

Singh, B.K. and S. Dash. Department of Zoology, Kumaun University, Nainital, India. Record of further new species of Drosophilidae from Uttarakhand region, India.

(1994)

1981; Gupta and Singh, 1979; Dwivedi and Gupta, 1979, 1980; Kumar and Gupta, 1988; Gupta and Kumar, 1986; Singh

The Drosophilid fauna of most countries are now well established in view of the great significance of Drosophilidae in genetic and evolutionary studies. The Indian subcontinent, however, still remains an exception. Although recent surveys have yielded considerable data on Indian Drosophilid species (Singh and Gupta, 1977,

and Bhatt, 1988; Singh and Negi, 1989, 1992) many parts of the Indian subcontinent still await exploration. The present paper deals with the results of surveying studies undertaken in Uttarakhand region of Uttar Pradesh, previously unexplored.

The Uttarakhand region includes Kumaun and Garhwal regions which are the hilly areas of the state of Uttar Pradesh. The Kumaun region includes three border districts, viz. Nainital, Almora and Pithoragarh, whereas the Garhwal region includes five border districts, viz. Dehra Dun, Chamoli, Tehri Garhwal, Pauri Garhwal and Uttarkashi. The Kumaun region, a wild hilly area, is located at an elevation of 6,000 ft from the sea level on the north-east periphery of the state of Uttar Pradesh. The Garhwal region is located at an elevation of 5,000 ft from the sea level and is characterized by evergreen forest. In continuation with our study of the Drosophilid fauna of these regions, further collections were made from different geographical regions which have yielded sixteen (16) new species of Drosophilidae belonging to different genera and subgenera. Table 1 shows the name of the species, genus, subgenus and collection locality which were recorded as new species during the present investigations.

Based on our present and past surveying results, it can be predicted that the Uttarakhand region is very rich in Drosophilid fauna particularly the species of the subgenus *Drosophila* of the genus *Drosophila*. It is believed that further surveying studies of this region will yield interesting results in the future.

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Table 1. Showing the name of species, genus, subgenus and collection locality.

Genus, Subgenus, species	Collection Locality
Genus- <i>Drosophila</i>	
Subgenus- <i>Sophophora</i>	
1. <i>D. neobaimaii</i> sp.n.	Bageshwar, Pithoragarh
2. <i>D. neohaoyama</i> sp. n.	Bageshwar, Pithoragarh
3. <i>D. saraswati</i> sp. n.	Bageshwar, Pithoragarh
Subgenus- <i>Drosophila</i>	
4. <i>D. bageshwarensis</i> sp. n.	Bageshwar, Pithoragarh
5. <i>D. serrata</i> sp. n.	Bageshwar, Pithoragarh
6. <i>D. paramarginata</i> sp. n.	Bageshwar, Pithoragarh
7. <i>D. hexaspina</i> sp. n.	Okhalkanda, Nainital
8. <i>D. surangensis</i> sp. n.	Surang, Nainital
9. <i>D. paharpaniensis</i> sp. n.	Paharpani, Nainital
10. <i>D. khansuensis</i> sp. n.	Khansu, Nainital
11. <i>D. elongata</i> sp. n.	Khansu, Nainital
Subgenus- <i>Scaptodrosophila</i>	
12. <i>D. hirsuata</i> sp. n.	Okhalkanda, Nainital
Genus- <i>Leucophenga</i>	
13. <i>L. angulata</i> sp. n.	Okhalkanda, Nainital
14. <i>L. okhalkandensis</i> sp. n.	Okhalkanda, Nainital
15. <i>L. clubiata</i> sp. n.	Okhalkanda, Nainital
Genus- <i>Scaptomyza</i>	
16. <i>S. quadruangulata</i> sp. n.	Okhalkanda, Nainital