

Corrections were made after publication.

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This corrected version: April 14, 2021

**Table S1.** Additional data for museum specimens used in the geometric morphometric analyses. For each voucher specimen, the following information is provided: KU:KUIT = The University of Kansas, The Biodiversity Institute, Ichthyology Division, OSU:COV= Oklahoma State University, Collection of Vertebrates, Species = scientific name; *N* = number of specimen under the accession number (= lot size); Basin = river basin from where specimen was collected; River = name of river where specimen was collected; Latitude/Longitude = geolocation coordinates for collection site.

Voucher #	Species	N	Basin	River	Latitude (°N)	Longitude (°E)
KU:KUIT:27813	<i>S. macrophthalmus</i>	23	Karnali	Lake Rara	29.5333	82.0667
KU:KUIT:27812	<i>S. macrophthalmus</i>	24	Karnali	Lake Rara	29.5333	82.0667
KU:KUIT:29237	<i>S. macrophthalmus</i>	35	Karnali	Lake Rara	29.5333	82.0667
KU:KUIT:27811	<i>S. nepalensis</i>	18	Karnali	Lake Rara	29.5333	82.0667
KU:KUIT:29234	<i>S. nepalensis</i>	8	Karnali	Lake Rara	29.5333	82.0667
KU:KUIT:29234	<i>S. nepalensis</i>	1	Karnali	Lake Rara	29.5333	82.0667
KU:KUIT:27807	<i>S. raraensis</i>	12	Karnali	Lake Rara	29.5333	82.0667
KU:KUIT:27814	<i>S. raraensis</i>	41	Karnali	Lake Rara	29.5333	82.0667
KU:KUIT:29238	<i>S. raraensis</i>	6	Karnali	Lake Rara	29.5333	82.0667
KU:KUIT:29614	<i>S. progastus</i>	1	Karnali	Lower Karnali	29.0280	81.1819
KU:KUIT:29595	<i>S. progastus</i>	1	Koshi	Arun	26.9300	87.3133
OSU:COV:17109	<i>S. progastus</i>	7	Karnai	Lower Karnali	29.0280	81.1819
KU:KUIT:28780	<i>S. progastus</i>	1	Karnali	Lower Karnali	28.3999	81.1999
KU:KUIT:28666	<i>S. progastus</i>	4	Koshi	Mahakali	29.0816	80.1417
KU:KUIT:27884	<i>S. progastus</i>	21	Koshi	Karnali	29.5217	81.7800
KU:KUIT:27807	<i>S. richardsonii</i>	8	Karnai	Lake Rara	29.5333	82.0667
KU:KUIT:27810	<i>S. richardsonii</i>	10	Karnai	Nijar	29.5216	81.9300
KU:KUIT:27885	<i>S. richardsonii</i>	12	Karnai	Mugu Karnali	29.5533	82.1699
KU:KUIT:29560	<i>S. richardsonii</i>	11	Karnai	Lower Karnali	29.6483	81.805
KU:KUIT:29043	<i>S. progastus</i>	3	Koshi	Kaligandaki	28.3403	83.5692
KU:KUIT:29036	<i>S. progastus</i>	3	Gandaki	Kaligandaki	27.9355	83.4399
KU:KUIT:28998	<i>S. progastus</i>	1	Gandaki	Kaligandaki	27.9200	83.6800
KU:KUIT:27815	<i>S. progastus</i>	1	Gandaki	Kaligandaki	28.3403	83.5692
OSU:COV:15608	<i>S. progastus</i>	6	Gandaki	Gandaki	27.7037	84.4248
OSU:COV:15709	<i>S. progastus</i>	7	Gandaki	Kaligandaki	27.9372	83.4423
OSU:COV:15722	<i>S. progastus</i>	5	Gandaki	Kaligandaki	27.9372	83.4423
KU:KUIT:29018	<i>S. progastus</i>	6	Gandaki	Kaligandaki	28.1533	83.6367
KU:KUIT:29024	<i>S. progastus</i>	2	Gandaki	Kaligandaki	28.0640	83.5607
KU:KUIT:29028	<i>S. progastus</i>	11	Gandaki	Kaligandaki	27.9783	83.5850
OSU:COV:15731	<i>S. progastus</i>	19	Gandaki	Kaligandaki	27.9372	83.4423
OSU:COV:15892	<i>S. progastus</i>	10	Gandaki	Kaligandaki	27.9372	83.4423
OSU:COV:16349	<i>S. progastus</i>	7	Gandaki	Kaligandaki	28.3403	83.5692

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OSU:COV:16755	<i>S. progastus</i>	15	Gandaki	Kaligandaki	28.1753	83.6396
OSU:COV:16928	<i>S. progastus</i>	5	Gandaki	Kaligandaki	27.9372	83.4423
OSU:COV:16948	<i>S. progastus</i>	5	Gandaki	Kaligandaki	28.1753	83.6396
OSU:COV:16763	<i>S. progastus</i>	1	Gandaki	Kaligandaki	28.3403	83.5692
OSU:COV:16733	<i>S. progastus</i>	2	Gandaki	Kaligandaki	27.9372	83.4423
OSU:COV:17464	<i>S. progastus</i>	1	Gandaki	Gandaki	27.7037	84.4248
OSU:COV:16693	<i>S. progastus</i>	1	Gandaki	Kaligandaki	27.9783	83.5850
OSU:COV:16685	<i>S. progastus</i>	1	Gandaki	Kaligandaki	27.8996	83.6333
OSU:COV:16733	<i>S. progastus</i>	4	Gandaki	Kaligandaki	27.9372	83.4423
OSU:COV:17505	<i>S. progastus</i>	2	Gandaki	Kaligandaki	27.9372	83.4423
OSU:COV:16758	<i>S. richardsonii</i>	1	Gandaki	Modi	28.2026	83.6699
KU:KUIT:29050	<i>S. richardsonii</i>	6	Gandaki	Kaligandaki	28.6840	83.6123
KU:KUIT:27887	<i>S. richardsonii</i>	5	Gandaki	Kaligandaki	28.4000	83.5667
KU:KUIT:29044	<i>S. richardsonii</i>	6	Gandaki	Kaligandaki	28.4318	83.6007
KU:KUIT:27886	<i>S. richardsonii</i>	2	Gandaki	Kaligandaki	28.3403	83.5692
KU:KUIT:29042	<i>S. richardsonii</i>	4	Gandaki	Kaligandaki	28.3403	83.5692
KU:KUIT:29023	<i>S. richardsonii</i>	5	Gandaki	Kaligandaki	28.064	83.5607
KU:KUIT:29039	<i>S. richardsonii</i>	1	Gandaki	Kaligandaki	27.9355	83.4399
KU:KUIT:29624	<i>S. richardsonii</i>	1	Gandaki	Setigandaki	28.0333	84.0667
KU:KUIT:28989	<i>S. richardsonii</i>	1	Gandaki	Kaligandaki	27.8996	83.6333
OSU:COV:15923	<i>S. richardsonii</i>	22	Gandaki	Kaligandaki	28.6841	83.6148
OSU:COV:15924	<i>S. richardsonii</i>	8	Gandaki	Kaligandaki	28.6841	83.6148
OSU:COV:16765	<i>S. richardsonii</i>	1	Gandaki	Kaligandaki	28.3403	83.5692
OSU:COV:16774	<i>S. richardsonii</i>	3	Gandaki	Kaligandaki	28.4961	83.6545
OSU:COV:16775	<i>S. richardsonii</i>	3	Gandaki	Kaligandaki	28.4961	83.6545
OSU:COV:16348	<i>S. richardsonii</i>	2	Gandaki	Kaligandaki	28.3403	83.5692
OSU:COV:16766	<i>S. richardsonii</i>	1	Gandaki	Modi	28.2026	83.6699
OSU:COV:15922	<i>S. richardsonii</i>	2	Gandaki	Kaligandaki	28.7820	83.7250
OSU:COV:15921	<i>S. richardsonii</i>	1	Gandaki	Kaligandaki	28.8457	83.7859
OSU:COV:16778	<i>S. richardsonii</i>	1	Gandaki	Kaligandaki	28.7129	83.6567
OSU:COV:16353	<i>S. richardsonii</i>	2	Gandaki	Kaligandaki	28.6841	83.6148
OSU:COV:16779	<i>S. richardsonii</i>	3	Gandaki	Kaligandaki	28.6841	83.6148
OSU:COV:16780	<i>S. richardsonii</i>	1	Gandaki	Kaligandaki	28.6841	83.6148
OSU:COV:16766	<i>S. richardsonii</i>	2	Gandaki	Modi	28.2026	83.6699
OSU:COV:16769	<i>S. richardsonii</i>	2	Gandaki	Kaligandaki	28.3754	83.5750
OSU:COV:15732	<i>S. richardsonii</i>	4	Gandaki	Kaligandaki	27.9372	83.4423
OSU:COV:15710	<i>S. richardsonii</i>	3	Gandaki	Kaligandaki	27.9372	83.4423
OSU:COV:15891	<i>S. richardsonii</i>	1	Gandaki	Kaligandaki	27.9372	83.4423
OSU:COV:16929	<i>S. richardsonii</i>	3	Gandaki	Kaligandaki	27.9372	83.4423
OSU:COV:16351	<i>S. richardsonii</i>	1	Gandaki	Kaligandaki	27.9372	83.4423

KU:KUIT:29527	<i>S. progastus</i>	4	Koshi	Arun	27.2716	87.2082
KU:KUIT:27808	<i>S. progastus</i>	9	Koshi	Arun	27.2716	87.2082
KU:KUIT:29539	<i>S. progastus</i>	2	Koshi	Arun	27.2133	87.2399
KU:KUIT:29233	<i>S. richardsonii</i>	11	Koshi	Khokta Khola	27.5517	87.3016
KU:KUIT:40564	<i>S. richardsonii</i>	38	Koshi	Melamchi	27.8284	85.5769
KU:KUIT:29521	<i>S. richardsonii</i>	2	Koshi	Arun	27.3199	87.2082
KU:KUIT:29528	<i>S. richardsonii</i>	2	Koshi	Arun	27.2716	87.2082

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**Table S2.** List of 89 cytochrome *b* gene haplotypes detected in a sequence analysis of 115 tissue samples of *Schizothorax collected* from the Himalayas in Nepal. For each haplotype, the following information is provided: Species = scientific name of sample; Basin = major river drainage where sample was collected; Latitude/Longitude = geolocation coordinates for collection site; NCBI # = GenBank accession number for haplotype associated with tissue sample, KU:KUIT = University of Kansas, The Biodiversity Institute, Ichthyology Division.

Haplotype	KU tissue collection #	KU Voucher #	Species	Basin	Latitude (°N)	Longitude (°E)	NCBI #
Hap_1	KU:KUIT:1978	KU:KUIT:27808	<i>S. progastus</i>	Koshi	27.34	87.1883	MW479760
Hap_2	KU:KUIT:1977	KU:KUIT:27808	<i>S. progastus</i>	Koshi	27.34	87.1883	MW479761
Hap_3	KU:KUIT:1976	KU:KUIT:27808	<i>S. progastus</i>	Koshi	27.34	87.1883	MW479762
Hap_4	KU:KUIT:1974	KU:KUIT:27808	<i>S. progastus</i>	Koshi	27.34	87.1883	MW479763
Hap_5	KU:KUIT:1975	KU:KUIT:27809	<i>S. progastus</i>	Koshi	27.34	87.1883	MW479764
Hap_5	KU:KUIT:1994	KU:KUIT:27806	<i>S. progastus</i>	Gandaki	28.4	83.5667	MW479765
Hap_6	KU:KUIT:1993	KU:KUIT:27806	<i>S. progastus</i>	Gandaki	28.4	83.5667	MW479766
Hap_7	KU:KUIT:8829	KU:KUIT:27806	<i>S. progastus</i>	Gandaki	28.4	83.5667	MW479767
Hap_8	KU:KUIT:8824	KU:KUIT:27806	<i>S. progastus</i>	Gandaki	28.4	83.5667	MW479768
Hap_9	KU:KUIT:8822	KU:KUIT:27806	<i>S. progastus</i>	Gandaki	28.4	83.5667	MW479769
Hap_10	KU:KUIT:8814	KU:KUIT:27806	<i>S. progastus</i>	Gandaki	28.4	83.5667	MW479770
Hap_11	KU:KUIT:1995	KU:KUIT:27806	<i>S. progastus</i>	Gandaki	28.4	83.5667	MW479771
Hap_12	KU:KUIT:1992	KU:KUIT:27806	<i>S. progastus</i>	Gandaki	28.4	83.5667	MW479772
Hap_13	KU:KUIT:1954	KU:KUIT:29043	<i>S. progastus</i>	Gandaki	28.3404	83.5692	MW479773
Hap_14	KU:KUIT:1956	KU:KUIT:29043	<i>S. progastus</i>	Gandaki	28.3404	83.5692	MW479774
Hap_15	KU:KUIT:1955	KU:KUIT:29043	<i>S. progastus</i>	Gandaki	28.3404	83.5692	MW479775
Hap_16	KU:KUIT:1957	KU:KUIT:29043	<i>S. progastus</i>	Gandaki	28.3404	83.5692	MW479776
Hap_17	KU:KUIT:1969	KU:KUIT:29233	<i>S. richardsonii</i>	Koshi	27.5517	87.3017	MW479777
Hap_18	KU:KUIT:1947	KU:KUIT:27809	<i>S. richardsonii</i>	Gandaki	29.5217	81.78	MW479778
Hap_19	KU:KUIT:8833	KU:KUIT:27887	<i>S. richardsonii</i>	Gandaki	28.4	83.5667	MW479779
Hap_20	KU:KUIT:8832	KU:KUIT:27887	<i>S. richardsonii</i>	Gandaki	28.4	83.5667	MW479780
Hap_21	KU:KUIT:8831	KU:KUIT:27887	<i>S. richardsonii</i>	Gandaki	28.4	83.5667	MW479781
Hap_22	KU:KUIT:8830	KU:KUIT:27887	<i>S. richardsonii</i>	Gandaki	28.4	83.5667	MW479782
Hap_23	KU:KUIT:8828	KU:KUIT:27887	<i>S. richardsonii</i>	Gandaki	28.4	83.5667	MW479783
Hap_24	KU:KUIT:8826	KU:KUIT:27887	<i>S. richardsonii</i>	Gandaki	28.4	83.5667	MW479784
Hap_25	KU:KUIT:8825	KU:KUIT:27887	<i>S. richardsonii</i>	Gandaki	28.4	83.5667	MW479785
Hap_26	KU:KUIT:8817	KU:KUIT:27887	<i>S. richardsonii</i>	Gandaki	28.4	83.5667	MW479786
Hap_27	KU:KUIT:1999	KU:KUIT:27885	<i>S. richardsonii</i>	Gandaki	29.5533	82.17	MW479787
Hap_28	KU:KUIT:1991	KU:KUIT:27887	<i>S. richardsonii</i>	Gandaki	28.4	83.5667	MW479788
Hap_29	KU:KUIT:1989	KU:KUIT:27887	<i>S. richardsonii</i>	Gandaki	28.4	83.5667	MW479789
Hap_30	KU:KUIT:1988	KU:KUIT:27887	<i>S. richardsonii</i>	Gandaki	28.4	83.5667	MW479790
Hap_31	KU:KUIT:1987	KU:KUIT:1 27887	<i>S. richardsonii</i>	Gandaki	28.4	83.5667	MW479791

Hap_32	KU:KUIT:1986	KU:KUIT:27887	<i>S. richardsonii</i>	Gandaki	28.4	83.5667	MW479792
Hap_33	KU:KUIT:1984	KU:KUIT:27887	<i>S. richardsonii</i>	Gandaki	28.4	83.5667	MW479793
Hap_34	KU:KUIT:1979	KU:KUIT:27886	<i>S. richardsonii</i>	Gandaki	28.3404	83.5692	MW479794
Hap_35	KU:KUIT:1963	KU:KUIT:29050	<i>S. richardsonii</i>	Gandaki	28.6841	83.6148	MW479795
Hap_36	KU:KUIT:1962	KU:KUIT:29050	<i>S. richardsonii</i>	Gandaki	28.6841	83.6148	MW479796
Hap_37	KU:KUIT:1961	KU:KUIT:29050	<i>S. richardsonii</i>	Gandaki	28.6841	83.6148	MW479797
Hap_38	KU:KUIT:1959	KU:KUIT:29050	<i>S. richardsonii</i>	Gandaki	28.6841	83.6148	MW479798
Hap_39	KU:KUIT:8820	KU:KUIT:27886	<i>S. richardsonii</i>	Gandaki	28.3404	83.5692	MW479799
Hap_40	N/A	N/A	<i>S. richardsonii</i>	Koshi	27.8284	85.5769	KP712249
Hap_41	N/A	N/A	<i>S. richardsonii</i>	Koshi	27.8284	85.5769	KP712220
Hap_42	KU:KUIT:2002	KU:KUIT:27885	<i>S. richardsonii</i>	Karnali	29.5533	82.1699	MW479800
Hap_43	KU:KUIT:2001	KU:KUIT:27885	<i>S. richardsonii</i>	Karnali	29.5533	82.1699	MW479801
Hap_44	KU:KUIT:2000	KU:KUIT:27885	<i>S. richardsonii</i>	Karnali	29.5533	82.1699	MW479802
Hap_45	KU:KUIT:1949	KU:KUIT:27809	<i>S. richardsonii</i>	Karnali	29.5217	81.78	MW479803
Hap_46	KU:KUIT:1948	KU:KUIT:27809	<i>S. richardsonii</i>	Karnali	29.5217	81.78	MW479804
Hap_47	KU:KUIT:1946	KU:KUIT:27809	<i>S. richardsonii</i>	Karnali	29.5217	81.78	MW479805
Hap_48	KU:KUIT:1939	KU:KUIT:27810	<i>S. richardsonii</i>	Karnali	29.5216	81.93	MW479806
Hap_49	KU:KUIT:1938	KU:KUIT:27810	<i>S. richardsonii</i>	Karnali	29.5533	82.1699	MW479807
Hap_50	KU:KUIT:2003	KU:KUIT:27885	<i>S. richardsonii</i>	Karnali	29.5533	82.1699	MW479808
Hap_51	KU:KUIT:1937	KU:KUIT:27510	<i>S. richardsonii</i>	Karnali	29.5216	81.93	MW479809
Hap_51	KU:KUIT:1935	KU:KUIT:27511	<i>S. richardsonii</i>	Karnali	29.5216	81.93	MW479810
Hap_51	N/A	N/A	<i>S. macrophthalmus</i>	Karnali - Lake Rara	29.5533	82.1699	KP712253
Hap_51	N/A	N/A	<i>S. nepalensis</i>	Karnali - Lake Rara	29.5533	82.1699	KP712254
Hap_51	N/A	N/A	<i>S. nepalensis</i>	Karnali - Lake Rara	29.5533	82.1699	NC_031537
Hap_51	KU:KUIT:1932	KU:KUIT:29237	<i>S. macrophthalmus</i>	Karnali - Lake Rara	29.5533	82.1699	MW479811
Hap_51	KU:KUIT:1902	KU:KUIT:27813	<i>S. macrophthalmus</i>	Karnali - Lake Rara	29.5533	82.1699	MW479812
Hap_51	KU:KUIT:1931	KU:KUIT:29237	<i>S. macrophthalmus</i>	Karnali - Lake Rara	29.5533	82.1699	MW479813
Hap_51	KU:KUIT:1794	KU:KUIT:27811	<i>S. nepalensis</i>	Karnali - Lake Rara	29.5533	82.1699	MW479814
Hap_51	KU:KUIT:1900	KU:KUIT:27807	<i>S. raraensis</i>	Karnali - Lake Rara	29.5533	82.1699	MW479815
Hap_51	KU:KUIT:1799	KU:KUIT:29238	<i>S. raraensis</i>	Karinali-Lake Rara	29.5333	82.0667	MW479816
Hap_51	KU:KUIT:1797	KU:KUIT:29238	<i>S. raraensis</i>	Karinali-Lake Rara	29.5333	82.0667	MW479817
Hap_52	KU:KUIT:1936	KU:KUIT:27810	<i>S. richardsonii</i>	Koshi	29.5533	82.1699	MW479818
Hap_53	KU:KUIT:1967	KU:KUIT:29233	<i>S. richardsonii</i>	Koshi	27.5517	87.3016	MW479819
Hap_54	KU:KUIT:1973	KU:KUIT:29233	<i>S. richardsonii</i>	Koshi	27.5517	87.3016	MW479820
Hap_55	KU:KUIT:1971	KU:KUIT:29233	<i>S. richardsonii</i>	Koshi	27.5517	87.3016	MW479821
Hap_56	KU:KUIT:1970	KU:KUIT:29233	<i>S. richardsonii</i>	Koshi	27.5517	87.3016	MW479822
Hap_57	KU:KUIT:1968	KU:KUIT:29233	<i>S. richardsonii</i>	Koshi	27.5517	87.3016	MW479823
Hap_58	KU:KUIT:1965	KU:KUIT:29233	<i>S. richardsonii</i>	Koshi	27.5517	87.3016	MW479824
Hap_59	KU:KUIT:1964	KU:KUIT:29233	<i>S. richardsonii</i>	Koshi	27.5517	87.3016	MW479825

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Hap_60	KU:KUIT:1972	KU:KUIT:29233	<i>S. richardsonii</i>	Koshi	27.5517	87.3016	MW479826
Hap_61	KU:KUIT:2017	KU:KUIT:27813	<i>S. nepalensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479827
Hap_62	KU:KUIT:2016	KU:KUIT:27813	<i>S. nepalensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479828
Hap_63	KU:KUIT:2015	KU:KUIT:27813	<i>S. nepalensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479829
Hap_64	KU:KUIT:2014	KU:KUIT:27813	<i>S. macrophthalmus</i>	Karnali - Lake Rara	29.5333	82.0667	MW479830
Hap_65	KU:KUIT:2013	KU:KUIT:27813	<i>S. macrophthalmus</i>	Karnali - Lake Rara	29.5333	82.0667	MW479831
Hap_66	KU:KUIT:2012	KU:KUIT:27813	<i>S. macrophthalmus</i>	Karnali - Lake Rara	29.5333	82.0667	MW479832
Hap_67	KU:KUIT:2011	KU:KUIT:27813	<i>S. macrophthalmus</i>	Karnali - Lake Rara	29.5333	82.0667	MW479833
Hap_68	KU:KUIT:1934	KU:KUIT:29237	<i>S. macrophthalmus</i>	Karnali - Lake Rara	29.5333	82.0667	MW479834
Hap_69	KU:KUIT:2018	KU:KUIT:27813	<i>S. macrophthalmus</i>	Karnali - Lake Rara	29.5333	82.0667	MW479835
Hap_70	KU:KUIT:1903	KU:KUIT:27813	<i>S. macrophthalmus</i>	Karnali - Lake Rara	29.5333	82.0667	MW479836
Hap_71	KU:KUIT:1933	KU:KUIT:29237	<i>S. macrophthalmus</i>	Karnali - Lake Rara	29.5333	82.0667	MW479837
Hap_72	KU:KUIT:1908	KU:KUIT:27811	<i>S. nepalensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479838
Hap_73	KU:KUIT:1928	KU:KUIT:29234	<i>S. nepalensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479839
Hap_74	KU:KUIT:1930	KU:KUIT:29234	<i>S. nepalensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479840
Hap_75	KU:KUIT:1905	KU:KUIT:27811	<i>S. nepalensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479841
Hap_76	KU:KUIT:1906	KU:KUIT:27812	<i>S. nepalensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479842
Hap_77	KU:KUIT:1796	KU:KUIT:27813	<i>S. nepalensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479843
Hap_76	KU:KUIT:1929	KU:KUIT:29234	<i>S. nepalensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479844
Hap_77	KU:KUIT:1792	KU:KUIT:27811	<i>S. nepalensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479845
Hap_78	KU:KUIT:1793	KU:KUIT:27811	<i>S. nepalensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479846
Hap_79	KU:KUIT:1798	KU:KUIT:29238	<i>S. raraensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479847
Hap_80	KU:KUIT:2021	KU:KUIT:27807	<i>S. raraensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479848
Hap_81	KU:KUIT:2020	KU:KUIT:27807	<i>S. raraensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479849
Hap_82	KU:KUIT:2019	KU:KUIT:27807	<i>S. raraensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479850
Hap_83	KU:KUIT:2010	KU:KUIT:I 27807	<i>S. raraensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479851
Hap_84	KU:KUIT:2008	KU:KUIT:I 27814	<i>S. raraensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479852
Hap_85	KU:KUIT:2007	KU:KUIT:I 27814	<i>S. raraensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479853
Hap_86	KU:KUIT:2006	KU:KUIT:I 27814	<i>S. raraensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479854
Hap_87	KU:KUIT:2004	KU:KUIT:I 27885	<i>S. raraensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479855
Hap_88	KU:KUIT:1927	KU:KUIT:I 29236	<i>S. raraensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479856
Hap_89	KU:KUIT:2005	KU:KUIT:I 27814	<i>S. raraensis</i>	Karnali - Lake Rara	29.5333	82.0667	MW479857

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**Table S3.** Pairwise Euclidean distance matrix between five species of *Schizothorax* from Nepal. Distances were derived between average configurations of General Procrustes Analysis aligned landmark coordinates. The average configuration was estimated through minimizing the sum of squared norms of pairwise differences between the shapes of all samples within a group. MAC= *Schizothorax macrophthalmus*, NEP= *S. nepalensis*, PRO= *S. progastus*, RAR= *S. raraensis*, RIC= *S. richardsonii*.

	MAC	NEP	PRO	RAR
NEP	0.0244			
PRO	0.0233	0.0285		
RAR	0.0356	0.0434	0.0433	
RIC	0.0238	0.0195	0.0279	0.0400

**Table S4.** Pairwise Euclidean distance for five species of *Schizothorax* across three basins in Nepal. Distances were derived from average configurations of GPA-aligned landmark coordinates (shape data). Average configurations were estimated through minimizing the sum of squared norms of pairwise differences between all shapes of all samples within a group. PRO\_KOS= *S. progastus* from Koshi River basin, PRO\_GAN= *S. progastus* from Gandaki River basin, PRO\_KAR= *S. progastus* from Karnali River basin, RIC\_KOS= *S. richardsonii* from Koshi River basin, RIC\_GAN= *S. richardsonii* from Gandaki River basin, RIC\_KAR= *S. richardsonii* from Karnali River basin, RAR= *S. raraensis*, MAC= *S. macrophthalmus*, NEP= *S. nepalensis*.

	PRO_KO	PRO_GA	PRO_KA	RIC_KO	RIC_GA	RIC_KA	MAC	RAR
PRO_GAN	0.0319							
PRO_KAR	0.0301	0.0242						
RIC_KOS	0.0376	0.0352	0.0404					
RIC_GAN	0.0495	0.0292	0.0341	0.0332				
RIC_KAR	0.0496	0.0333	0.0376	0.0271	0.0154			
MAC	0.0368	0.0257	0.0242	0.0308	0.0267	0.0273		
RAR	0.0466	0.0423	0.0419	0.0338	0.0417	0.0361	0.0297	
NEP	0.0494	0.0266	0.0359	0.0331	0.0204	0.0225	0.0241	0.0384