

HOW TO BUILD A BIG WHALE SKELETON

VERSION 1.0  
 THE BONE BUILDING BOOK VOL. 2  
 THE BONE BUILDING SYSTEMS MANUAL  
 11/1/10

**OMURA'S WHALE - BALAENOPTERA OMURAI**  
**OTHER NAMES: DWARF FIN WHALE**

KINGDOM: ANIMALIA  
 PHYLUM: CHORDATA  
 CLASS: MAMMALIA  
 ORDER: CETACEA  
 SUBORDER: MYSTICETI  
 FAMILY: BALAENOPTIDAE  
 GENUS: BALAENOPTERA  
 SPECIES: OMURAI

**Appearance**

The Omura's whale has a broad, flat head. It possesses a long, slender brownish-black body with a pale-colored belly.

**Average length**

Male - 11.5m  
 Female - 12m  
 Calf at birth - 4m

**Average weight**

Male - 10 Tons  
 Female - 12 Tons  
 Calf at birth - 1 Ton

**Endangered Species**

It is an endangered species but the exact population size is unknown due to lack of data.

**CITES**

Appendix II

**Reproduction**

- The Omura's whale generally leads a solitary life.
- The breeding location of this species is unknown.
- Males reach sexual maturity at 8-13 years, with females maturing sexually at 7-10 years.
- Gestation lasts about 12 months and the calves are weaned after 6 months.
- New born calves are about 4m in length, weighing nearly a ton.

**Sources of Food**

Omura's whales' major food sources are krill, copepods and small fish.

**角島鯨**  
**別名: 矮長鬚鯨**

界：動物界  
 門：脊索動物門  
 綱：哺乳綱  
 目：鯨目  
 亞目：鬚鯨亞目  
 科：鬚鯨科  
 屬：鬚鯨屬  
 種：角島鯨

**外觀**

角島鯨有闊平的頭部, 身型修長而苗條, 背側和旁側均呈棕黑色, 而腹部則呈白色。

**平均長度**

雄鯨-11.5米  
 雌鯨-12米  
 幼鯨(初生)-4米

**平均重量**

雄鯨-10噸  
 雌鯨-12噸  
 幼鯨(初生)-1噸

**瀕危物種**

角島鯨是一個瀕臨滅絕的物種, 由於有數種捕和文獻有限, 未能夠確定其族群的精確數目。

瀕臨絕種野生動物國際貿易公約  
 附錄二

**繁殖**

角島鯨通常都是獨立生活的個體。  
 該物種的繁殖位置未夠確定。  
 雄鯨會於8-13歲時性成熟, 雌鯨則會在7-10歲踏入性成熟的階段。  
 妊娠期約為12個月, 幼鯨在出生後6至7個月才毋須跟哺母乳。  
 初生的幼鯨身長大約4米, 體重為1噸左右。


**食物來源**


角島鯨的主要食物來源是磷蝦, 橈足類生物和小型的魚類。








## Whale Skeleton Treatment Procedures 處理鯨魚骨骼的程序


1. 

As much soft tissues like muscles, internal organs and skin were removed from the body to leave an outline skeleton.  
身體上的軟組織如肌肉、內臟和皮膚等會被移去，只留下一副骨架的輪廓。
2. 

Bones were left in wooded environment to let maggots consume most of the remaining of soft tissues attached to the bones.  
骨骼將於無遮蓋的環境下任由蛆蟲進食從而消耗大部分殘餘在骨骼上的軟組織。
3. 

The bones were placed in "maceration tanks" for two months to remove the soft tissues from the bones by fermentation and digestion by microbes.  
骨骼會被放置在浸缸中二個月，通過發酵以微生物的消化過程以去除骨骼上餘下的軟組織。
4. 

Once a week, the bones were taken out of the tanks to brush away remaining soft tissues and excess fatty deposits present on the bone surface.  
每週一次從浸缸中取出骨骼，然後用刷刷掉骨骼表面上殘留的軟組織和累積的脂肪。
5. 

The turbid maceration fluid was partially drained and topped at least once a week. After two months the tank was drained completely.  
浸缸中部份的混濁浸漬液至少每週一次被排走，然後再從新注入相同份量的清水到缸中，兩個月後，浸缸中的所有液體將會完全被排走。
6. 

The tanks were then refilled with clean water and the water was heated to 90 degrees centigrade to assist removal of oil from the core of the bone.  
浸缸會再被注入清水然後加熱到攝氏90度，以去除骨骼中的油份。



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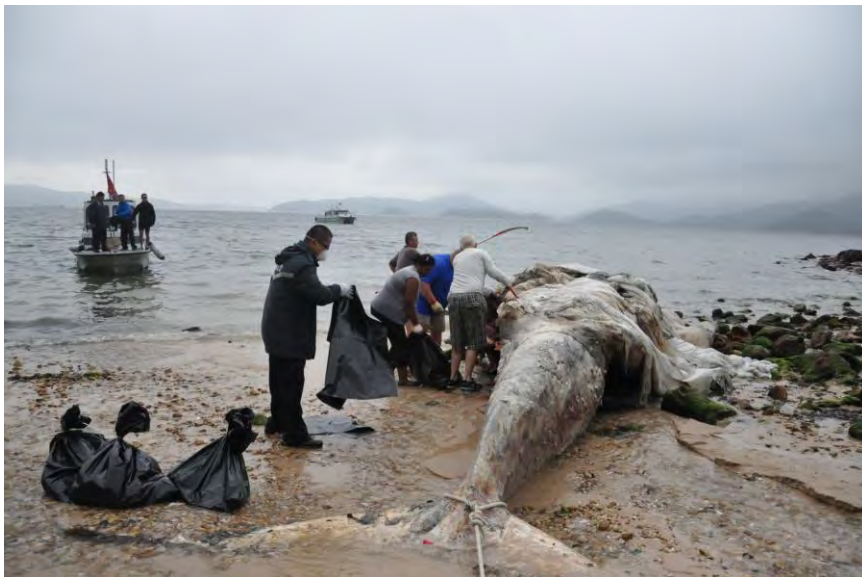
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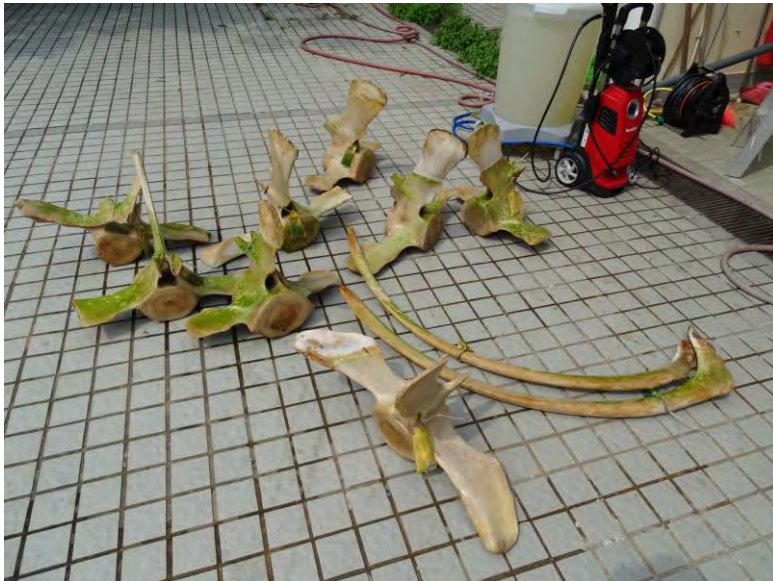
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Thank you  
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OUT TAKES  
THE TEAM IN ACTION























- THE END