-0.00138697275475939	0.0012368890549802	0.00193540576523457

Spheniscus #4

1.48901888550022	0.303777586512646	-0.0691243208374681	0.365084562852975
0.0049222704732581	-0.0206512896686448	0.165039922037603	0.0669900545214004
0.0943255442437639	0.0254148028583848	-0.0770457967865385	0.133824797058702

A _n	B _n	C _n	D _n
0.0120199623466118	-0.00169113742934549	0.0268031143031807	0.0554269497294583
0.0270422496185558	0.00904608060645192	-0.0677923479401761	0.025496472705481
-0.00247701307544413	0.0165623643207736	0.00909129343259391	0.0142064638232816
0.00146040499366625	0.0102622092154134	-0.00723641834801186	-0.00784979646785693
-0.0178984080672247	0.0065401740077664	0.00787467595815495	-0.00541234472800668
-0.00480637272320492	-0.002291597995042	0.00240921967834912	0.00992860880187358
-0.00978782865833428	-0.0026145440023133	0.00764759403918923	-0.00317669470965591
0.00485959081502653	-0.00434131174733735	-0.0102247441100982	0.00275850313294213
-0.00514705299394069	0.00128205877505758	0.000724467207473554	-0.00390965793175309
0.00435225985559845	0.00186807489335722	-0.00179876672595524	-0.00964420124183588
-0.00685371199546773	0.0012627003982652	0.00276152956154478	-0.00513351539457327
0.00244077019147454	-0.000244673263510029	0.00566210612798414	-0.00152546088024251
-0.00304205988114355	-0.00256396495274968	0.0019055803440738	-0.00308436925930399
0.00439753389724919	0.00111891773660684	-0.00268036034411643	0.00466760887755076
0.000781103373808704	-0.000734336599760106	0.00364251170558571	-0.00112628043639774
0.00171778974194978	0.00302984244957859	-0.00499156265320375	0.000993868645852581
-0.000544559325828334	-9.44567656293818e-05	0.000315978207488874	0.00170108361833382
-0.000219802151331546	0.000748647336231998	-0.00174904868749176	0.0015506344662081

Spheniscus #5

1.48527040193576	0.267667063724185	-0.0646780708818175	0.395113549089705
-0.00412882191742854	-0.0113208262967377	0.158028726540487	0.0717109628890848
0.096770435476181	0.0185115423030946	-0.0784765973596474	0.134090569433319
0.00822739151086825	0.00161938177604227	0.0207774904402943	0.0534476940564647
0.0263404294665718	0.00538239237852863	-0.0619214982334535	0.0217624647410544
-0.00920802835318323	0.0173403142656535	0.00930682080735339	0.0103119979716105
0.000963944404973461	0.00638082048504351	-0.00600614294363952	-0.00605524589098966
-0.0193761075254991	0.00267243180350664	0.00840212322322791	-0.00593353177605125
-0.00451518698400011	-0.00310367935635914	0.00108366860238567	0.0109394571811739
-0.00962539693487554	-0.00188912629981968	0.00819811931202518	-0.00223228188399171
0.00338059677248548	-0.00511878739031128	-0.00980353029229522	0.00153561721260272
-0.00695047120616353	-5.00694004911031e-05	0.00056466465381885	-0.00308787734677367
0.00271933378364249	0.00033800157708022	-0.000386840280564809	-0.00633124276902565
-0.00601475835487674	-0.00084931045520983	0.00340881505228958	-0.00677358095668533
0.00263049771105051	0.00032850643905613	0.00444854848916595	0.000559337691603508
-0.00224017143737786	-0.00283414944337326	0.0021862136491182	-0.00433374023628963
0.0020605052184014	0.00263999141816629	-0.0026905339479079	0.0065218385013785

A _n	B _n	C _n	D _n
0.000404963639659388	-0.000844433181079813	0.0042661563187103	-0.00266407682032366
5.6553352620404e-05	0.00138929013212554	-0.00343512050573964	0.00162050353858203
-0.00115821993283621	-0.000978564218653142	-0.000351902833178031	0.00157796593518315
0.00131041922932895	0.000184166551681767	0.000316222883384259	0.00259711417138296

Spheniscus #6

1.47193892259567	0.293749970333756	-0.0727807819137186	0.408052652907278
-0.00783247905858932	-0.020143651874331	0.175134053705896	0.0850702229624354
0.097014012001401	0.0190677871905123	-0.083443386967758	0.139931098481713
0.0107853894757178	-0.00280907972015731	0.0199928346518331	0.0523602885312334
0.0288450610193227	0.0107506908807083	-0.0618112666752951	0.0140054451950118
-0.00834165797274054	0.0211840081744923	0.0134579148132189	0.010007403990221
0.00102641482914185	0.0079213755521926	-0.000467704547742879	-0.011022838339999
-0.0185426693137388	0.00324878332035122	0.00803560122874865	-0.0050246580897274
-0.000980568493801757	-0.00218801389575614	-0.00304100726402175	0.0140936518667314
-0.00723683228020335	-0.00147459411529083	0.00558595277353391	-0.004900236776684
0.00580352174686601	-0.00138830265411543	-0.0130116897790414	-0.00364320945909474
-0.0065920673454506	0.000841129560955604	0.00116920646246689	-0.0071369315913724
0.00339811922246879	0.0026124172215115	0.00208084005476755	-0.00609721804351867
-0.00424661663212057	-0.0022561517896758	0.00349214295060282	-0.00398265134283827
0.00419899109730777	0.000147534631814385	0.00176643055289316	0.00308181265319994
-0.0011236225515674	-0.00166077062002083	-0.000364142437070456	-0.00299734972861316
0.00350035237113549	0.00333677574410504	-0.00228743115105358	0.00501233374247597
-0.000370470945517499	-0.00097973237481617	0.00327593571449314	-0.000423425577198288
0.000184506160370435	0.000758932222450107	-0.00434257959595409	0.0018322779783182
-0.000494210015144022	-0.00180415622906318	-0.00288735511516777	0.00104296881043002
0.00207565600609891	0.000394416475975752	-0.000462804448941083	0.000861337946876956

Spheniscus #7

1.45403942729889	0.284537642750959	-0.0745697312103384	0.428804097229585
-0.00260698790904251	-0.0211906844679982	0.180798591718687	0.0817158165472305
0.0900089694828952	0.0186784375802485	-0.0866477015991883	0.143389758046949
0.0154084462825791	0.00133482984894119	0.0195248442593159	0.0465015864086937
0.0239340452061294	0.00796187621846311	-0.0629304747569059	0.0136744630634502
-0.0058992000316142	0.0214430361184252	0.0165812567678555	0.0037716989851704
-0.00213804891807127	0.00624023191306464	0.000142520245712664	-0.00739536885590834
-0.0164478109918306	0.004990301282975	0.0076297691940003	-0.00681222400773837

A_n	B_n	C_n	D_n
-0.00189987453903555	-0.00344903344947456	-0.00378151061099954	0.015697730611284
-0.0062879212994655	0.000862309239781115	0.0042683099527594	-0.00566183388830501
0.00479153949186268	-0.00279610935136462	-0.0120510106324415	-0.00316047032560333
-0.00525831203394795	0.00202603662839806	0.000538065942577654	-0.0077583397667713
0.00334576585507131	-4.51710897102219e-05	0.00135856800607737	-0.00542649761297061
-0.00275135811280668	-0.00109665931028575	0.00257502633276499	-0.00437102499146273
0.00513721521847898	-0.00019159053676531	0.00221693007596385	0.00302794375155592
-0.000197267562705767	-0.000294894308320093	-0.00111273955999771	-0.00418384354095302
0.0029235498875319	0.00259963525165155	-0.00204563322372019	0.00655835799402509
-0.0007739985964792	-0.000804156112460146	0.00357526719231616	0.000120615852587036
0.000116037769149641	-0.000437322362226623	-0.00273077060494853	0.00313905020613377
-0.000341539839753968	-0.00137008620937198	-0.00362375194477027	0.00061530338669277
0.00230454231344675	-0.000768407140440733	-5.57861484168452e-05	0.00116015610661023

Spheniscus #8

1.48313884505367	0.280202933499213	-0.063723131086529	0.389747372224047
-0.00683287160166376	-0.0213580979519582	0.161411778324284	0.0593959526994621
0.0975073546805133	0.0230997691187482	-0.0556229198442869	0.145078576162211
0.0106471157722275	-0.00300843124537745	0.0204473397736293	0.0394200179060089
0.0330647969839248	0.00857769021598699	-0.0680881585744972	0.0201374091884811
0.000365342255523794	0.0172682710860749	0.00456153462070206	0.00463352884419476
0.00533657046109403	0.00784040490700406	-0.0138928443827313	-0.0129100145469907
-0.0125982141100608	0.00569664152894058	0.00213253536408479	-0.00342390646271583
-0.000936232776168332	-0.00561230910906511	-0.000701015397003998	0.0142090553701859
-0.00860005105950173	-0.00168997149524812	0.00346911651365868	0.00117520182599558
0.00598012057668222	-0.00708704101041362	-0.00713034629086287	0.00966594542657849
-0.00767542908132154	-0.000300044195004659	0.00121055517997911	-0.00136359158483708
0.00428653182939752	-0.000403380343693094	-0.000482704277311634	-0.00362504618618107
-0.00720764553061974	-0.000597505099211252	0.00154505289042701	-0.00296119106981469
0.00223276309359136	-0.000510063692287045	0.00742689214075331	-0.0022302199845498
-0.00393118560708438	-0.00195625025051293	3.51869667045433e-05	-0.00463018669227967
0.00318216913874499	0.000835092648023065	0.00250664562351394	0.00460567422514299
-0.00133047728205291	-0.000395912035936362	0.00467898813014828	-0.00305916071564706
0.000813687330861476	0.00207759736962748	-0.00223762052857739	0.00103259536123142
-0.0017090943788747	5.21452202692111e-05	0.00144705352204002	0.00149477436404169
0.000108000902474049	0.000313636921446304	-0.00111156249197955	0.000365471252928022

A_n	B_n	C_n	D_n
<i>Spheniscus</i> #9			
1.46799152294685	0.267298204101173	-0.0630938818418324	0.418783446341528
-0.0197636141537226	-0.0132472458366059	0.168656714687407	0.0776251856897258
0.096066195251045	0.0145773166555789	-0.0785327468133225	0.14520915288896
0.0132434480417027	0.000174829459875409	0.015635414151128	0.046007457505732
0.0258047538673059	0.00679765034353534	-0.0649742739242877	0.0192685227608093
-0.00767652696745451	0.01930282394079	0.0139164508128956	0.00387118997911342
-0.000271483895760818	0.00477740572423636	0.00178110703934896	-0.00623257772726311
-0.0178305470567776	0.00482830442874101	0.00616136706066897	-0.00435461900250394
-0.000251968830586638	-0.00444201650889712	-0.000685085825409739	0.01488191242975
-0.00838351068538126	0.000883556747910579	0.00201910313496692	-0.00567803367198183
0.00518308253779261	-0.00289502968197572	-0.00906004372940557	-0.00269417987600774
-0.00696375973687019	0.00224168055580901	0.00115883674702804	-0.00838955603499592
0.00375082305532567	-0.000186170731012805	0.00223007032710329	-0.00449128270916597
-0.00382373045324651	-9.93301278810174e-05	0.00284749741394753	-0.00346826751428457
0.00489527449775196	-0.000331341780858818	0.00286513898297854	0.00185023212729256
-0.0011928151729509	0.000177553331513279	-0.00181293678015442	-0.0032879229676025
0.0033213867423184	0.00220379284726101	-0.000721321010664557	0.00590322220446851
-0.000986506463330192	-0.000371172360880525	0.00189766949521562	-0.0007499495983276
0.00128365431811053	-0.000193670854033026	-0.00361247749712493	0.00280516688592866
-0.000372210867111407	-0.000721415578761058	-0.00369927570696537	0.000526085709857051
0.00279816194205809	6.9275376881758e-05	-0.000461939570741903	-0.000817188233259693
<i>Spheniscus</i> #10			
1.490954177317	0.298114519380764	-0.0657993359062426	0.381860848523302
-0.00937918101358011	-0.0214369947451755	0.156550343550185	0.0685632248787221
0.0965115186630464	0.0231497331396374	-0.0746584445022268	0.133618806580665
0.0102000204392939	-0.00159076013275939	0.0236020210948743	0.0577741226471326
0.0314159658463741	0.00891885058917672	-0.0609425273456765	0.019416383826986
-0.00840876182481776	0.0174995743408421	0.0110590347263565	0.0128054190966506
0.00262628485237306	0.0109469239397535	-0.00197824247511145	-0.00837543026266444
-0.0173969846218221	0.00286892050690653	0.0101874405245531	-0.00379475368435491
-0.00202485114510343	1.51079920725157e-05	-0.000269749612793963	0.0110112319624778
-0.00730619617425657	-0.00113117541127325	0.00409960141025693	-0.00303836251971243
0.00398726597533422	-0.00093854974583551	-0.0130208261967396	-0.00276320106340764
-0.00602794560328262	0.0019985800413906	0.000931736772155008	-0.00692529300441942
0.00200111942423164	0.000867137366268426	-0.00172942175717682	-0.00953096400335424

A_n	B_n	C_n	D_n
-0.00521276576348799	-0.00139389327296214	0.00296582127220421	-0.00303392012917327
0.00417840122530608	-0.0010777279446088	0.00292273827718368	5.92291639887154e-06
-0.000328639672154422	-0.00225956264748141	3.08351853403105e-05	-0.00197549976515691
0.00426854272639413	0.00257040440792204	-0.00205124493938959	0.00491786832524809
-0.000475506483246261	0.000287719898015221	0.00416180589752662	-0.000434008148720393
0.000168083147290769	0.00135015334498516	-0.0034518801625036	0.0021332781243583
-0.00133459490296213	-0.00149880243800391	0.000236539165334382	0.00292878378705789
0.0010465968879555	-0.000996994304139473	-0.00232280459523141	0.000385019701855046

Spheniscus #11

1.47911916267488	0.283844212799194	-0.0668731301839951	0.394535919055697
-0.00141332660274381	-0.0205777397486545	0.160855947418749	0.0731023129543752
0.0982033223823256	0.0230023065595309	-0.0741497819702117	0.134160045678949
0.00684187783087008	-0.000795565496717657	0.0174271004396655	0.0532490998169686
0.0271924713431766	0.009391379039035	-0.0605508995716368	0.022750340435118
-0.00901969076749659	0.0171977116816896	0.0129420768516915	0.0129700753843018
-0.000378053437525906	0.00644552406877754	-0.00532632461912416	-0.00992794685453294
-0.0191333463115956	0.00361041907192073	0.00787347646397408	-0.00281338792709967
-0.00162184921447351	-0.00245269908869769	0.000838616726313908	0.00993725295278442
-0.008406022455309	-0.00174760577747658	0.00516011852797698	-0.00490300171958762
0.00429045824109627	-0.0026378587335987	-0.0104497315771827	-0.00261499076492284
-0.00607910756936809	0.00211004827643571	0.00227632487248213	-0.00480704723861055
0.00325581240446516	0.000683239061235158	-0.000404359744508506	-0.00912969139625568
-0.00478863066899596	-0.000790097377684418	0.00414098943860818	-0.00318925534793524
0.00355328242317606	-0.000494064676159753	0.0024651313940659	0.000615706760771833
-0.00076598166781264	-0.00145363264234578	-2.33741061165168e-05	-0.00165796523572858
0.00386427649242302	0.00214888848576549	-0.00265624527376942	0.00514036808609054
-0.000117371004323787	-0.000177229543505752	0.00387652589184491	-0.00169814770526725
0.000118575024824781	0.00102155008243817	-0.00463700357455186	0.00233596517315932
-0.00036181583250905	-0.00106744300517636	0.000729491113455235	0.00262464388371646
0.00149448217297771	-0.00131327013140294	-0.00225197753317868	-6.84836754728797e-05

Spheniscus #12

1.48230415218863	0.288779264304152	-0.0635766144919624	0.388764492674818
-0.00860907572473554	-0.0245066926226376	0.168558477779721	0.0758249912441239
0.0978467810078409	0.0199931827889252	-0.0795939061972246	0.141330708045883
0.0137303733449325	-0.000977075250048118	0.0165135226297618	0.0496959147185974

A_n	B_n	C_n	D_n
0.030887709618164	0.00912731652421194	-0.0625164366103396	0.0179405409378526
-0.00780762132014933	0.0198462489777343	0.0125587289275484	0.0124800503769769
-1.11040037332562e-05	0.00771412856710179	-0.00336577274124064	-0.00944590527097266
-0.0177937806662309	0.00294874582101958	0.00745249492876153	-0.00269066911611758
-0.0012245167274198	-0.00290138372812013	-0.0003981056618134	0.0123466182021696
-0.00602721866134313	-0.00216629712251497	0.00467158296784901	-0.00594721871066075
0.00543286399328185	-0.00125080601329744	-0.011799454003155	0.000305880041861719
-0.00500126538536021	0.00265224569988552	0.00321990760048938	-0.00687139113513942
0.00211139002621287	0.00172253187199275	-0.00158125186204813	-0.00820161945318198
-0.00482297486564502	-0.000429996798397817	0.00409600057770472	-0.00359572762056726
0.00293229968956735	-0.00103772185133318	0.00272361607121647	0.000114125490967613
0.000381127991342784	-0.0017088671742637	0.00060724801360113	-0.00216307651407521
0.00362943074918315	0.00240115108171957	-0.00254246514197288	0.00642731916511645
0.000581476443242601	0.000531190301176755	0.00311216328448903	-0.002068830232165
1.049998997923e-05	0.00202082670196291	-0.00507064848989222	0.00291917840158334
-0.000632529949029837	-0.00066716164000391	-0.000193303031884485	0.000922431876348462
0.000403811676596092	-0.000875198139998236	-0.00195323073332382	0.000184005993393569

Spheniscus #13

1.48680447540514	0.284552752184906	-0.0663678046471957	0.38414202313684
0.00612849507852193	-0.0134137544914843	0.167587793228642	0.0698795080192269
0.0933898063767408	0.0234261028578134	-0.0797054006639832	0.124192120199632
0.00752786783778538	0.00131499720118417	0.0217404584373915	0.055703434709055
0.0271369305541981	0.00694522898136692	-0.0664986393107529	0.0198786062418712
-0.00680040892712307	0.0140961291077325	0.00541185328589557	0.0116658816371279
0.00240745008949895	0.00846771242647308	-0.00863782971718795	-0.00571870306956329
-0.0184681370627772	0.00276439059911313	0.00674594284300907	-0.00477863770985484
-0.00288660821331082	-0.00110928130362582	0.00120689423900316	0.0120829306104834
-0.0112128202549919	-0.00385258543518575	0.00811535250226878	-0.00121377853673531
0.00337514575662074	-0.00288766053814553	-0.00785949690930473	0.00230666560269148
-0.00673219241742029	-0.000948064030523244	0.00218877430605356	-0.00216264930312809
0.00337287248242841	0.00180687148201993	-0.000403020061183817	-0.0081499294147913
-0.00557406758162725	-0.000638013216856491	0.00326571233817875	-0.00610693507856154
0.00223391019793903	0.00181913522068203	0.00504388005393864	-0.00139569314043833
-0.00186047418893426	-0.00211275865902107	0.00395846011315865	-0.00466211488335217
0.00214876012032134	0.00271179683742394	-0.00301182952314517	0.00484839255395777
0.000575949133621152	-0.000247922792507648	0.0046358867585783	-0.00147239413125584

A _n	B _n	C _n	D _n
0.000186079376963537	0.0025384803251877	-0.00402681382195115	0.00039485269467415
-0.000794948498056025	0.000129172796197693	-0.000445564802058096	0.00062874490569475
0.000862387528592438	0.000898950521753426	-0.00112452449520243	0.00248035283418205
<i>Spheniscus</i> #14			
1.45873961165573	0.286504996206892	-0.0722754667258111	0.422389156358167
-0.00360115797509344	-0.0231757471192138	0.178368253329131	0.0782400580515107
0.0928023504442453	0.022149086822549	-0.084467422234646	0.132621677545246
0.00997973387528149	0.00248455646521189	0.0139399070931353	0.0517380120464421
0.0254581402180664	0.00929678244719588	-0.0610808221268638	0.0137642257580557
-0.00913539200148471	0.0200752814720974	0.0137173759299058	0.00805491592261258
-0.00199937647648499	0.00551039568021546	-0.00199100351359918	-0.0060667777707438
-0.0195218319287163	0.00279663784242295	0.00723562834994699	-0.00142860775770096
5.06238064666496e-05	-0.00321370749019882	-0.0024661780307086	0.0126905686189484
-0.0066197651879178	-0.00193458594719141	0.00466356974735675	-0.00651576856171966
0.00468162722328077	-3.67470109430443e-05	-0.0105062598741509	-0.0030182801869335
-0.00590613201907471	0.00196363523754768	0.00467797431536837	-0.00787860547313642
0.00174025120068868	0.00229189112422642	0.00147789188939054	-0.00739017893171669
-0.00365212085598085	-0.00232845922169145	0.00465321718169396	-0.00544679206387495
0.0030951743591573	0.00071153595938636	0.00140976078280528	0.00325110220309982
0.000595222790176088	-0.00191067013363468	0.000109966450301443	-0.00247072644091391
0.00277569892200805	0.00322746502148963	-0.00388565187033814	0.00612611798272854
0.000671612427980765	-9.85149287363294e-05	0.00225946546514549	-0.00153616647180983
-0.000802377726996604	0.00216604149405081	-0.00549401391259588	0.00271415347251074
-6.27301242119392e-05	-0.00110716916163245	-0.000332179946170347	8.00782795543402e-05
-2.34231589819415e-05	-0.000180585801061088	-0.000202192864433009	0.000720729937971342

Supplementary Table S4. Results of the pairwise multivariate analysis of variance on principal component scores for differences between (at least some) group/genus centroids.

Comparison	Df	Pillai	Approx. F	num_Df	den_Df	p
<i>Aptenodytes–Eudyptes</i>	1	0.7878	11.88	5	16	6.345e-05
<i>Aptenodytes–Eudyptula</i>	1	0.9847	115.61	5	9	6.944e-08
<i>Aptenodytes–Pygoscelis</i>	1	0.7482	13.67	5	23	2.981e-06
<i>Aptenodytes–Spheniscus</i>	1	0.9416	58.00	5	18	1.808e-10

<i>Eudyptes–Eudyptula</i>	1	0.9478	39.93	5	11	1.092e-06
<i>Eudyptes–Pygoscelis</i>	1	0.6769	10.48	5	25	1.656e-05
<i>Eudyptes–Spheniscus</i>	1	0.7801	14.19	5	20	5.366e-06
<i>Eudyptula–Pygoscelis</i>	1	0.9108	36.75	5	18	7.801e-09
<i>Eudyptula–Spheniscus</i>	1	0.8896	20.96	5	13	8.364e-06
<i>Pygoscelis–Spheniscus</i>	1	0.9051	51.49	5	27	5.794e-13

Supplementary Table S5. Posterior probabilities for a testing set ($n = 20$; order of specimens as in Supplementary Table S2). Misclassifications are underlined.

	<i>Aptenodytes</i>	<i>Eudyptes</i>	<i>Eudyptula</i>	<i>Pygoscelis</i>	<i>Spheniscus</i>
<i>Aptenodytes forsteri</i>	0.9921	0.0079	0.0000	0.0001	0.0000
<i>Aptenodytes patagonicus</i>	0.4590	<u>0.5095</u>	0.0000	0.0315	0.0001
<i>Aptenodytes patagonicus</i>	0.9961	0.0004	0.0000	0.0035	0.0000
<i>Eudyptula minor</i>	0.0000	0.0000	0.9771	0.0000	0.0228
<i>Eudyptula minor</i>	0.0000	0.0000	1.0000	0.0000	0.0000
† <i>Eudyptes warhami</i>	0.0062	0.9867	0.0000	0.0037	0.0034
<i>Eudyptes chrysolophus</i>	0.1086	0.3987	0.0000	<u>0.4927</u>	0.0000
<i>Pygoscelis</i> sp.	0.0000	0.0130	0.0000	0.9870	0.0000
<i>Pygoscelis</i> sp.	0.0000	0.0000	0.0000	1.0000	0.0000
<i>Pygoscelis</i> sp.	0.0003	0.0026	0.0000	0.9971	0.0000
<i>Pygoscelis</i> sp.	0.0000	0.0001	0.0000	0.9999	0.0000
<i>Pygoscelis</i> sp.	0.0000	0.0028	0.0000	0.9972	0.0000
<i>Pygoscelis</i> sp.	0.0001	0.0000	0.0000	0.9999	0.0000
<i>Pygoscelis</i> sp.	0.0000	0.0014	0.0000	0.9986	0.0000
† <i>Spheniscus chilensis</i>	0.0000	0.0000	0.0021	0.0000	0.9979
<i>Spheniscus demersus</i>	0.0000	0.0000	0.0002	0.0000	0.9998
<i>Spheniscus demersus</i>	0.0000	0.0011	<u>0.6971</u>	0.0000	0.3018
<i>Spheniscus humboldti</i>	0.0000	<u>0.6030</u>	0.0000	0.0000	0.3969
† <i>Spheniscus urbinai</i>	0.0000	0.0129	0.0000	0.0000	0.9871
† <i>Megadyptes waitaha</i>	0.1235	0.8592	0.0000	0.0173	0.0000