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## **Original Scientific Photographs**

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The Decapoda crab *Matuta planipes* (*Fabricius*, 1798) is usually found in marine reaches as well as mouth of estuaries. It belongs to family Calappidae. It is distributed from Southeast Asia to Australia and westward to India. This crab is known and reported as predator of flounder fishes. Mostly found in sandy zones and showed typical predatory behavior. On 27<sup>th</sup> July 2008 we observed adult M. *planipes* (Carapace width = 8 cm including lateral spines) predating on other crab *Macrophthalmsus dilatatus* (Lancheser, 1900), on the intertidal reach of Mahi river estuary (22°12′52.38" N - 72°37′17.89" E), Gujarat, India. The crab partially buries itself under the sandy substrata and predates on the other inhabitant *M. dilatatus* abundant in sandy zone. Also, observation and sampling of the area from 2006 to 2008 illustrated that both the predator and prey species were specific in substratum preference and habitat utility (90 -94% sand and 6-10% silt-clay). Picture characteristics: Canon PowerShot S70; Resolution of 4 megapixels; autofocus; automatic regulation; Image cropped.

## References

Ng, P. K. L., Guinot D. and Davie P. J. F., 2008. Systema Brachyurorum: Part 1: An annotated checklist of extant brachyuran crabs of the world. **The Raffles Bulletin of Zoology**., 17: 1-286.

Hossain, M. A. R and Tanaka, M. 2002. Predator-prey interaction between hatchery-reared Japanese flounder juvenile, *Paralichthys olivaceus* and sandy shore crab, *Matuta lunaris*: daily rhythms, anti-predator conditioning and starvation. **J. Exp. Mar. Biol. And Ecol.** 26: 1-14.

Fatima, M. 2003. Length weight study of two species of crabs *Matuta planipes* and *Matuta lunaris* from Karachi, Pakistan. **Pakistan Journal of Biological Science**, 6(4):397-398.

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