

## Short Note

Already too late? Massive trade in Indian star tortoises (*Geochelone elegans*) might have wiped out its phylogeographic differentiation

Melita Vamberger<sup>1\*</sup>, Cäcilia Spitzweg<sup>1</sup>, Anslem de Silva<sup>2</sup>, Razaqat Masroor<sup>3</sup>, Peter Praschag<sup>4</sup>, Uwe Fritz<sup>1</sup>

1 - Museum of Zoology, Senckenberg Dresden, A. B. Meyer Building, 01109 Dresden, Germany

2 - 15/1 Dolosbage Road, Gampola, Sri Lanka

3 - Pakistan Museum of Natural History, Garden Avenue, Shakarparian, Islamabad-44000, Pakistan

4 - Turtle Island, Turtle Conservation and Research Center, Am Katzelnbach 98, 8054 Graz, Austria

\* Corresponding author; e-mail: melita.vamberger@senckenberg.de

**Supplementary material**

**Table S1.** Samples and European Nucleotide Archive (ENA) numbers of *Geochelone elegans*, *G. platynota*, and GenBank sequences of *Centrochelys sulcata*.

Taxon	Lab code	12S	cyt b	ND4+tRNAs	Provenance
<i>Geochelone elegans</i>	4049	LR596687	LR596638	LR596738	India: Gujarat
<i>Geochelone elegans</i>	4050	LR596688	LR596639	LR596739	India: Gujarat
<i>Geochelone elegans</i>	4051	LR596689	LR596640	LR596740	India: Gujarat
<i>Geochelone elegans</i>	4052	LR596690	LR596641	LR596741	India: Gujarat
<i>Geochelone elegans</i>	4053	LR596691	—	LR596742	India: Gujarat
<i>Geochelone elegans</i>	4056	LR596692	LR596642	LR596743	India: Madras
<i>Geochelone elegans</i>	4035	LR596693	LR596643	LR596744	India: Tamil Nadu: Mamallapuram
<i>Geochelone elegans</i>	4036	LR596694	LR596644	LR596745	India: Tamil Nadu: Mamallapuram
<i>Geochelone elegans</i>	4037	LR596695	LR596645	LR596746	India: Tamil Nadu: Mamallapuram
<i>Geochelone elegans</i>	4038	LR596696	LR596646	LR596747	India: Tamil Nadu: Mamallapuram
<i>Geochelone elegans</i>	246	LR596697	LR596647	LR596748	—
<i>Geochelone elegans</i>	3930	LR596698	LR596648	LR596749	—
<i>Geochelone elegans</i>	42983	LR596699	LR596649	LR596750	—
<i>Geochelone elegans</i>	8416	LR596700	LR596650	LR596751	—
<i>Geochelone elegans</i>	8417	LR596701	LR596651	LR596752	—
<i>Geochelone elegans</i>	8418	LR596702	LR596652	LR596753	—
<i>Geochelone elegans</i>	42885	LR596703	LR596653	LR596754	—
<i>Geochelone elegans</i>	41107	LR596704	LR596654	LR596755	Pakistan: Sindh Province: Tharparkar District: Nagar Parker, Goth Berano
<i>Geochelone elegans</i>	6401	LR596705	LR596655	LR596756	Pakistan: Sindh Province: Tharparkar District: Nagar Parker, Goth Chanoth
<i>Geochelone elegans</i>	6403	LR596706	LR596656	LR596757	Pakistan: Sindh Province: Tharparkar District: Nagar Parker, Goth Singhwari
<i>Geochelone elegans</i>	6404	LR596707	LR596657	LR596758	Pakistan: Sindh Province: Tharparkar District: Nagar Parker, Ramasar Tahlab, Phulphro Stream
<i>Geochelone elegans</i>	6399	LR596708	LR596658	LR596759	Pakistan: Sindh Province: Tharparkar District: Nagar Parker, Ramasar Tahlab, Phulphro Stream
<i>Geochelone elegans</i>	6400	LR596709	LR596659	LR596760	Pakistan: Sindh Province: Tharparkar District: Nagar Parker, Jhijho Nadi
<i>Geochelone elegans</i>	5569	LR596710	LR596660	LR596761	Pakistan: Sindh Province: Tharparkar District: Nagar Parker, Goth Berano
<i>Geochelone elegans</i>	4054	LR596711	—	LR596762	Sri Lanka
<i>Geochelone elegans</i>	4055	LR596712	LR596661	LR596763	Sri Lanka
<i>Geochelone elegans</i>	4067	LR596713	LR596662	LR596764	Sri Lanka
<i>Geochelone elegans</i>	4068	LR596714	LR596663	LR596765	Sri Lanka
<i>Geochelone elegans</i>	4073	LR596715	LR596664	LR596766	Sri Lanka
<i>Geochelone elegans</i>	6054	LR596716	LR596665	LR596767	Sri Lanka
<i>Geochelone elegans</i>	6055	LR596717	LR596666	LR596768	Sri Lanka
<i>Geochelone elegans</i>	6057	LR596718	LR596667	LR596769	Sri Lanka

Table S1. *Continued*

Taxon	Lab code	12S	cyt <i>b</i>	ND4+tRNAs	Provenance
<i>Geochelone elegans</i>	14506	—	LR596668	LR596770	Sri Lanka
<i>Geochelone elegans</i>	14495	LR596719	LR596669	LR596771	Sri Lanka: Anuradhapura
<i>Geochelone elegans</i>	14496	LR596720	LR596670	LR596772	Sri Lanka: Anuradhapura
<i>Geochelone elegans</i>	14501	LR596721	LR596671	LR596773	Sri Lanka: Digawipi
<i>Geochelone elegans</i>	14502	LR596722	LR596672	LR596774	Sri Lanka: Eluwankulama
<i>Geochelone elegans</i>	14503	LR596723	LR596673	LR596775	Sri Lanka: Eluwankulama
<i>Geochelone elegans</i>	14504	LR596724	LR596674	LR596776	Sri Lanka: Kandalama
<i>Geochelone elegans</i>	14505	LR596725	—	—	Sri Lanka: Ritigala Nature Reserve
<i>Geochelone elegans</i>	14500	LR596726	LR596675	LR596777	Sri Lanka: Tissamaharama
<i>Geochelone elegans</i>	14498	LR596727	LR596676	LR596778	Sri Lanka: Uddakandara
<i>Geochelone elegans</i>	14499	LR596728	LR596677	LR596779	Sri Lanka: SE Wellawaya
<i>Geochelone elegans</i>	14491	LR596729	LR596678	LR596780	Sri Lanka: Wilpattu National Park
<i>Geochelone elegans</i>	14492	LR596730	LR596679	LR596781	Sri Lanka: Wilpattu National Park
<i>Geochelone elegans</i>	14493	LR596731	LR596680	LR596782	Sri Lanka: Wilpattu National Park
<i>Geochelone platynota</i>	4058	LR596732	LR596681	LR596783	Myanmar
<i>Geochelone platynota</i>	4059	LR596733	LR596682	LR596784	Myanmar
<i>Geochelone platynota</i>	4060	LR596734	LR596683	LR596785	Myanmar
<i>Geochelone platynota</i>	4061	LR596735	LR596684	LR596786	Myanmar
<i>Geochelone platynota</i>	4062	LR596736	LR596685	LR596787	Myanmar
<i>Geochelone platynota</i>	5721	LR596737	LR596686	LR596788	Myanmar
<i>Centrochelys sulcata</i>	—	GU477778	LT599492	AY673477	—

Table S2. Partitioning scheme and evolutionary models used for MrBayes.

Subset	nst	Rates	Model
1-370 371-1437\3 1438-2098\3 2099-2289	2	gamma	HYK + gamma
372-1437\3 1439-2098\3	2		HYK
373-1437\3 1440-2098\3	6		GTR