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The Distribution of Reptiles and Amphibians in Asiatic Turkey, with Notes on a Collection from the Vilayets of Adana, Gaziantep, and Malatya. By C. G. BIRD.

[Plates VI. & VII.]

INTRODUCTION.

In February of 1935, in company with Mr. E. K. Balls, botanist and horticulturist, I left England with the purpose of collecting reptiles in Eastern Asia Minor in the country around Lake Van; after numerous hindrances by the Turkish Government we were eventually forced to leave the country at the end of June without having visited this area at all. However, we did as much as we could in the country around the south and east sides of the Cilician Taurus.

Owing to the difficulty of travel under the old regime, and the present restrictions under the new, the distribution and systematics of Asia Minor reptiles are comparatively unknown; as there is little material in European Museums the distribution is only known from the records of travellers who have casually made collections.

I have included in the distribution two areas just outside the borders of Asiatic Turkey—Istanbul in European Turkey and the Amanus Mts. in Syria; the paper on the latter area contains records both inside and outside the Turkish borders.

In those cases where I have given the colours of reptiles the specimens were compared with Winsor and Newton's colour chart of permanent water-colours; this was always done before the specimens had been placed in any preservative.

I am very grateful to my companion for helping to collect several specimens, and also to Mr. Tubini for a small collection from Istanbul. I am again very much indebted to Mr. H. W. Parker of the British Museum (Natural History) for all his help and valuable suggestions.

A bibliography is given at the end which includes all the references except a few of the earlier ones, which may be found in Boettger (1888) and Werner (1902).

Numbers given before the details of my specimens refer to British Museum numbers.

TESTUDINES.

Testudo græca Linnæus.

Distribution.—Izmir (Loret); Burnabat near Izmir (Boettger, Coll. Th. Loebbecke); Bursa (Steindachner, Coll. Mann); Ankara (Berthold); S.W. Erdschias Mts. (Siebenrock); Mcander Valley (Boulenger); Antalya, Sandikli, and Milet (Werner, Coll. Vosseler); Jenişchir, Afyon, Karahissar, Sultan Dagh near Akşchir (Werner, Coll. Bornmüller), Bilecik and Ankara (Steindachner, Coll. Escherich); Cilician Taurus (Werner, Coll. Holtz); Bursa (Scholer); Paznar-Keuy-Isnik-Mekece-Eskişchir Saboundji-Bounar, Izmir, and Ephesus (Werner); Gülck, Tarsus, Pozanti, and Bulgar Dagh (Venzmer); Ankara (Boulenger, Coll. Gadeau de Kerville); Mardin (Mertens, Coll. Wolter).

B.M. reg. no. 1935.11.4.174-180 1935.11.4.185	Tarsus, in rar Adana, 500 ft			ı-level.	6/4/35. 11/4/35.
and the state of an interest of an i	Gaziantep, 30			ground.	16/4/35.
1935.11.4.170-173	,,	29	23	335	29/4/35.
and the second s		**	27	79	6/5/35. 1/5/35.
1935.11.4.184	Ankara.	**	**	,,	28/5/35.
1935.11.4.181-183	Hills above	Bosphoru	ıs, Tu	rkey in	20,000.
	Europe, 300				26/4/35.

The above specimens agree well with those from the Balkan Peninsula. Venzmer (Zool. Anz. 1919, p. 291) points out there is a variety of græca in Asia Minor with divided supracaudals; this he calls var. bicaudalis, from a specimen obtained by him in the Bulgar Dagh in the Cilician Taurus. In the British Museum collection there are five specimens of græca from North Syria, two of which have divided supracaudals. In December 1920 Boulenger described a new land-tortoise from North Persia as Testudo buxtoni, and points out that it is only to be distinguished from græca by the divided supracaudal shield and the extremely narrow pectorals. In the list below I give the measurements of buxtoni, those from Syria, my own specimens, and some others. When the height and width ratios are plotted against the length it can be seen that the specimens with the divided supracaudal shield have the same ratios as do the specimens of græca. Therefore it appears to me that buxtoni, which was described from one specimen, is only a rather large græca. As to the division of the supracaudal shield, this appears to occur sporadically amongst the larger specimens of græca. In any case the name buxtoni cannot stand, as bicaudalis has priority over it by three months. I have also examined the type-specimen of T. zarudnyi from Persia in the British Museum collection; there appears to be no character which warrants it being separated from græca. I give the measurements of this specimen also, and the ratios of height and width over length are the same as in græca. From the appearance of the shell I should say it was a very old individual.

Sex.	Length.	Width ratio.	Depth ratio.	Locality.
3	45	-80	-55	Adana.
\$	52	-86	.51	Ankara.
2	62	.82	-50	Tarsus.
*	65	-78	.53	1.1
	76	-69	-55	Gaziantep.
	90	.72	-50	•
	101	.78	.49	S. Kurdistan.
	105	.77	.49	Gaziantep.
2	114	.73	.50	Tarsus.
	151	-80	.54	199
2	160	.74	-51	***
1	161	-71	-52	
ĺ	177	-72	.52	,,
2	181	- 71	-51	
9	212	.74	·48	(zarudnyi) Persia.
2	213	-74	-51	Syria.
*	236	.72	.43	
	253	-66	-46	,,
t	263	-66	.47	,,
 	272	.68	44	
\$	280	-67	.45	(buxtoni) Persia.

Width ratio=width over length. Depth ratio=depth over length.

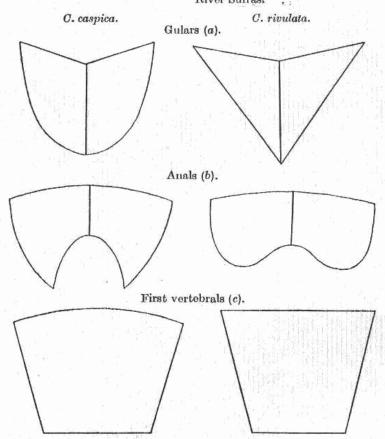
Note the progressive decrease in width and depth ratios with the increase of length.

Clemmys caspica Gmelin and Clemmys rivulata Val.

Distribution.—Meander Valley (Boulenger); Antalya (Werner, Coll. Vosseler); Ankara (Steindachner, Coll. Escherich); River Pursak near Eskişehir (Werner); Balukli near Bursa (Werner); Belgrade Forest, Istanbul, Manisa, and Izmir (Werner); Valley of the Meander (Boulenger, Coll. Gray); Izmir and Ankara (Boulenger, Coll. Gadeau

de Kerville); Cilician Taurus, Pozanti, Gülek, Adana, Tarsus, and Mersin (Venzmer).

B.M. reg. no.
1935.11.4.194...... 20/5/35 River Sufras between Besni and
Keysun, 3600 ft.
1935.11.4.186-193.... 29/5/35 Gaziantep from stream below town,
River Sufras.



Outlines of shields of Clemmys caspica and Clem mys rivulata.

C. rivulata has usually been regarded as a subspecies of C. caspica. Boulenger (1924, p. 1) points out that of eleven specimens from Ankara four were of the typical subspecies and four were rivulata, this being the first time the two had been seen to occur in the same place. I have examined four of these specimens from de Kerville's collection; two belong to each subspecies. The characters for distinguishing them are: (1) The shape of the gulars;

in caspica the angles of the anterior border are smaller, giving the outline of the two gulars together a triangular shape, while in rivulata the anterior border is straight but the lateral borders are rounded, giving the two shields together the shape of a semicircle (text-fig., a). (2) The notch in the posterior edge of the anals in rivulata is in the shape of an inverted U, while in caspica it is in the shape of an inverted V (text-fig., b). (3) The anterior border of the vertebral shield in rivulata is larger in comparison with the other sides than in caspica (text-fig., c). These characters may only be used in adult specimens,

i. e., after four years old.

I have also examined specimens from Dalmatia, Bosnia, and the Cyclades, and using the characters given above they appear to belong to rivulata, while specimens from Cyprus and Damascus belong to the typical form. Eight specimens collected by us at Gaziantep, S.E. Asia unquestionably rivulata. Minor, are But besides Boulenger's record from Ankara, Venzmer (1922, p. 57) records that Werner has seen specimens even further west, i.e., at Eskişehir and River Pursak; Vosseler also records it from Eskisehir. In Central Asia Minor therefore the two forms are definitely found in the same localities, and as the characters given above are so distinct I think rivulata should be regarded as a species distinct from caspica. When Venzmer (Zool. Anz. 1920, p. 99) wrote that he thought the typical form only occurred in Central Asia Minor and that rivulata occurred on the coasts he had not seen de Kerville's specimens from Ankara.

Emys orbicularis Linnæus.

Distribution.—Ankara (Steindachner, Coll. Escherich); Balukli near Bursa (Werner); Manisa (Werner); Soisaly, S.W. Erdschias Mts. (Siebenrock, Coll. Penther and Zederbauer), Ankara (Boulenger, Coll. Gadeau de Kerville).

Agama stellio stellio Linnæus.

Distribution.—Amasya (Boettger, Coll. Schneider); Izmir (Boettger); Burnabat near Izmir (Boettger, Coll. Th. Loebbecke); Zebil in Bulgar Dagh, Cilician Taurus (Boulenger, Coll. Danford); Mersin (Werner, Coll. Holtz); Amasya (Werner, Coll. Bornmüller); Soisaly, S.W. Erds-

Afferdant 1

chias Mts. (Steindachner, Coll. Penther and Zederbauer); Antalya and Buldur (Werner, Coll. Vosseler); Meles Valley, Petrota near Izmir, and Alaşehir (Werner); Amanus Mts. (Werner); Cilician Taurus, Bulgar Dagh, Gülek, Tarsus, and Adana (Venzmer); Izmir (Boulenger, Coll. Gadeau de Kerville); Mardin (Mertens, Coll. Wolter).

B.M. reg. no. 1935.11.4.106–107... 24/4/35 5000 ft., five miles west of Gaziantep, rocky hill-side, grey limestone. 3000 ft., from walls, Gaziantep. 1935.11.4.103–105... 21/5/35 3000 ft., between Keysun and Gaziantep, shot on black basalt rocks. 1935.11.4.110–111... 27/4/35 3000 ft., Gaziantep, limestone walls.

These specimens are quite typical, except numbers 108 and 109, which are very dark compared with the others, the throat and underside being very dark grey and the spots on the back fewer. These two specimens are intermediate in colour between the typical stellio and A. s. picea, which is a melanic subspecies, described by Parker (1935, p. 137) from Transjordania.

Agama ruderata ruderata Oliv.

Distribution.—Kaiseri (Werner, Coll. Siehle); Ankara (Steindachner, Coll. Escherich); Karapunar, Erdschias Mts. (Steindachner, Coll. Penther and Zederbauer); Nusaybin (Boettger); Ankara (Boulenger, Coll. Gadeau de Kerville); Mardin (Mertens, Coll. Wolter).

B.M. reg. no. $\begin{cases} 23/4/35 & 3000 \text{ ft., Gaziantep.} \\ 1/5/35 & & & & & & & & \\ 1/5/35 & & & & & & & & \\ 28/5/35 & & & & & & & & \\ 28/5/35 & & & & & & & & \\ 1935.11.4.119. & & & & & & & \\ 20/4/35 & & & & & & & & \\ 1935.11.4.120. & & & & & & \\ 20/5/35 & & & & & & & \\ 1935.11.4.120. & & & & & & \\ 20/5/35 & & & & & & \\ 1935.11.4.120. & & & & & \\ 20/5/35 & & & & & & \\ 1935.11.4.120. & & & & \\ 20/5/35 & & & & & \\ 20/5/35 & & & & & \\ 20/5/35 & & & & \\ 20/5/35 & & & & \\ 20/5/35 & & & & \\ 20/5/35 & & & & \\ 20/5/35 & & & & \\ 20/5/35 & & & & \\ 20/5/35 & & & & \\ 20/5/35 & & & & \\ 20/5/35 & & & & \\ 20/5/35 & & & & \\ 20/5/35 &$

The adults have the dorsal barring of medium burntsienna and the ground-colour pale burnt-sienna. These lizards were not found on walls, but on dry, reddish, stony, waste ground. This colouring does not refer to the specimen from Besni, which was paler.

Blanus strauchi Bedriaga.

Distribution.—Arsus (Bedriaga); Manisa (Bedriaga); Izmir (Boettger, Coll. A. Müller); Meander Valley (Boulenger); Istanbul (Boulenger); Izmir (Bedriaga);

Ephesus, Izmir, Burnabat, Aydin, Manisa, and Alaşehir (Werner); Atyk Koy, Jarbaschi, Amanus, and Kushdjula (Werner); Izmir (Boulenger, Coll. Gadeau de Kerville); Mardin (Mertens, Coll. Wolter).

B.M. reg. no.
1935.11.4.125-127.... 20/4/35 Indjisu, near Gaziantep, thirty km.
on the Maras road, 4000 ft., under
stones on dry hill-side.

Blanus aporus Werner.

Distribution.—Mersin (Werner, Coll. Holtz); Bulgar Dagh (Venzmer).

First described by Werner in 1898 from specimens collected by Holtz in Mersin.

Ophisaurus apodus Pallas.

Distribution.—Ankara (Berthold); Gülek (Werner, Coll. Holtz); Bursa (Steindachner, Coll. Mann); Sinop (Boettger, Coll. Retowski); Adana (Werner); Bulgar Dagh (Venzmer); Izmir (Boulenger, Coll. Gadeau de Kerville).

B.M. reg. no. $\begin{cases} 26/5/35 & 300 \text{ ft., hills above Bosphorus, Turkey} \\ & \text{in Europe.} \\ 24/5/35 & \text{Striped immature specimen, details} \\ & \text{as } 121. \end{cases}$

This species is said to be very common in the above locality.

Anguis fragilis Linnæus.

Distribution.—Bursa (Boettger, Coll. Maltzan); Beikos on the Bosphorus (Werner, Coll. Betsch); Rise and Trabzon (Boettger, Coll. Retowski).

B.M. reg. no. $\begin{cases} 24/5/35 & 300 \text{ ft., hills above Bosphorus,} \\ & \text{Turkey in Europe.} \\ 21/5/35 & 300 \text{ ft., hills above Bosphorus,} \\ & \text{Turkey in Europe.} \end{cases}$

Another common species in the above neighbourhood.

LACERTILIA.

Gymnodactylus kotschyi Steindachner.

Distribution.—Nusaybin (Boettger); Konya (Werner, Coll. Escherich); Mersin and Gülek (Werner, Coll. Holtz); Jarbaschi and Amanus Mts. (Werner); Serai Dagh near

Konya (Steindachner); Ebene, S. Taurus, Mersin, and Bulgar Dagh (Venzmer).

Gymnodactylus heterocercus mardinensis Mertens.

Distribution.—Mardin (Mertens, Coll. Wolter).

B.M. reg. no. 1935.11.4.102...... 12/5/35 On the wall of the American College, Gaziantep, 3000 ft.

Details of this specimen are as follows:—Tibial scales keeled; twenty-six scales in a transverse row on the underside of the belly; tubercles on the back in ten rows; nine upper labials, eight lower labials; snout to vent 46 mm. This record extends the range of this subspecies 200 km. to the west, previously it had not been recorded outside the Mardin area.

Hemidactylus turcicus turcicus Linnæus.

Distribution.—Izmir (Boulenger); Mersin (Werner, Coll. Holtz); Izmir (Boettger); Island of Platia in the Sea of Marmora (Werner); Adana (Werner); Mersin (Werner, Coll. Siehle); Izmir (Boulenger, Coll. Gadeau de Kerville).

Ophisops elegans ehrenbergi Wiegmann.

This exceedingly common and widely distributed species in Asia Minor has been recorded by all observers there.

B.M. reg. no. Gaziantep, 30,000 ft., dry stony 19/4/35 ground. Gaziantep, 3000 ft., under stones, 23/4/35 1935.11.4.144-153 dry ground, hill-side, 26/4/35 Gaziantep, 3000 ft., dry ground. 1/5/35 Indjisu, 30 km. from Gaziantep 1935.11.4.135-141. 20/4/35 on the Maras road, 4000 ft., under stones on dry hill-side, S.E. Asia Minor. 1935.11.4.142-143.... 7 & 11/4/35 Adana, dry ground, 200 ft

In naming the above specimens it was also necessary to examine specimens from Syria, Persia, and Transcaucasia. There appears to exist some confusion as to the actual localities occupied by Ophisops e. elegans and Ophisops e. ehrenbergi. Boulenger ('Monograph of the Lacertidæ') gives the two subspecies as occurring on Mt. Hermon in the Lebanon, and he has the two subspecies extremely close together in South Asia Minor. Ophisops e. elegans, which was originally described from Baku, may be said to be the Transcaucasian subspecies, which extends to the Anatolian plateau; Ophisops e. ehrenbergi is the coastal subspecies, occurring from Istanbul to Syria through the Lycian and Cilician Taurus, Gaziantep. Mardin to Syria. In S.E. Asia Minor the distribution of ehrenbergi is divided by the Giaour Dagh; this line of hills is a direct continuation of the coastal hills of Syria and Palestine, i.e., the Lebanon and the Amanus Mts. Here O. e. elegans occurs, and so typical elegans is found between localities occupied by ehrenbergi. I do not suggest that the distribution of ehrenbergi is not continuous round the north of the Giaour Dagh, as there is no evidence on this point.

Lacerta sicula hieroglyphica Berthold.

Distribution.—I. of Antigoni, Platia, and Oxia, Sea of Marmora (Werner); Beikos on the Bosphorus (Werner).

1935.11.4.129–134		24/5/35	Hills Tu	above rkey in E	Bosphorus, lurope, 300 fi	Istanbul, t.
Coll. no.	ı.	2.	3.	4.	5.	6*.
129	60	64	28	3 10	26	24
130	59	65	29	10	29	32

As there are no specimens of this subspecies in the British Museum I have compared the above with albiventris from Italy, which Boulenger regards as almost similar.

^{* 1.} Length from snout to vent. 2. Scales across the middle of the body. 3. Transverse series of ventral plates. 4. Collar plates. 5. Gular scales in a longitudinal series. 6. Lamellar scales under the fourth toe.

Measurements of six specimens of albiventris from the Adriatic coast of Italy:—

a	67	63	21	7	26	20
b	63	62	24	9	24	28
c	60	67	24	8	27	29
d	52	65	23	8	26	28
e	64	67	24	10	26	30
f	64	65	25	9	27	28

Boulenger (Mon. of the Lacertidæ, vol. i. p. 208) gives measurements of two specimens from Marmora Islands:

Oxia	65	68	29	11	28	32
Platia	62	71	28	9	28	30

and one specimen from Istanbul (Constantinople):

48 68 25 11 34 3

Although my specimens from Istanbul are smaller on an average in measurements, i. e., 182–185, I think they should be referred to the above subspecies.

Apathya cappadocica cappadocica Werner. (Pl. VI. fig. 1.).

Distribution.—Erdschias Mts. (Werner, Coll. Siehle); Buldur in Pisidia (Werner, Coll. Vosseler); Soisaly and Ewerek in S.W. Erdschias Mts. and Lifos (Steindachner, Coll. Penther & Zederbauer); Dumbelek Dagh (Werner, Coll. Siehle); Kaiseri (Boulenger, Coll. Danford); Adana (Werner).

Apathya cappadocica wolteri, subsp. n. (Pl. VII. figs. 2 & 3.).

Distribution.—Mardin (Mertens, Coll. Wolter).

B.M. reg. no.

1935.11.4.128 (holotype). 23/4/35 3000 ft., ten miles west of Gaziantep; on limestone rocks in thick scrub country.

Paratypes.—Five specimens in the Magdeburg Museum from Mardin, collected by Herr Wolter.

Details.—♀ (collar shields damaged): femoral pores 22, gular scales 31, rows of ventral plates 29, scales around the body excluding ventrals 60, supraciliaries 7, scales

Holdyken

beneath the fourth toe 25; length, snout to vent 74 mm., tail 111 mm. (extreme tip broken, perhaps 10 mm.).

Details of the five specimens from Mardin may be found in the paper by Mertens (1924). I have examined, through the kindness of Dr. Wolterstorff, specimens nos. 1, 3, 4, 5 described in that paper, and have compared them with the specimen I obtained near Gaziantep, and I consider they should be separated subspecifically from typical cappadocica. I have examined specimens of the typical form from Hassan Dagh (2), Erdschias Mts. (1), Adana (1), Dumbelek Dagh (imm.) (1), Kaiseri (imm.) (1), Möks in Kurdistan (imm.) (1).

The name proposed for the new subspecies is wolteri, after Herr Wolter, who was post director in Mardin during the war, and collected the Mardin specimens. The pholidosis of the two subspecies is similar. They are to be distinguished by the difference in the colour-pattern

of the back, head, and flanks.

Wolteri is distinguished from typical cappadocica by the presence of two very clearly marked longitudinal lines (3 mm. wide approx.) running from the base of the tail along the back and outer edge of the parietals to the posterior border of the eye. Between these lines the colour is not mottled black and blue-green as in cappadocica (Pl. VI. fig. 1), but is black divided either by narrow bands of blue-green (Pl. VII. fig. 2), or, in the specimen from Gaziantep, by a row of ocelli (Pl. VII. fig. 3). In wolteri, outside the two dorsal lines, the black is broken up by spots and short lines; this colouring reaches the ventral plates. In cappadocica the colourpattern outside the dorsal lines is as in wolteri, but is separated from the ventral plates by a further mid-lateral line of blue-green; this line runs from the angle of the jaw to the hind limbs. In cappadocica the head is often flecked with black, but never so in wolteri. - like der abordi & him

Eremias velox velox Pallas.

Distribution.—Alaşehir (Werner); Mts. west of Buldur (Werner, Coll. Vosseler).

Lacerta taurica taurica Pallas.

Distribution.—Beikos on the Bosphorus (Werner, Coll. Vosseler).

Lacerta lavis Gray.

Distribution.—Cilician Taurus (Werner, Coll. Siehle); Bulgar Dagh (Venzmer). Boulenger ('Monograph of the Lacertidæ,' vol. i. p. 306) believes Werner's record to be based on an aberrant form of danfordi, and confines the distribution of lævis to Syria.

Lacerta danfordi Gunther.

Distribution.—Bulgar Dagh, Cilician Taurus (Boulenger, Coll. Danford); Kaiseri and Dumbelek Mt. (Werner, Coll. Siehle); Antalya to Buldur (Werner, Coll. Vosseler); Kushjula, Cilician Taurus (Werner); Bulgar Dagh (Venzmer).

Lacerta anatolica Werner.

Distribution.—Koksche Kissik near Eskişehir (Werner, Coll. Backhaus & Vosseler).

Lacerta muralis muralis Laurenti.

Distribution.—Beikos on the Bosphorus (Werner, Coll. Betsch).

Lacerta depressa Camerano.

Distribution.—Trabzon (Camerano); Sinop (Boettger, Coll. Retowski); all Mts. from Transcaucasia to Sinop in Paphlagonia (Werner); east side of Erdschias Mts., Ewerek, south side and Lifos, and north side (Steindachner, Coll. Penther & Zederbauer); north side of Cilician Taurus (Werner, Coll. Bornmüller).

Lacerta saxicola saxicola Eversmann.

Distribution.—Olympus near Bursa (Werner); near Lake Van (Werner).

Lacerta parva Boulenger.

Distribution.—Kaiseri (Boulenger, Coll. Danford); Sari Keuy and Berchetti Mandam (Werner); Inewi near Konya (Steindachner, Coll. Escherich); Eskişehir, Saboundji, Bounar, and Alayund (Werner); Afyon Karahissar (Werner, Coll. Vosseler); Nigde, east side of Erdsehias Mts. (Steindachner, Coll. Penther & Zederbauer); Ankara (Boulenger, Coll. Gadeau de Kerville).

Lacerta strigata Boulenger.

Distribution.—Bursa and Ankara (Steindachner, Coll. Mann & Escherich); Izmir and Cilician Taurus (Werner, Coll. Danford); Koksche Kissik, Eskişehir, Saboundji, Bounar, Burnabat near Izmir, Afyon Karahissar, Sari Keuy (Werner); Konya (Steindachner); Koksche Kissik (Werner); Konya (Steindachner); Koksche Kissik (Werner); Coll. Vosseler); Cilician Taurus (Werner, Coll. Siehle); Bulgar Dagh (Venzmer); Ankara (Boulenger, Coll. Gadeau de Kerville); Mardin (Mertens, Coll. Wolter).

Specimens from these localities which previous authors referred to *strigata strigata*, *strigata major*, and other names have been put together under *strigata*. That both these subspecies, and possibly others, occur in Asia Minor is most probable, but the status and distribution of both is very little known.

Lacerta viridis (viridis?) Laurenti.

Distribution.—Island of Platia in the Sea of Marmora (Werner); Beikos on the Bosphorus, Bursa, Olympus, Eskişehir, Schechle, Daz Dagh, and Jarpuz (Werner).

Werner records the specimens from the above localities as *viridis*. It is, however, probable that the specimens from Schechle, Daz Dagh, and Jarpuz, which are in the Amanus Mts., are really *viridis wolterstorffi* Mertens.

Chamæleo chamæleon chamæleon Linnæus.

Distribution.—Izmir (Boettger, Berthold, Boulenger); Ankara (Berthold); Mersin (Werner, Coll. Holtz); Milet, Akeuy, and Sokia (Werner, Coll. Vosseler); Adana (Werner); Jarbaschi (Werner); Bulgar Dagh (Venzmer).

Mabuia vittata Oliv.

Distribution.—Mersin (Werner, Coll. Holtz); Alayund-Saboundji-Bounar (Werner); Konya (Steindachner); Adana (Werner); Bulgar Dagh (Venzmer); Atyk Koy, Kushjula, and Alexandretta (Werner).

Mabuia septemtæniata fellowsi Gray.

Distribution.—Izmir (Boulenger); Alaşehir (Werner); Bulgar Dagh (Venzmer); Izmir (Boettger).

Mabuia aurata aurata Linnæus.

Distribution,—Mardin (Mertens, Coll. Wolter).

Eumeces schneideri schneideri Daudin.

Distribution.—Jarbaschi and Bagdje (Werner); Bulgar Dagh (Venzmer); Adana (Werner).

B.M. reg. no.

1935.11.4.154–159....

28/5/35 Gaziantep, 3000 ft., dry hill-side, waste ground. The ground-colour of the back is terre verte, the dorsal spots and mid-lateral line are deep cadming orange.

30 & 31/5/35 Gaziantep, 3000 ft. 19 & 21/6/35

These specimens agree well with those from Cyprus and Syria, in that the spots and lateral line are well marked in all the specimens. It appears that those from Mardin, 180 miles east of Gaziantep, are intermediate between the typical form and $E.\ s.\ princeps$ from Transcaucasia; the latter subspecies lacks the lateral line almost entirely except just posterior to the head, and the dorsal spots are very pale in colour, being pale lemon.

Eumeces schneideri princeps Eichwald.

It appears to me, as pointed out above, that the *Eumeces* from Mardin are intermediate, as the lateral line and dorsal spots are not entirely lacking. Mertens (1924, p. 384), who has examined three specimens from this area, however, regards them as the above subspecies.

Ablepharus kitaibelii Bibron & Bory.

Distribution.—Izmir (Boettger); Petrota, Ephesus, Adana (Werner); Beikos on the Bosphorus (Werner, Coll. Betsch); Cilician Taurus (Werner, Coll. Siehle); Cilician Taurus (Venzmer); Istanbul (Werner, Coll. Bornmüller); Jarpuz and Kushjula (Werner).

Chalcides ocellatus ocellatus Forskål.

Distribution.—Adana (Werner).

OPHIDIA.

Typhlops vermicularis Merrem.

Distribution.—Bursa (Strauch & Steindachner, Coll. Mann); Izmir and Amasya (Boettger, Coll. A. Müller & Schneider); Ankara (Steindachner, Coll. Escherich &

Berthold); Mersin and Gulek (Werner, Coll. Holtz); Eskişehir (Werner); Izmir, Ephesus, Burnabat, Aydin, Manisa, Alaşehir, and Sari Keuy (Werner, Coll. Scherer); Jarbaschi, Atyk Koy, and Kushjula (Werner); Bulgar Dagh (Venzmer); Erdschias west of Kaiseri (Steindachner, Coll. Penther & Zederbauer); Izmir and Ankara (Boulenger, Coll. Gadeau de Kerville); Mardin (Mertens, Coll. Wolter).

Eryx jaculus Linnæus.

Distribution.—Izmir and Burnabat (Boettger, Coll. A. Müller & Th. Loebbecke); Milet (Werner, Coll. Vosseler), Jarpuz and Daz Dagh (Werner); Adana (Werner); Izmir (Boulenger, Coll. Gadeau de Kerville).

Natrix tessellatus tessellatus Laurenti.

Distribution.—Izmir (Boettger, Coll. A. Müller); Amasya (Boettger, Coll. Schneider); Trabzon (Bedriaga); Mersin (Werner, Coll. Holtz); Ankara (Steindachner, Coll. Escherich); Bulgar Dagh, Gülek, and Tarsus (Venzmer); Koksche Kissik (Werner, Coll. Vosseler); Izmir (Boulenger, Coll. Gadeau de Kerville); Adana (Werner); Mardin (Mertens, Coll. Wolter).

Natrix tessellatus vosseleri Werner.

Distribution.—From Antalya to Buldur (Werner, Coll. Vosseler); Amanus Mts. (Werner); Bulgar Dagh (Venzmer).

Natrix natrix persa Pallas.

Distribution.—Izmir (Boettger, Coll. A. Müller); Ankara (Steindachner, Coll. Escherich & Berthold); Meander Valley (Boulenger, Coll. MacAndrew); Buldur-Sandikli (Werner, Coll. Vosseler); Ephesus, Meles Valley near Izmir, Afyon Karahissar, Sari Keuy (Werner); Adana (Werner); Beikos on the Bosphorus (Werner, Coll. Betsch); Ilgin, Erschias Mts. (Steindachner, Coll. Penther & Zederbauer); Alexandretta (Werner); Ankara (Boulenger, Coll. Gadeau de Kerville).

B.M. reg. no. 15/4/35 1800 ft., between Fevzi Pasha and Gaziantep, from under stones, on damp ground near the Lake Arslan.

It is not at present possible to agree with Hecht's nomenclature of this subspecies (Syst. Ausbreitungs-

geschichte und Oekologie den Europaischen Arten der Gattung Tropidonotus (Kuhl), H. Boie, Mitt. Zool. Mus. Berlin, 16, Bd. ii. 1930, p. 244). In this treatise the subspecies persa is divided into several "varieties"; this cannot be accepted, owing to the great individual variation to be found throughout the whole species Natrix natrix, and I am satisfied that until considerably more material can be brought together Hecht's "varieties" must come under the subspecies persa. Ten specimens were examined by me from Asia Minor; eight were of the two-lined form, i. e., persa, the two which were not being immature specimens.

Coluber ater Venzmer.

Distribution.—Bulgar Dagh (Venzmer).

Coluber rhodorhachis Jan.

Distribution.—One specimen in the Museum Royale d'Hist. nat. Belg. Brussels, labelled Asia Minor (Werner).

Coluber ravergieri ravergieri Ménétries.

Distribution.—Trabzon (Martin); Karpak (Werner); Gülek (Werner, Coll. Holtz); Adana (Werner); Derinde near Eregli (Werner, Coll. Siehle); Bulgar Dagh (Venzmer); Mardin (Mertens, Coll. Wolter).

As pointed out below, the Taurus is an intermediate area between typical $C.\ r.\ ravergieri$ and typical $C.\ r.\ nummifer$, therefore those specimens from Derinde, Bulgar Dagh, Adana, and Gülek may be regarded as either subspecies. No specimens have been examined from these localities.

Coluber ravergieri nummifer Reuss.

Distribution.—Near Istanbul (Werner); Bulgar Dagh (Venzmer); Xanthus (Boulenger, Coll. Fellows & Haslar Collection); Budrum (Varniale).

Details of the above specimen:—Scales around the back 25, ventrals 206, subcaudals 93, præocular 2, subccular 1, postocular 2,

In this specimen the upper præocular plate is not in contact with the frontal. Mertens (1924, p. 387), who has examined the type of Coluber nummifer, agrees with Anderson ('Reptiles of Egypt,' vol. i. 1898, pp. 260 & 261) that nummifer is not a distinct species but a subspecies of Coluber ravergieri. Mertens gives details of the specimens obtained by Wolter in Mardin, and it appears that they are intermediate between the two, the number of scales around the body in three cases being 23; this is to be expected, as Mardin is an intermediate locality. In the British Museum there are two specimens from Budrum in Eastern Asia Minor identified as ravergieri by Boulenger, the number of scales around the back in each case being 23; in neither case is the præfrontal separated from the frontal. There are also two specimens from Xanthus and one from Rhodes with the same scale-count which Boulenger identified as nummifer; 23 is an uncommon scale-count in nummifer, but it is still less common in ravergieri; the Budrum specimens should be referred to nummifer, as should, of course, my specimen; specimens from the Taurus and East Asia Minor are intermediate. It is probable that the distribution given by Anderson ('Reptiles of Egypt,' pp. 260 & 261) is correct, i.e., that C. r. ravergieri occurs in Turkestan, Afghanistan, Persia, and Transcaucasia, and C. r. nummifer in Lower Egypt, Palestine, Syria, Asia Minor, Cyprus, and Rhodes. But within the areas occupied by each subspecies only about 70 per cent. of the specimens are typical.

Coluber najadum Eichwald.

Distribution.—Budrum (Boulenger); Mersin (Werner, Coll. Holtz); Ankara (Steindachner, Coll. Escherich); Haymana near Ankara (Berthold); Trabzon (Bedriaga); Meles Valley near Izmir (Werner); Adana (Werner); Amanus Mts., Kaipak (Werner); Gülek, Tarsus, and Bulgar Dagh (Venzmer).

I saw specimens of what I feel sure was this snake

at both Gaziantep and Malatya.

Coluber jugularis caspius Gmelin.

Distribution.—Sinop (Boettger, Coll. Retowski); Ankara (Steindachner, Coll. Escherich); Alaşehir (Werner); Sari

Keuy (Werner, Coll. Scherer); Ankara (Boulenger, Coll. Gadeau de Kerville).

B.M. reg. no.

| 1/6/35 | 3000 ft., Gaziantep, dry ground in cornfield.
| Colour: — Ventral scales scarlet-lake (new). Dorsal scales light red. Between the scales black, dorsal and ventral margins of scales cream-colour.

Number of ventrals 195. Subcaudals 47, probably 20 subcaudals missing. Although there are no specimens in the British Museum which approach this specimen in colour the pholidosis is the same as this subspecies. Boulenger ('Snakes of Europe,' p. 173) gives the colour of this subspecies as follows: "the upper parts are pale olive or reddish brown, with or without brown or black spots, and each scale bears a pale brown or yellowish streak; there is often a dark longitudinal streak on the nape; the belly is uniform red or orange." I saw two other specimens of this snake near Gaziantep; they were both the same colour as the above specimen, but I was able to collect neither of them.

Coluber jugularis asianus Boettger.

Distribution.—Budrum (Boulenger); Adana (Werner); Mersin (Werner, Coll. Holtz); Ebene, Gülek, and Tarsus (Venzmer); Charumji Maras, Airan (Werner).

Elaphe quatuorlineata sauromates Pallas.

Distribution.—Izmir (Boettger, Coll. A. Müller); Ankara (Berthold); Sultan Dagh near Akşehir and Afyon Karahissar (Werner, Coll. Bornmüller); Erdschias Mts. (Werner, Coll. Siehle); Sari Keuy (Werner, Coll. Scherer).

Elaphe taurica Werner.

Distribution.—Amasya (Boettger, Coll. Schneider); Gülek (Werner, Coll. Holtz); Amasya (Boulenger); Akşehir and Bulgar Dagh (Werner).

Elaphe situla Linnæus.

Distribution.—Izmir (Jan); Trabzon (Jan); Istanbul (Werner). Both the lined and the spotted forms occur in Asia Minor.

2 Cincerno culita from de

Elaphe longissima longissima Laurenti.

Distribution.—

B.M. reg. no.

1935.11.4.164...... \begin{cases} 21/5/35 & 300 ft., Belgrade Forest near Istanbul, Turkey in Europe. No. of ventral scales 229.

Coronella austriaca austriaca Laurenti.

Distribution.—Beikos on the Bosphorus (Werner, Coll. Betsch); Izmir (Venzmer).

B.M. reg. no.

21/5/35 Belgrade Forest near Istanbul, Turkey in Europe. 3/6/35 Belgrade Forest near Istanbul, Turkey in Europe.

Contia coronella Schlegel.

Distribution.—Adana (Werner); Mardin (Mertens, Coll. Wolter).

Contia modesta Martin.

Distribution.—Izmir (Boettger, Coll. A. Müller); Amasya (Boettger, Coll. Schneider); Manisa and Coast of Karien (v. Maltzan); Bursa (Gunther); Scutari (Boettger); Mersin and Gülek (Werner, Coll. Holtz); Meander Valley (Werner, Coll. MacAndrew); Bursa (Steindachner, Coll. Mann); Izmir (Jan); Ankara (Steindachner, Coll. Escherich); Milet (Werner, Coll. Vosseler); Isnik, Meles Valley near Izmir, Burnabat, and Aydin (Werner); Airan and Atyk Koy (Werner); Bulgar Dagh (Venzmer). Var. aurolineata: Taurus (Venzmer); Izmir and Ankara (Boulenger, Coll. Gadeau de Kerville); Adana (Werner); Mardin (Mertens, Coll. Wolter).

Observed by us at Indjisu, ten miles west of Gaziantep, on the Maras road.

Contia decemlineata Dum. & Bibr.

Distribution.—Adana (Werner); Mersin (Werner, Coll. Holtz); Bulgar Dagh (Venzmer).

B.M. reg. no. 1935.11.4.167-169.... 1 & 3/5/35 Gaziantep, 3000 ft., taken from under low stone-walls.

Other specimens were seen in this locality; it is probably quite common.

Oligodon melanocephalus septentrionalis Werner.

Distribution.—Adana (Werner).

Tarbophis savignyi Boulenger.

Distribution.—Bulgar Dagh (Venzmer).

Tarbophis fallax fallax Fleischmann.

Distribution.—Izmir (Boettger, Coll. A. Müller); Burnabat near Izmir (Boettger, Coll. Th. Loebbecke); Bursa (Steindachner, Coll. Mann); Gülek (Werner, Coll. Holtz); Milet, Akeuy (Werner, Coll. Vosseler); Amanus Mts. (Werner); Bulgar Dagh, Mersin, Gülek, and Adana (Venzmer).

Malpolon monspessulanus insignitus Geoffroy.

Distribution.—Hieronda in Karien (Boettger, Coll. v. Oertzen); Izmir (Boettger, Coll. A. Müller); Burnabat near Izmir (Boettger, Coll. Th. Loebbecke); Adana (Werner); Bulgar Dagh (Venzmer); Mardin (Mertens, Coll. Wolter).

Vipera lebetina xanthina Gray.

Distribution.—Budrum (Boulenger); Izmir (Boulenger & Boettger); Adana (Werner); Kar Boghaz, Cilician Taurus (Werner, Coll. Holtz); Ankara (Steindachner, Coll. Escherich); Ephesus (Werner); Spartakule near Istanbul (Werner, Coll. Betsch); Boz Dagh (Werner, Coll. Bodemeyer).

Mr. E. Schwarz tells me that in his forthcoming work on the vipers of Europe he has made bornmülleri synonymous with xanthina. Some of the specimens referred to from the above localities have previously been regarded as belonging to this subspecies. Also some of the above specimens have been referred to mauritanica Guich, but this well-defined subspecies from North Africa is now found not to occur in Asia Minor.

Vipera ammodytes meridionalis Boulenger.

Distribution.—Beikos on the Bosphorus (Werner, Coll. Betsch).

Vipera berus berus Linnæus.

Distribution.—Sabandja (Werner, Coll. Bodemeyer).

AMPHIBIA.

Rana ridibunda ridibunda Pallas.

Distribution.—Bursa (Steindachner, Coll. Mann); Ankara (Steindachner, Coll. Escherich); Izmir (Boettger, Coll. A. Müller & v. Maltzan); Amasya (Boettger, Coll. Schneider); Akşehir (Werner, Coll. Bornmüller); Bursa, Abullonia, Balukli, Inkaya, Gok-Dere, Olympus, Isnik, Eskişehir, Koksche Kissik, Saboundji, Bounar, Ephesus, Alayund, Aydin, Manisa, and Alaşehir (Werner); Sandikli, Konya, and Eskişehir (Werner, Coll. Vosseler); Ilgin and Soisaly (Steindachner, Coll. Penther & Zederbauer); Taurus (Venzmer); Bulgar Dagh, Gülek, Tarsus, Adana, and Mersin (Venzmer); Izmir and Ankara (Boulenger, Coll. Gadeau de Kerville); Mardin (Mertens, Coll. Wolter); Amanus Mts., Charumji, and Alexandretta (Werner).

B.M. reg. no.		
	14/4/35	Between Fevzi Pasha and Gaziantep, from still water, 1800 ft.
1935.11.4.1–17	15/4/35	Between Fevzi Pasha and Gaziantep, from still water, 1800 ft.
1935.11.4.24-27	24/3/35	Taken in pools, 200 ft., Justinian Aqueduct, near Istanbul, Turkey in Europe.
1935.11.4.18-20	20/5/35	River Sufras, near Besni, in the vilayet of Malatya, 3000 ft.
1935.11.4.28	21/5/35	Belgrade Forest, near Istanbul, Turkey in Europe.
1935.11.4.22-23	24/3/35	Taken in pools, 200 ft., near Justinian Aqueduct, Istanbul.
1935.11.4.21	7/4/35	Adana, still pool north of the town, sea-level.

Rana macronemis Boulenger.

Distribution.—Olympus near Bursa (Werner); Bursa (Boulenger); Akşehir (Werner, Coll. Bornmüller); Koksche Kissik (Werner, Coll. Vosseler).

Rana camerani Boulenger.

Distribution.—Alayund (Werner); Maidan Göl, Taurus (Werner, Coll. Holtz); Kaiseri (Werner, Coll. Siehle); Albistan (Boulenger, Coll. Danford); Akşehir (Werner, Coll. Korb); east and north side of Erdschias Mts. (Steindachner, Coll. Penther & Zederbauer).

Rana holtzi Werner.

Distribution.—Maidan Göl, Cilician Taurus (Werner, Coll. Holtz); Bulgar Maaden, Cilician Taurus (Werner, Coll. Bodemeyer).

Rana agilis Thomas.

Distribution.—Balukli near Bursa (Werner).

Bufo bufo bufo Linnæus.

Distribution.—Izmir (Boettger, Coll. A. Müller); Rise near Trabzon (Boettger, Coll. Retowski); Manisa (Werner).

B.M. reg. no.

1935.11.4.29-30..... 24/3/35

200 ft., marshy ground near Justinian Aqueduct, Istanbul, Turkey in Europe.

Bufo viridis viridis Laurenti.

Distribution.—Bursa (Steindachner, Coll. Mann); Trabzon (Boettger, Coll. Retowski); Bursa (Werner, Coll. Bornmüller); Izmir (Boettger, Coll. A. Müller); Albistan (Boulenger, Coll. Danford); Amasya, Izmir, Trabzon (Boettger, Coll. Schneider); Ankara (Steindachner, Coll. Escherich); Antalya and Afyon Karahissar (Werner, Coll. Vosseler); Alayund, Aydin, Alaşehir, and Manisa (Werner); Jarbaschi, Schechle, Daran, Atyk Koy, and Charumji (Werner); Erdschias Mts. (Steindachner, Coll. Penther & Zederbauer); Bulgar Dagh (Venzmer); Ankara (Boulenger, Coll. Gadeau de Kerville); Mardin (Mertens, Coll. Wolter).

B.M. reg. no.	
(8/4	/35 200 ft., Adana, S.E. Asia Minor, edge of still pool.
1935.11.4.36-40	4/35 200 ft., Adana, S.E. Asia Minor, edge of still pool.
1935.11.4.47 9/4	/35 Three miles north of Adana, 700 ft. The ground-colour of this specimen is vermilion-orange, the spots are oxide of chromium.
1935.11.4.41-45 11/4	/35 Adana, 500 ft., waste ground with scrub.
1935.11.4.49-55 20/4	/35 Indjisu near Gaziantep, 4000 ft., under stones on dry hill-side.
1935.11.4.48 23/4	/35 3000 ft., Gaziantep, dry ground on summit of hill.
1935.11.4.31-35 15 & 16/	5/35 3900 ft., Malatya, collected in pools.
1935.11.4.46	/35 Adana, still pool (several tadpoles), sea-level.

Hyla arborea arborea Linnæus.

Distribution.—Izmir (Boettger, Coll. A. Müller); Bursa (Steindachner, Coll. Mann); Olympus (Werner, Coll. Bornmüller); Ankara (Steindachner, Coll. Escherich); Bursa (Werner); Ankara (Boulenger, Coll. Gadeau de Kerville).

B.M. reg. no. 1935.11.4.56-60. 13 & 19 & 24/3/35 150 ft. Dug up, on dry hill-side, at Göksu, Bosphorus, Asia Minor.

Hyla arborea savignyi Audouin.

Distribution.—Giaour Dagh (Boulenger, Coll. Danford); Adana (Werner); Soisaly, Erdschias Mts. (Steindachner, Coll. Penther & Zederbauer); Bulgar Dagh, Gülek, Tarsus, and Mersin (Venzmer); Mardin (Mertens, Coll. Wolter); Alexandretta (Werner).

B.M. reg. no. 1935.11.4.61-63.... 14 & 15/4/35 Between Fevzi Pasha and Gaziantep. S.E. Asia Minor, 1800 ft.

Pelobates syriacus Boettger.

Distribution.—Izmir (Boulenger); Eskişehir (Werner); Cordelio near Izmir and Ephesus (Werner).

B.M. reg. no. 1935.11.4.64...... 14/4/35 Between Fevzi Pasha and Gaziantep, 1800 ft., S.E. Asia Minor, in still water.

Salamandra luschani Steindachner.

Distribution.—Tortukar Agassyin, Lycia (Luschan).

Salamandra caucasica Waga.

Distribution.—Trabzon (Werner).

Salamandra salamandra Linnæus.

Distribution.—Olympus near Bursa (Martens); Zebil, Bulgar Dagh (Boulenger, Coll. Danford); Adana (Werner); Izmir (Boettger); Bulgar Dagh (Venzmer); Adana (Werner); Bagdsche, Kushjula (Werner).

Triturus crocatus Cope.

Distribution.—Mus and Van (Steindachner); Buldur in Lycia (Werner, Coll. Vosseler).

Triturus vulgaris vulgaris Linnæus.

Distribution.—S. coasts of Black Sea (Boettger); Istanbul (Berthold); Izmir (Boettger, Coll. A. Müller); Cordelio near Izmir (Werner); Izmir (Boulenger, Coll. Gadeau de Kerville).

Triturus cristatus karelini Strauch.

Distribution.—Olympus near Bursa (Müller, F., Werner, Coll. Bornmüller); Cordelio near Izmir (Werner); Ephesus (Werner).

Triturus vittatus ciliciensis Wolterstorff.

Distribution.—Lycia (Lataste); Trabzon (Boulenger); Bursa (Steindachner, Boettger); Olympus near Bursa (Werner, Coll. Bornmüller).

B.M. reg. no.
1935.11.4.65-97..... 14/4/35 Ventral surface cadmium-orange.

From under stones in a moist place near the Lake Arslan. Between Feyzi Pasha and Gaziantep.

These specimens are all juveniles, probably one year old, and agree well with this subspecies, but are very dark on the dorsal side, almost black.

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EXPLANATION OF THE PLATES.

PLATE VI.

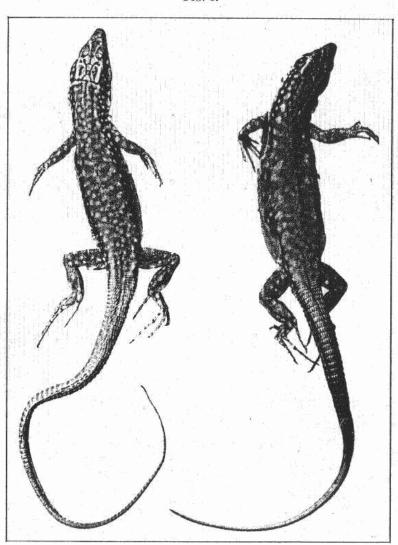
Fig. 1. δ and \S of Apathya cappadocica cappadocica from Hassan Dagh in Central Asia Minor, in the British Museum.

PLATE VII.

Fig. 2. $\$ paratype of A. c. wolteri from Mardin, in the Magdeburg Museum (faded slightly).

Fig. 3. $\$ type of A. c. wolteri from Gaziantep, in the British Museum.

Fig. 1.



Apathya cappadocica cappadocica. ♂ç from Hassan Dagh, Central Asia Minor.

Fig. 2.



Fig. 3,



Apathya cappadocica wolteri, subsp. n.

- (2) Paratype \mathcal{P} from Mardin. (3) Holotype \mathcal{P} from Gaziantep.