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# BIONOTES

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On Any Aspect Related with Life Forms

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# FIRST RECORD OF DESERT BATH WHITE BUTTERFLY *PONTIA GLAUCONOME* (KLUG, 1829) (LEPIDOPTERA: PIERIDAE) FROM RAJASTHAN, INDIA

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Reviewer: Piet van der Poel

## Abstract

The Desert Bath White butterfly *Pontia glauconome* is reported for the first time from Rajasthan, India.

## Introduction

The Desert Bath White *Pontia glauconome* (Klug, 1829) is widely distributed across arid zones from Cape Verde, across northern Africa, Kenya, Somalia, Sudan, Chad, to the Arabian Peninsula, Israel, Iran, Iraq, Jordan, Lebanon, Syria, and eastwards to Afghanistan, Pakistan, northern India, and northwards into Tajikistan, Uzbekistan and Turkmenistan (Winhard, 2000, van Gasse, 2013, Varshney & Smetacek, 2015, John *et al.* 2020).

## Observation

The authors conducted a four-day (20.x.2021 to 23.x.2021) opportunistic field visit at Desert National Park, Rajasthan, India. A single individual was observed perching on a wild desert plant around 5.45 P.M. (GMT+5.30) at the coordinates of 26°49' N and 70°30' E. SM photographed the butterfly using a Nikon D500 camera with Nikkor 200-500mm f/5.6 ED VR lens on 20.x.2021. SB confirmed the species as *Pontia glauconome* (Klug, 1829) using Evans (1932). The species was sighted once at the mentioned location. The authors did not observe it during subsequent field visits in the same area.

## Discussion

The location is a part of the Great Thar Desert, with an arid and subtropical climate. The area receives an annual rainfall of 100-500 mm with extreme seasonal temperature fluctuations, such as from 50° C in summer to near freezing in winter (Sharma & Mehra, 2009). *Pontia glauconome* is a desert and semi-desert species that thrives in dry and arid climatic areas (Winhard, 2000). The underside of the species is similar to *Pontia daplidice*. However, it differs in the forewing apical and marginal region, which is traversed by short white lines extending to the margin and is faintly lined with yellow. Considerably restricted green coloration of the hindwings, a dusky cell basal area with large white pyriform spots in the cell and interspace 7 are some characteristic features of *Pontia glauconome* (Bingham, 1907).

## Conclusion

The current record from the Great Thar Desert establishes the presence of this species in Rajasthan, India. The species has been recorded from Baluchistan, Karachi, Chitral and Punjab in Pakistan, so the occurrence of this species is not highly unexpected (Winhard, 2000).

### Acknowledgement

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### References

Bingham, C. T. 1907. *The Fauna of British India, including Ceylon and Burma. Butterflies* Vol. II, Taylor and Francis; Thacker, Spink, & Co, London, Calcutta and Simla, viii + 480 pp., 20 pl.

Evans, W.H. 1932. *The Identification of Indian Butterflies*. 2nd ed. Bombay Natural History Society, Bombay. x + 464 pp., 32 pl.

John, E., O. Başbay, E. Seven & N. Kaymaz. 2020. *Pontia glauconome* Klug, 1829 (Lepidoptera: Pieridae, Pierinae) in south-eastern Turkey: confirmation of breeding populations, with notes on the biology of early stages and species of the larval parasitoid *Hyposoter* Förster, 1869 (Hymenoptera:

Ichneumonidae, Campopleginae). *Entomologist's Gazette* 71: 27-44.

Sharma, K. K. & S. P. Mehra. 2009. "The Thar of Rajasthan (India): Ecology and Conservation of a Desert Ecosystem". Chapter 1 in Sivaperuman, C., H. Quaiser, Q.H. Baqri, G. Ramaswamy & M. Naseema (eds.). *Faunal ecology and conservation of the Great Indian Desert*. Springer, Berlin Heidelberg. 228 pp.

Van Gasse, P. 2013. Butterflies of India- Annotated Checklist. Available at: [https://www.ifoundbutterflies.org/images/PauIVanGasse/Butterflies\\_of%20India-Annotated\\_checklist-1.pdf](https://www.ifoundbutterflies.org/images/PauIVanGasse/Butterflies_of%20India-Annotated_checklist-1.pdf) (accessed November 28, 202)

Varshney, R.K. & P. Smetacek. 2015. *A Synoptic Catalogue of the Butterflies of India*. Butterfly Research Centre, Bhimtal and Indinov Publishing, New Delhi, ii + 261 pp. + 8 pls.

Winhard, W. 2000. *Butterflies of the world* 10. Pieridae 1 & 2. Antiquariat Geock & Evers 40 pp., 48 pl.



Fig.1: *Pontia glauconome* from Desert National Park, Rajasthan, India