

Longicorn ID 2

Tool for Diagnosing Cerambycoid Families,
Subfamilies, and Tribes



By Eugenio H. Nearn, Nathan P. Lord, Steven W. Lingafelter, Antonio Santos-Silva, and Kelly B. Miller

<http://cerambycids.com/longicornid/>

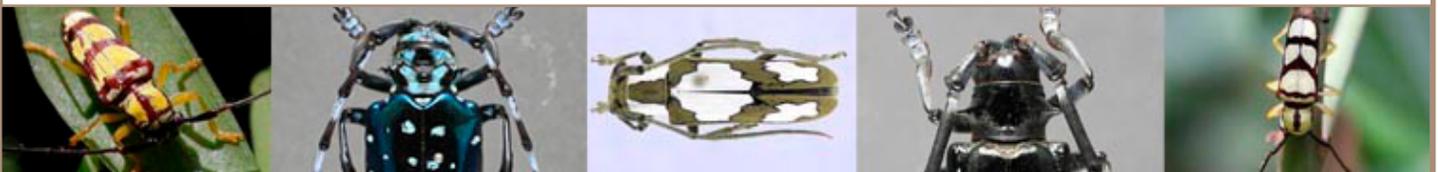
Cerambycoid beetles include the large family Cerambycidae and three smaller families: Disteniidae, Oxypeltidae, and Vesperidae. Together, these families are a charismatic and economically important group of beetles with an estimated 4,000 genera and 35,000 described species worldwide. When complete, *Longicorn ID* will provide identification support to the four families, 14 subfamilies, and 250 tribes. This update adds a Lucid key to the tribes of Lamiinae, as well as fact sheets for the 82 tribes and dorsal habitus photographs of 568 exemplar specimens. Of these new images, 251 are of holotype specimens, making this tool particularly valuable for accurate identification.

Cerambycoids (also known as “longhorned beetles” or simply “longicorns”) are among the most serious wood-boring pest species in the world, affecting various agricultural crops, ornamental trees, and lumber products, causing millions of dollars in damage each year. The subfamily Lamiinae is the largest within Cerambycidae. It currently contains nearly 21,000 species in 3,039 genera and 82 tribes. Included in this subfamily is the notorious Asian Longhorned Beetle (ALB). In

1996, this invasive species was discovered in New York City and later in Chicago. Native to China and the Korean peninsula, ALB was accidentally imported into the U.S. via wooden shipping materials. By 1998, ALB infestations resulted in the destruction of nearly 7,000 trees. Recently, the USDA estimated that, if left uncontrolled, ALB and other Chinese wood boring beetles could cause more than \$100 billion in damage to the U.S. economy.

Due to the large size of this group of beetles, the development of Longicorn ID has been broken into phases. The first phase, released in 2012, included keys to the families and subfamilies, as well as to all tribes but those of the three largest subfamilies of Cerambycidae: Lamiinae, Lepturinae, and Cerambycinae. Keys and fact sheets for the tribes of the subfamilies Lepturinae and Cerambycinae will be added to the tool in early 2015.

Featured in the tool are a morphological atlas, a gallery, fact sheets for each taxonomic level, a glossary, and multiple dichotomous and interactive keys. Please contact Eugenio Nearn (gino@nearns.com) with any comments or questions.



Longicorn ID 2 is one of over 35 online identification tools for plant pests and diseases produced by the Identification Technology Program (ITP). To learn more, please visit <http://idtools.org> or email the ITP team in Fort Collins, Colorado (itp@aphis.usda.gov).