

Gonodactylus smithii

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Gonodactylus smithii, the **purple spot mantis shrimp**, is a species of mantis shrimp of the *smasher* type.^[2] It is found from New Caledonia to the western part of the Indian Ocean,^[2] including Australia's north coast and the Great Barrier Reef.^[1]

It is the only organism known to simultaneously detect the four linear and two circular polarization components required for Stokes parameters, which yield a full description of polarization. It is thus believed to have optimal polarization vision.^{[3][4][5][6]}

The specific epithet *smithii* is in commemoration of Sir Percy William Basset-Smith.^[7]

References

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Scientific classification

Kingdom:	Animalia
Phylum:	Arthropoda
Subphylum:	Crustacea
Class:	Malacostraca
Order:	Stomatopoda
Family:	Gonodactylidae
Genus:	<i>Gonodactylus</i>
Species:	<i>G. smithii</i>

Binomial name

Gonodactylus smithii

Pocock, 1893 ^[1]

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Categories: Stomatopoda | Indo-Pacific crustaceans | Animals described in 1893

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