**Online Supplemental Material**

**Online Supplemental Material for Fujii. et al; “LIMB USE BY FORAGING MARINE TURTLES, AN EVOLUTIONARY PERSPECTIVE”**

In this supplemental material, we present more detailed information of the observed limb-use behaviors in marine tetrapods

**Table S1. List of marine tetrapods known to use limbs for feeding, prey type consumed and feeding habitat when behaviors were observed, limbs typically used for propulsion, and links to videos with examples of behaviors.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Family | Species | Limb Behavior | Limb Used in Feeding | Propulsion | Prey Type | Feeding Habitat | Videos of limb behavior*Ŧ* | Video Accessed Date |
| Cheloniidae | *Eretmochelys imbricata* | Leveraging  Corralling  Holding | Foreflipper | Foreflippers | Porifera,  Cnidaria | Epipelagic  Sea grass  Coral reef | <https://youtu.be/TaJPBDRh7Wo>  <https://youtu.be/tocQlwgJITE> | Accessed 20 Nov 2017  Accessed 20 Nov 2017 |
|  | *Chelonia mydas* | Digging[1]  Leveraging  Swiping  Corralling | Foreflipper | Foreflippers | Sea grass,  Porifera,  Cnidaria,  Macroalgae | Coral reef | <https://youtu.be/7O7WNg9oNq8>  <https://youtu.be/L4x4bJI5mdo> | Accessed 20 Nov 2017  Accessed 20 Nov 2017 |
|  | *Caretta caretta* | Swiping[2]  Digging[2] | Foreflipper | Foreflippers | Mollusca | Soft sediment | <https://youtu.be/XZUptZNkdSs> | Accessed 20 Nov 2017 |
| Trichechidae | *Trichechus manatus.* | Corralling [3]  Digging[3] | Foreflipper | Tail | Macroalgae | Soft sediment | <https://youtu.be/Cx5FrxGTOAQ?t=2m44s> | Accessed 20 Nov 2017 |
| Dugongidae | *Dugong dugon* | Corralling[3] | Foreflipper | Tail | Sea grass | Sea grass |  |  |
| Delphinidae | *Orcinus orca* | Striking[4]  Tossing10] | Tail | Tail | Pinniped  Fishes | Epipelagic | <https://youtu.be/G7WGIH35JBE> | Accessed 20 Nov 2017 |
|  | *Tursiops aduncus* | Kerplunking[5] | Tail | Tail | Fishes | Soft sediment | <https://youtu.be/4BSC7tm1Efc?t=2m2s> | Accessed 20 Nov 2017 |
| Balaenopteridae | *Megaptera novaeangliae* | Lobtail[6] | Tail | Tail | Fishes | Epipelagic |  |  |
| Mustelidae | *Enhydra lutris* | Holding[7]  Leveraging[7]  Digging[7]  Pounding[7] | Forepaws | Hindflippers | Mollusca  Crustacea | Rocky Benthic  Kelp Forest  Soft sediment | <https://youtu.be/-HVNpndnf1M> | Accessed 20 Nov 2017 |
| Odobenidae | *Odobenus rosmarus* | Digging [8] | Foreflipper | Hindflippers | Mollusca | Soft sediment | <https://youtu.be/QiaOVYXbV7E> | Accessed 20 Nov 2017 |
| Otariidae | *Neophoca cinerea* | Holding[9]  Leveraging[9] | Foreflipper | Foreflippers | Fishes | Epipelagic  Rocky Benthic | <http://onlinelibrary.wiley.com/doi/10.1111/mms.12384/suppinfo> | Accessed 20 Nov 2017 |
| Phocidae | *Phoca vitulina* | Holding [10]  Digging [11] | Foreflipper | Hindflippers | Fishes | Epipelagic  Benthic | <https://youtu.be/Rq7O8DRZqZ4> | Accessed 20 Nov 2017 |
|  | *Halichoerus grypus* | Holding[12] | Foreflipper | Hindflippers | Pinniped | Epipelagic | <https://vimeo.com/119776916> | Accessed 20 Nov 2017 |

***Ŧ***Videos were posted publicly on video platforms such as Youtube or Vimeo, found by searching for the species common name and the term “feeding” or “foraging”.

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