

A NEW SPECIES OF *EUCNIDE* (LOASACEAE) FROM CHIAPAS, MEXICO

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ABSTRACT

A new taxon, *Eucnide chiapasana* B.L. Turner, sp. nov., is described from the Tropical Deciduous Forest of Chiapas, Mexico. It is presumably most closely related to the more arid, *E. hypomalaca*, a species of the Sonoran Desert. A photograph of the holotype is provided, along with maps showing distributions of the taxa concerned.

KEY WORDS: Loasaceae, *Eucnide*, *Eucnide hypomalaca*, *Eucnide arida*, Mexico, Chiapas

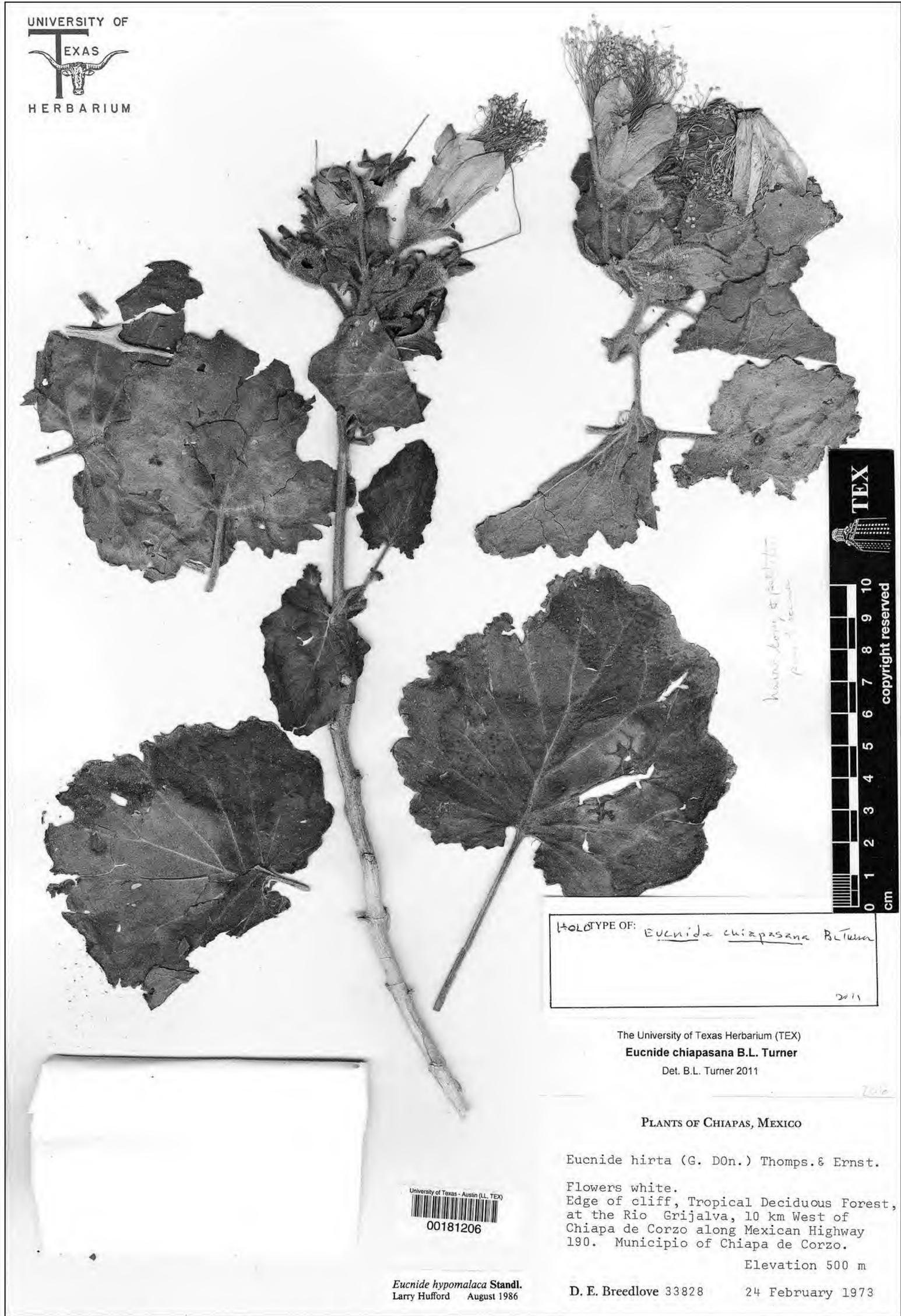
Routine identification of Mexican plants has brought to light a previously undescribed species of *Eucnide*. Thompson and Ernst (1967) provided an excellent treatment of the genus, but unfortunately, none of the specimens of the present novelty was available at the time of their study. In their key to species the taxon will key to or near *E. hypomalaca* Standl., a species of the Sonoran Desert (Fig. 2). The two taxa differ in numerous morphological characters.

EUCNIDE CHIAPASANA B.L. Turner, sp. nov. Figure 1. **TYPE: MEXICO. Chiapas.** Mpio. Chiapa de Corzo, at the Rio Grijalva, 10 km W of Chiapa de Corzo along Mexican Highway 190, edge of cliff, Tropical Deciduous Forest, 500 m, 24 Feb 1973, *D.E. Breedlove 33828* (holotype: TEX; isotype: CAS).

Resembling *Eucnide hypomalaca* Standl. but the leaves more nearly cordate with much broader blades (10–15 cm wide vs 3–6 cm), peduncles densely pubescent with numerous elongate, non-peltate hairs 1–2 mm long (vs mostly peltate and ca 1 mm long); anthers 4-sided, ca 1.5 times as long as wide (vs reniform to ovoid and as long as wide), minutely pubescent when first formed (vs not so).

Suffruticose perennial herbs to 30 cm high. **Mid-stems** 5–7 mm thick, densely pubescent with long, acicular trichomes, 1–2 mm long, beneath these a more densely array of short peltate hairs. **Leaves** at mid-stem (10–)15–20 cm long, 8–15 cm wide; petioles (3–)6–10 cm long; blades cordate (rarely not), pinnately nervate, pubescent above and below like the stems, the margins with ca 9, broadly rounded, lobes, the sinuses 0.5–1.0 cm deep. **Flowers** 6–9 in terminal congested racemes 6–10 cm long, and as wide; peduncles relatively short, 1–2 cm long. **Sepals**, 1–2 cm long, 4–5 mm wide. **Corollas** reportedly white or “pale yellow” (*Neill 5515*), the petals 3–4 cm long, 1.5–2.0 cm wide, united at base for ca 2 mm. **Stamens** numerous (ca 200 or more), mostly exceeding the petals in length; anthers somewhat quadrate in shape, ca 1 mm long, 0.75 mm wide; young anthers minutely pubescent with glandular hairs, these shedding with age. **Fruits** obpyramidal, ca 1.5 cm long, 1.3 cm wide, densely pubescent like the stems; seeds ca 1 mm long.

Additional specimens examined. MEXICO. OAXACA. Mpio. Chiapa de Corozo, steep bank of Rio Grijalva along Mexican Hwy 190 between Chiapa de Corzo and Tuxtla Gutz, 300 m, 3 Dec 1971, *Breedlove 22956* (CAS). Mpio. Ocozocoautla de Espinosa, head of the Rio de la Venta, near Derna, 800–1000 m, 3 Dec 1971, *Breedlove 27401* (CAS); same locality, 24 Dec 1976, *Breedlove 42864* (CAS); same locality, 11 Oct 1979, *Breedlove 44383* (CAS); same locality, 16 Dec 1972,



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HOLOTYPE OF: *Eucnide chiapasana* B.L. Turner
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The University of Texas Herbarium (TEX)
***Eucnide chiapasana* B.L. Turner**
Det. B.L. Turner 2011

PLANTS OF CHIAPAS, MEXICO

Eucnide hirta (G. Don.) Thoms. & Ernst.
Flowers white.
Edge of cliff, Tropical Deciduous Forest,
at the Rio Grijalva, 10 km West of
Chiapa de Corzo along Mexican Highway
190. Municipio of Chiapa de Corzo.
Elevation 500 m
D. E. Breedlove 33828 24 February 1973

University of Texas - Austin (LL, TEX)
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Eucnide hypomalaca Standl.
Larry Hufford August 1986

Figure 1. *Eucnide chiapasana* B.L. Turner (holotype, TEX).

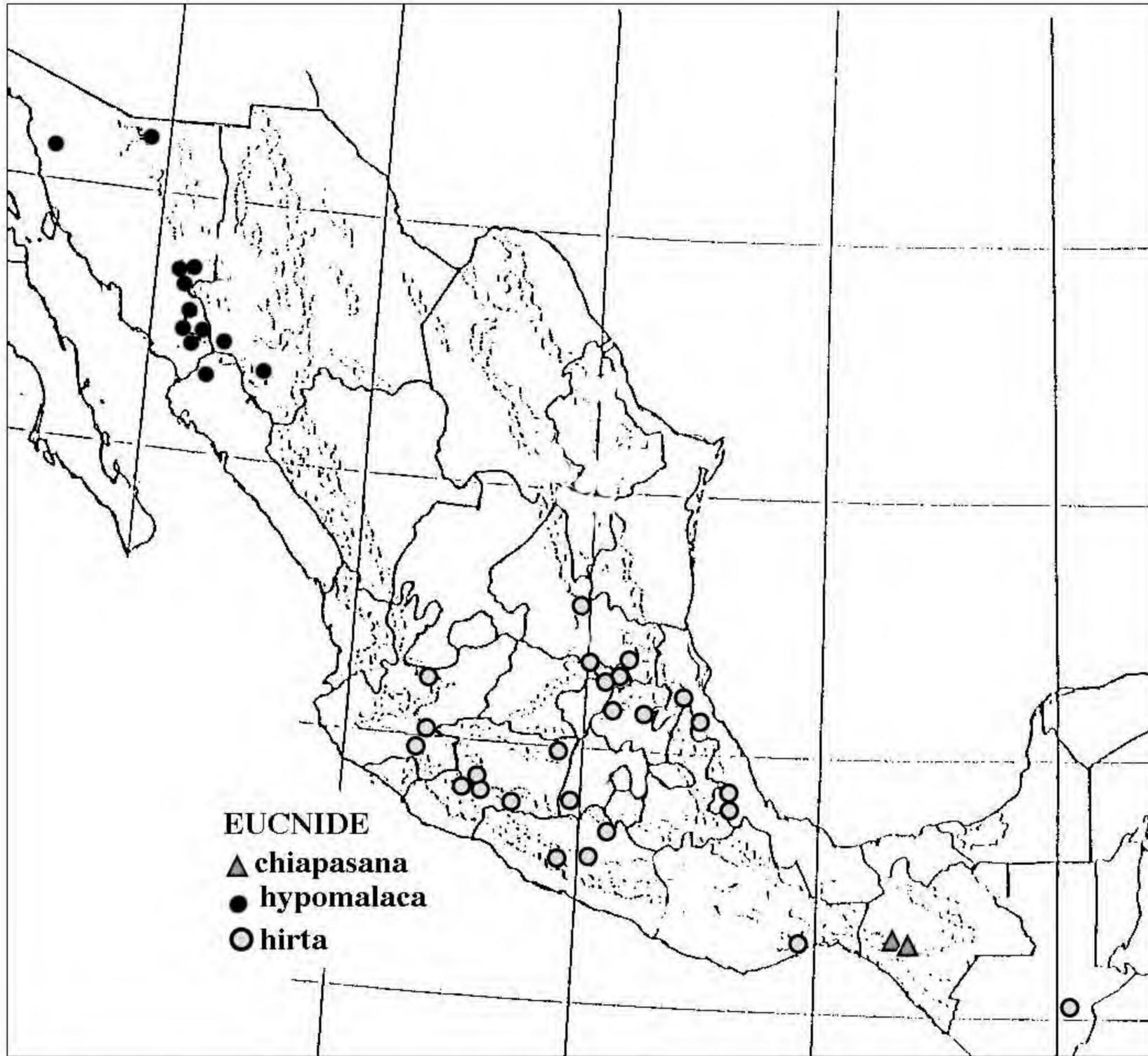


Fig. 2. Distribution of *Eucnide chiapasana*, *E. hirta*, and *E. hypomalaca*.

Breedlove & Thorne 30302 (CAS); steep walled limestone canyon of Rio de Venta near Cascada El Aquacero, 15 km W of Ocozocuautila on Hwy 190, then 3 km N, 12 Mar 1983, *Neill 5515* (CAS).

Eucnide chiapasana is a very distinct species, as noted in the diagnosis. Hufford (1988) annotated all of the specimens cited above as *E. hypomalaca*, these similar to the latter in habit and flower size. The novelty is also superficially similar to the widespread and quite variable *E. hirta*, the latter readily distinguished by its narrow corollas and much fewer stamens. Distribution of all three taxa is shown in Figure 2.

A notable trait of *Eucnide chiapasana* is the anthers, which are elongate-quadrangle, resembling the head of a rattlesnake when young, and possessing minute hairs that are deciduous with maturity. Such hairs were found on both of the types. The young anthers of *E. hypomalaca* are essentially ovoid and glabrous.

Hufford (1988) has provided a scanned electron micrograph of the seed from the isotype of *Eucnide chiapasana* (his Figs. 19 and 20, which are labeled as *E. hypomalaca*).

The species is named for the state of Chiapas, Mexico, to which it seems confined (Fig. 2).

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