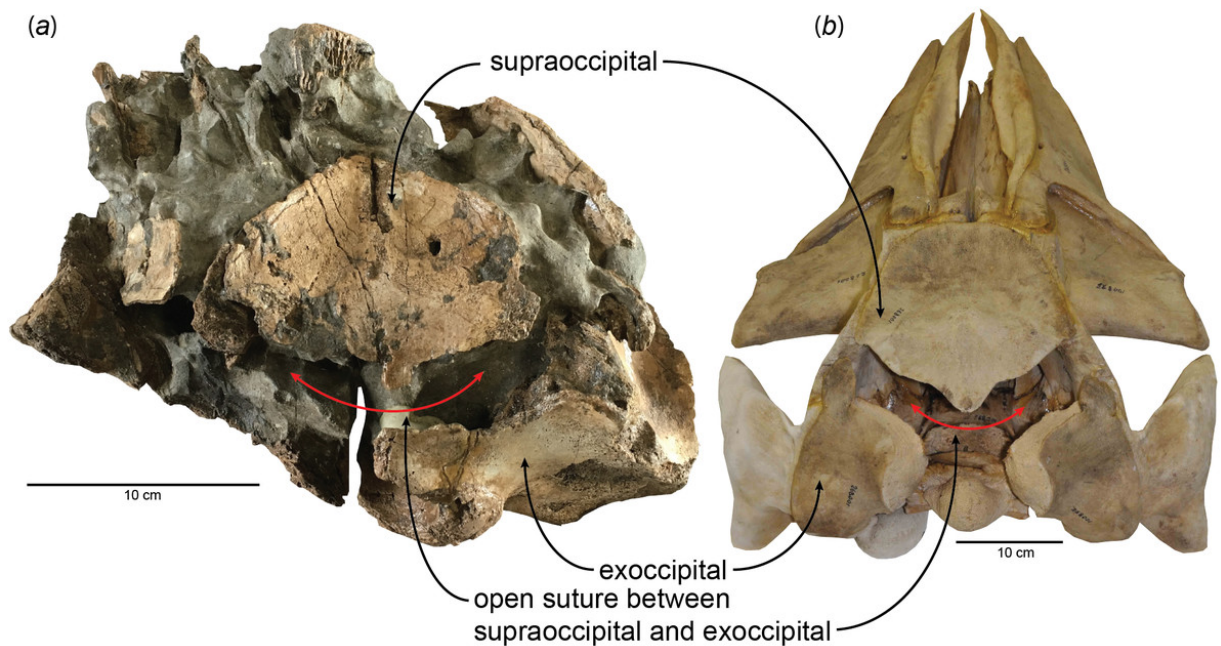


# A potential breeding site of a Miocene era baleen whale

August 22 2017



Open suture between the supraoccipital and exoccipital in (A) a fossil baleen whale (*Parietobalaena yamaokai*) and (B) a fetal specimen of blue whale, *Balaenoptera musculus*. Credit: Cheng-Hsiu Tsai.

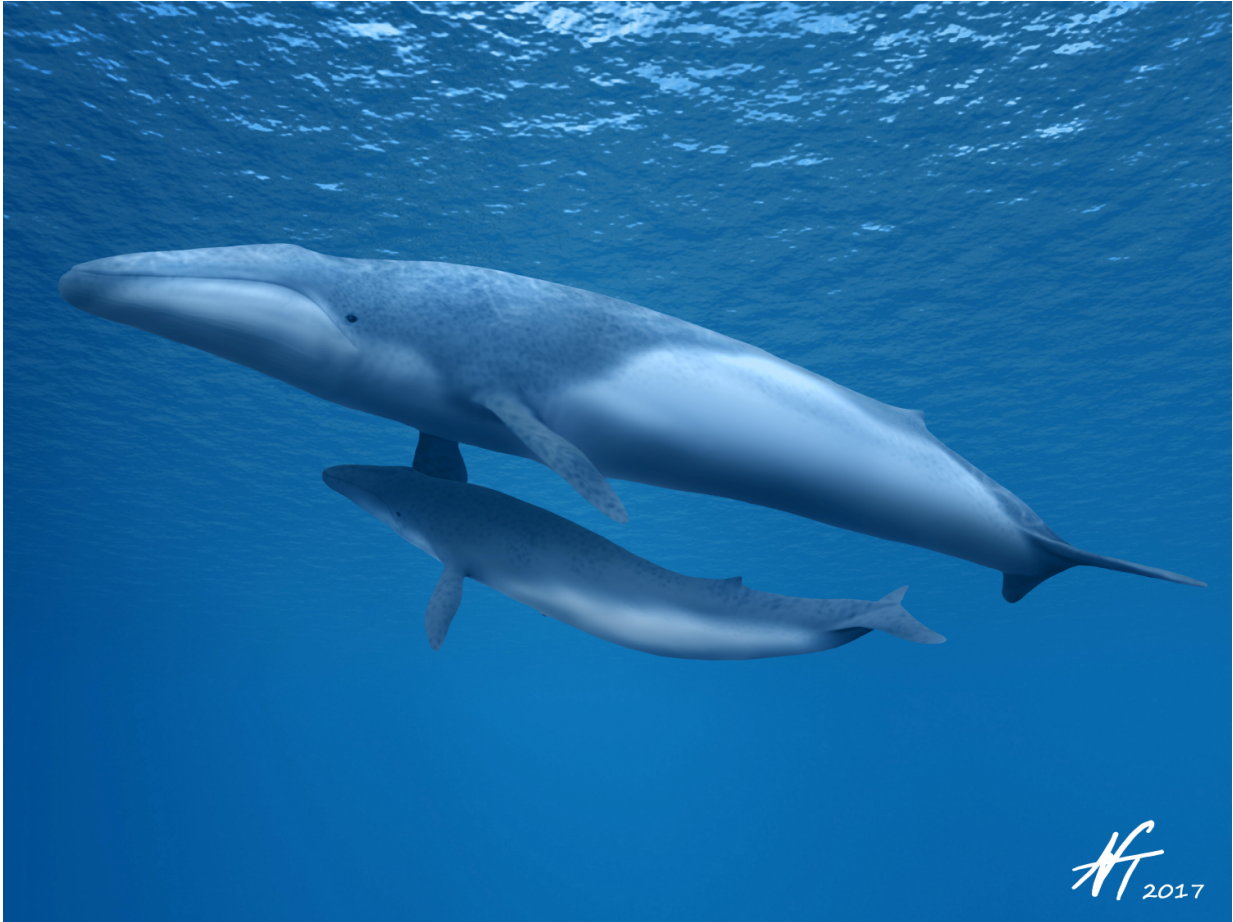
Baleen whales are amongst the largest animals to have ever lived and yet very little is known about their breeding habits. One researcher's second look at previously found baleen whale fossils from Japan provides new evidence of a now long-gone breeding ground of the extinct baleen whale *Parietobalaena yamaokai* dating back over 15 million years.

The research published in the open-access journal *PeerJ* elaborates on the evidence of the presence of a very young individual of an extinct baleen whale, along with the occurrence of several fossil specimens of the same whale [species](#). This study claims to have discovered a very uncommon case—a breeding ground for a long extinct large whale.

Researcher Cheng-Hsiu Tsai noticed the open suture in the skull of one fossil specimen, which indicates the preservation of a very young whale—under six months old, perhaps even close to a new-born calf. The [fossil specimens](#) investigated were originally found in the 20th century and are currently held at the Hiwa Museum for Natural History, Shobara, Hiroshima, Japan.

Identifying breeding grounds of living species of [whales](#) are incredibly rare, let alone for extinct Miocene species. For example, scientists are not certain where the endangered western gray whales reproduce, in turn leading to no concrete strategies to recover this critically endangered population of around 100 individuals.

The discovery of an ancient paleo-breeding site, which dates back to 15 million years ago, could provide new insights into the future of baleen whale survival. In a rapidly changing world, locating breeding sites and understanding why a breeding site disappeared may subsequently lead to information on how best to respond in order to conserve these living endangered populations.



Life restoration of a mother-calf pair of *Parietobalaena yamaokai*. Credit: Nobumichi Tamura

**More information:** Cheng-Hsiu Tsai, A Miocene breeding ground of an extinct baleen whale (Cetacea: Mysticeti), *PeerJ* (2017). [DOI: 10.7717/peerj.3711](https://doi.org/10.7717/peerj.3711)

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Citation: A potential breeding site of a Miocene era baleen whale (2017, August 22) retrieved 23 April 2024 from <https://phys.org/news/2017-08-potential-site-miocene-era-baleen.html>

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