

THE CACOMITL CAT OF THE RIO GRANDE VALLEY.

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Professor Baird, on page 88 of his Mammals of North America, published in July, 1857, characterized the Cacomitl Cat under the name *Felis yaguarundi*, Desm., but in the synonymy of the species placed "*Felis cacomitl*, Berl. MSS.," and said: "A skull (No. 1426) of this species, in the collection of Dr. Berlandier, collected at Matamoras, with a full description of the animal by him, establishes a more northern range for this species than has hitherto been accorded. In its southern range it reaches as far as Paraguay. A full description of the skin and skull of this species will be found in the zoological report of the United States and Mexican Boundary Survey," where (p. 12) Baird quotes Berlandier's manuscript description. The name *Felis cacomitli*, as spelled by Berlandier, will date from the special report upon the Mammals of the Mexican Boundary, published in 1859, it being a *nomen nudum* as printed by Baird in 1857. The animal in question proves to be distinct from *Felis yaguarundi*,¹ and is described below:

FELIS CACOMITLI Berlandier.

CACOMITL CAT.

1857. *Felis cacomitl* BAIRD, Mammals of North America, p. 88, synonymy (*nomen nudum*).
1859. *Felis cacomitli* BERLANDIER, in Baird, Report United States and Mexican Boundary Survey, II, Mammals, p. 12 (original description).
1883. *Felis calomitti* ELLIOT, Monograph of the Felidae, p. 97, synonymy.

Characters.—Proportions as in other members of the *Felis yaguarundi* group. Larger than Azara's "yaguarundi" (= *Felis yaguarundi*)

¹ I have used the spelling of Azara, being uncertain as to the original reference. Trouessart's first reference is to Fischer's Zoognosia, but the name is not used in that work. Fitzinger's first binomial reference is "*Felis yagouarundi*. Geoffr. Catal. du Mus." [1803].

of authors); color lighter and grayer. Skull strongly constricted postorbitally, flattened superiorly. Mammæ, 3 pairs.

Color in summer (based on specimen No. $\frac{34355}{46441}$, U.S.N.M., Biological Survey collection; adult female, taken at Brownsville, Texas, June 14, 1892).—Seen at a distance, the animal appears of a nearly uniform smoke-gray color, without strong contrasts. On close inspection the under surfaces of body and tail are seen to be considerably paler than the upper, and certain light and dark areas are apparent. Upper-parts, including upper side of tail and outer surface of limbs, uniform pepper-and-salt gray; underfur and concealed bases of the coarse overhair whitish gray; overhair 10 to 20 mm. in length, pointed with black and ringed with white, buff, and black. Under-parts paler, many of the hairs, especially of axillæ and hollows of thighs, being tipped with whitish. Under surfaces of fore and hind feet strongly tinged with bistre. Under side of tail whitish smoke-gray, the overhairs narrowly ringed with black. Head with areas of light buffy gray bordering the blackish eyering, on chin and throat, and within and behind ear; a short, narrow line of blackish midway between eyes, and another between ears, and faintly brownish black edges to the ears; muzzle tinged with wood brown. Whiskers mostly white, shading apically to hair brown; stiff hairs above orbits, 10 to 15 mm. in length and uniform hair brown. Claws light horn color.

Color in winter (based on specimen No. $\frac{34617}{46000}$, U.S.N.M., Biological Survey collection; adult female, taken at Brownsville, Cameron County, Texas, February 23, 1892).—Darker, pelage longer, with a greater amount of black in vertebral area than laterally; under side of feet bistre, upper side more mixed with brownish black; otherwise similar to the summer pelage above described.

Skull and teeth.—Skull compressed in front of orbits and flattened above; braincase narrow and strongly constricted postorbitally; nasal processes of frontals ending well in front of the plane of malar bone; nasal bones elongated laterally and strongly depressed; zygomata relatively broad posteriorly; audital bullæ large and high, antero-laterally compressed; posterior narial fossa wide. The canines, upper carnassials, and middle superior premolars are about the size of the same teeth in specimen No. 10018, U.S.N.M., assumed to represent the *Felis yaguarundi tolteca* of Thomas; but the upper lateral incisor, first premolar, and true molar are larger teeth. A supernumerary first upper premolar is present, on the right side only, in female No. 35953, U.S.N.M., from Texas (see measurements).

Remarks.—Mr. Oldfield Thomas¹ separates a subspecies *tolteca* from the true *Felis yaguarundi* of Paraguay. I have identified with

¹ Annals and Magazine of Natural History, 7th ser., I, p. 41, January, 1898.

Thomas's *Felis yaguarondi tolteca*, the type of which came from Tete-
males, State of Sinaloa, Mexico, specimen No. 10018, U.S.N.M., from
Tehuantepec, Mexico. Although the skull of this specimen is longer
by 11 mm. than the type, it agrees with it so closely in proportions
that it must be regarded as probably conspecific. Besides the dif-
ference in the size of the upper true molar and first premolar, which
are much smaller, the skull is higher and more convex, zygomata
more massive, and audital bullæ lower and more inflated anteriorly
than in *Felis cacomitli*. The skull is also remarkable for the great
postorbital breadth of the braincase and for the brevity of the nasal
processes of the frontal bones, which end on a line vertically over the
anterior extremities of the jugals. *Felis cacomitli* requires no color
comparison with *Felis yaguarondi tolteca*. Mr. Thomas regarded the
latter as probably the same as Baird's "*Felis cacomitl*, Berl. MSS.,"
in the synonymy of *F. yaguarondi*, but did not consider the name
tenable.

External measurements.—Average of two adult females (described
above): Length, 1060 mm.; tail vertebrae, 480; length of hind foot,
140; height of ear above crown, 40.

Cranial measurements.—I have used the same cranial measurements
as Thomas, for convenience of comparison with *Felis yaguarondi*
tolteca, those of his type following in parenthesis those of specimen
No. 35645, U.S.N.M., an adult male of *Felis cacomitli* from Texas:
Basilar length of Hensel, 95 (82); zygomatic breadth, 70 (64); least
interorbital breadth, 20 (18); intertemporal breadth, 30 (33.5); breadth
of braincase above auditory meatus, 46 (43); palate, length from hen-
selion to posterior edge, excluding median notch, 40.7 (36); breadth
between outer corners of carnassials, 39 (38.7); breadth of posterior
narial fossa, 13.3 (14); front of canine to back of carnassial, 31 (28.7);
length of upper carnassial, 13 (11.3); length of lower carnassial, 9 (9).

Average and extremes of four adult females from Texas and Mata-
moras, Mexico: Basilar length of Hensel, 87.4 (85.5–89); zygomatic
breadth, 64.5 (64–66); least interorbital breadth, 18 (17–19); intertem-
poral breadth, 29.5 (28.5–30); breadth of braincase above auditory
meatus, 44 (43–45); palate, length from henselion to posterior edge,
excluding median notch, 36.4 (36–37); breadth between outer corners
of carnassials, 38 (37–38.5); breadth of posterior narial fossa, 12.9
(12.7–13); front of canine to back of carnassial, 29.5 (28.5–30); length
of upper carnassial, 12.5 (12.3–12.8); length of lower carnassial, 8.9
(8.8–9).

Detailed cranial measurements of *Felis yaguarondi tolteca* and *F. cacomilli*.

Name.	<i>Felis yaguarondi tolteca</i> Thomas.		<i>Felis cacomilli</i> Berlandier.				
	Male, type of <i>Felis yaguarondi tolteca</i> (from Thomas).	Male (?) No. 10018, Tehuantepec, Mexico.	Male, No. 35645, Brownsville, Texas.	Female, No. 35953, Brownsville, Texas.	Female, No. 46441, Brownsville, Texas.	Female, No. 46441, Brownsville, Texas.	Female, type of <i>Felis cacomilli</i> , Matamoros, Mexico, No. 1426.
Sex, number, and locality.							
Basilar length of Hensel	82	93	95	88	89	87	85.5
Zygomatic breadth	64	70	70	64	66	64	64
Least interorbital breadth	18	22	20	18	19	17	18
Intertemporal breadth	33.5	35	30	29.5	30	28.5	30
Breadth of braincase above auditory meatus	43	47	46	45	44	43	44
Palate, length from hensenion to posterior edge, excluding median notch	36	38	40.7	36.7	37	36	36
Breadth between outer corners of carnassials	38.7	40.3	39	38	38.5	37.5	37
Breadth of posterior nasal fossa	14	14.3	13.3	13	12.7	13	13
Front of canine to back of carnassial	28.7	30	31	28.5	29.5	30	30
Length of upper carnassial	11.3	12.3	13	12.5	12.8	12.5	12.3
Length of lower carnassial	9	9	9	8.8	9	9	8.9