

DISTRIBUTIONAL RECORDS OF STALK-EYED FLIES (DIPTERA : DIOPSIDAE)  
PRESENT IN ZOOLOGICAL SURVEY OF INDIA, CALCUTTA

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ABSTRACT

The paper deals with 8 species under 5 genera of Diopsidae present in the National Collection of the Zoological Survey of India, Calcutta, revealing new distributional records of 2 species in Burma and India, 1 species in Sri Lanka and 2 species in certain other provinces of India.

INTRODUCTION

Brunetti (1907) first listed the species of stalk-eyed flies (Diopsinae) occurring in the Oriental Region. Subsequently, a good number of specimens had been accumulated in the collection of the Zoological Survey of India. While recently studying the collection, many specimens of certain species were found unrecorded from places of collection. The purpose of this present communication is to supplement distributional records to those cited in the latest and the most comprehensive catalogues : one with the World fauna (Steyskal, 1972) and the other with the Oriental fauna (Steyskal, 1977).

*Material examined* : 1 ♂, 1 ♀ (ZSI Reg. Nos. 2381/H<sub>2</sub>, 2383/H<sub>2</sub>), INDIA : East Himalaya, Darjeeling, Peshoke, 26.v-14.vi.1916, Coll. F. H. Gravely; 1 ♀ (Head missing) (ZSI Reg. No. 2385/H<sub>2</sub>), Darjeeling, Peshoke, 11.vi.1916. Coll. L. C. Hartless; 1 (Sex ?) (Abdomen missing) (ZSI Reg. No. 3030/H<sub>1</sub>), BURMA : Tenasserim Valley, Date not cited, Coll. W. Doherty; 1 ♂, 1 ♀, 1 (Sex ?) (Abdomen missing) (ZSI Reg. No. 3029/H<sub>1</sub>), Dawna Hills, Thingannyinaung to Sukli, 23-27.xi.1911, Coll. F. H. Gravely; 1 ♀ (ZSI Reg. No. 6348/15), JAVA : Semarang, Date not cited, Coll. Jacobson.

SYSTEMATIC ACCOUNT

Subfamily DIOPSINAE

Tribe DIOPSINI

1. *Cyrtodiopsis dalmanni* (Wiedemann)

1830. *Diopsis dalmanni* Wiedemann, *Aussereurop. Zweifl. Insekt.*, 2 : 560.  
1972. *Cyrtodiopsis dalmanni* (Wiedemann) : Steyskal, *Stutt. Beitr. Naturk.*, No. 234 : 4.

*Distribution* : Borneo, Java, Malaya, Sumatra, Thailand.

*Remarks* : Wiedemann (1830) originally described this species from Java. This is recorded for the first time from Burma and India (West Bengal).

2. *Diopsis indica* Westwood

1837. *Diopsis indica* Westwood, *Trans. Linn. Soc. Lond* (Zool.), 17 : 299.  
 1972. *Diopsis indica* Westwood : Steyskal, *Stutt. Beitr. Naturk.*, No. 234 : 9.

*Material examined* : 1 ♂ (Head missing), 1 ♀, 1 (Sex ?) (Head and abdomen missing) (ZSI Reg. Nos. 3015/H<sub>1</sub>—3017/H<sub>1</sub>), INDIA : Arunachal Pradesh, Rotung, Abor Exp., 25.xii.1911, Coll. S. W. Kemp ; 3 ♀ ♀ (ZSI Reg. Nos. 3012/H<sub>1</sub>—3014/H<sub>1</sub>), Assam, Dibrugarh, 17-19.xi.1911, Coll. S. W. Kemp ; 1 ♀ (ZSI Reg. No. 3011/H<sub>1</sub>), Darrang, Assam—Bhutan Frontier, Mangaldai, 26.xii.1910, Coll. S. W. Kemp ; 2 ♀ ♀ (Head missing) (ZSI Reg. Nos. 3030/H<sub>1</sub>, 3021/H<sub>1</sub>), Uttar Pradesh, Nainital, Maldhan, 12.iv.1908, Coll. R. H. (Mus. Collr.) ; 1 ♀ (ZSI Reg. No. 3018/H<sub>1</sub>), Uttar Pradesh, Kumaon, Malwatal, 7.v.1911, Coll. S. W. Kemp ; 1 ♂ (ZSI Reg. No. 3019/H<sub>1</sub>), Uttar Pradesh, Kumaon, Bhimtal, 2-10.v.1911, Coll. S. W. Kemp ; 3 ♂ ♂, 3 ♀ ♀ (ZSI Reg. Nos. not cited), Uttar Pradesh, Kumaon Hills, Bhimtal, grassy part of the dry bed of the lake, 17.v.1930, Coll. H. S. Pruthi ; 1 ♂ (ZSI Reg. No. 5151/H<sub>6</sub>), Gujarat, Ahwa, Bhwantha Godhnalla, 7.ii.1975, Coll. T. G. Vazirani ; 1 ♀, 1 ♂ (ZSI Reg. Nos. 2380/H<sub>2</sub>, 2381/H<sub>2</sub>), BURMA : Yawnghwe State, S. Shan States, top of gorge of Heho river, 7.iii.1917, Coll. F. H. Gravely.

*Distribution* : Bangladesh to Southern China, South to Java.

*Remarks* : The species was originally described from Bengal (= East Pakistan *sensu* Steyskal, 1972, now Bangladesh). The species has been recorded from Burma and India (Arunachal Pradesh, Assam, Gujarat, Uttar Pradesh and West Bengal (Vazirani and Rathore, 1976).

3. *Diopsis nr indica* Westwood

*Material examined* : 1 ♀ (ZSI Reg. No. 3024/H<sub>1</sub>), INDIA : Kerala, Nilgiri Hills, ?ix.1910, Coll. H. I. Andrews ; 1 ♂, 1 ♀, (ZSI Reg. Nos. not cited), Kerala, Cochin, Parambikulam, 16-24.ix.1914, Coll. F. H. Gravely ; 1 (Sex ?) (Abdomen missing) (ZSI Reg. No. not cited), Assam—Bhutan Frontier, Mangaldai, 26.xii.1910, Coll. S. W. Kemp ; 1 ♀ (Head missing) (ZSI Reg. No. not cited). Meghalaya, Tura, Garo Hills, 15.vi-15.vii.1917, Coll. S. W. Kemp ; 1 ♂ (ZSI Reg. No. 3028/H<sub>1</sub>), BURMA : Rangoon, 25.ii.1908, Coll. N. Annandale.

*Remarks* : This species appears to be allied to *Diopsis indica* Westwood, but it is not possible now to determine the specific identity on the basis of old damaged specimens. The authors will, therefore, endeavour to obtain further fresh material for confirmation.

4. *Eurydiopsis subnotata* (Westwood)

1848. *Diopsis subnotata* Westwood, *Cab. orient. Ent.*, : 37.  
 1972. *Eurydiopsis subnotata* (Westwood) : Steyskal, *Stutt. Beitr. Naturk.*, No. 234 : 11.

*Material examined* : 1 ♂ (Head missing), 1 (Sex ?) (Abdomen missing) (ZSI Reg. Nos. 414/9, 422/9), INDIA : Assam, Margherita, date not cited, Coll. Anonymous ; 1 (Sex ?) (Abdomen missing) (ZSI Reg. No. 5121/8, Assam, Sadiya, date not cited, Coll. M. Bigot ; 1 ♂ (ZSI Reg. No. 2179/H<sub>2</sub>), Meghalaya, Garo Hills, Tura, x.1917, Coll. S. W. Kemp ; 1 ♀ (ZSI Reg. No. 3022/H<sub>1</sub>), BURMA : Rangoon, 25.ii.1908, Coll. N. Annandale ; 1 ♀ (ZSI Reg. No. 2377/H<sub>2</sub>), Taung-gua Valley, Yawnghwe State, S. Shan States, 2.iii.1917,

Coll. F. H. Gravely ; 1(Sex ?) (Head and abdomen missing) (ZSI Reg. No. 3009/H<sub>1</sub>), Tenasserim Valley, date not cited, coll. W. Doherty.

*Distribution* : Burma, India (Assam), Indonesia (Sumatra, Celebes), Philippines, New Guinea.

*Remarks* : The species was originally described from the Philippines. This is now recorded for the first time from Meghalaya in India.

### 5. *Teleopsis motatrix* Osten Sacken

1882. *Teleopsis motatrix* Osten Sacken *Berl. ent. Z.* 26 : 236.

1972. *Teleopsis motatrix* Osten Sacken : Steyskal, *Stutt. Beitr. Naturk.*, No. 234 : 11.

*Material Examined* : 1 ♀ (ZSI Reg. No. 3031/H<sub>1</sub>), SRI LANKA : Kandy, date not cited, Coll. Anonymous.

*Distribution* : Philippines.

*Remarks* : The species was originally described from the Philippines. The species is recorded for the first time from Sri Lanka.

### 6. *Teleopsis quadriguttata* (Walker)

1856. *Diopsis quadriguttata* Walker, *J. Proc. Linn. Soc. Lond.*, Zool., 1 : 37.

1972. *Teleopsis quadriguttata* (Walker) : Steyskal, *Stutt. Beitr. Naturk.*, No. 234 : 12.

*Material examined* : 1 ♀ (ZSI Reg. No. 2389/H<sub>2</sub>), INDIA : West Bengal, Sukna, 1.vii.1908, Coll. N. Annandale ; 1 ♂ (ZSI Reg. No. 2396/H<sub>2</sub>), West Bengal, Darjeeling, Mongpu, Sureil, iv-v.1917, Coll. S. W. Kemp ; 1(Sex ?) (Abdomen missing) (ZSI Reg. No. 2398/H<sub>2</sub>), West Bengal, E. Himalaya, Darjeeling, Peshoke, 26.v-14.vi.1916, Coll.

F. H. Gravely ; 1 ♂, 1 ♀ (ZSI Reg. Nos. 2392/H<sub>2</sub>, not cited), Meghalaya, Cherrapunji, 2-8.x.1914, Coll. S. W. Kemp ; 1(Sex ?) (Abdomen missing) (ZSI Reg. No. 5491/8), Assam, Margherita, Date not cited, Coll. Anonymous, 2 ♂ ♂ (ZSI Reg. Nos. not cited), Uttar Pradesh, Ranikhet, Reserve forest opposite Upat (bushes and trees on the sides of the streamlet) 26.v.1930, Coll. H. S. Pruthi ; 1 ♂ (Head missing) (ZSI Reg. No. 3075/H<sub>1</sub>), BURMA : Moulmein, 17.xi-4.xii.-1911, Coll. F. H. Gravely ; 1 ♀ (ZSI Reg. No. 3078/H<sub>1</sub>), Dawna Hills, 2-3.iii.1908, Coll. N. Annandale ; 1 ♀ (ZSI Reg. No. 2390/H<sub>2</sub>), Khayon nr. Moulmein, 7.iii.1908, Coll. N. Annandale ; 2 ♀ ♀ (ZSI Reg. Nos. 2394/H<sub>2</sub>, 2395/H<sub>2</sub>), Yawnghwe State, S. Shan States, top of gorge of Heho river, 7.iii.1917, Coll. F. H. Gravely.

*Distribution* : China, Indonesia (Borneo), Malaysia, Tiwan.

*Remarks* : The species was originally described from Malacca (Malaysia). These are the first records for the species from Burma and India (Assam, Meghalaya, Uttar Pradesh and West Bengal).

### 7. *Teleopsis sykesii* (Westwood)

1837. *Diopsis sykesii* Westwood, *Trans. Linn. Soc. Lond. (Zool)*, 17 : 310.

1972. *Teleopsis sykesii* (Westwood) : Steyskal, *Stutt. Beitr. Naturk.*, No. 234 : 12.

*Material examined* : 1 ♀, 1(Sex ?) (ZSI Reg. No. 2388/H<sub>2</sub>), INDIA : Karnataka, North Kanara, Talewadi nr. Castle Rock, 3-16.x.1916, Coll. S. W. Kemp ; 1(Sex ?) (Abdomen missing), 1 ♂ (ZSI Reg. No. not cited, 3034/H<sub>1</sub>), Kerala, Cochin, Parambikulam, 16-24.iv.1914, Coll. F. H. Gravely ;

1(Sex ?) (Head, Abdomen missing) (ZSI Reg. No. 3035/H<sub>1</sub>), Kerala, Cochin, Forest Transway (mile 10-14), 28-29.ix.1914, Coll. F. H. Gravely ; 1(Sex ?) (Abdomen missing) (ZSI Reg. No. 3032/H<sub>1</sub>), Coorg, 1913, Coll. Honnyngton ; 2 ♂♂, 1 ♀ (ZSI Reg. Nos. 3033/H<sub>1</sub>, 3036/H<sub>1</sub>, 3038/H<sub>1</sub>), Maharashtra, Satara, Western Ghats, Nechal, 30.iv.1912, Coll. F. H. Gravely.

*Distribution* : India (Maharashtra), Indonesia (Java, Sumatra), Philippines.

*Remarks* : The species was originally described from Maharashtra in India. It is here recorded for the first time from Karnataka and Kerala.

### 8. *Sphyracephala hearseiana* (Westwood)

1845. *Diopsis hearseiana* Westwood, *J. Proc. ent. Soc. Lond.* For Jan. 1, 1844 : 99.

1972. *Sphyracephala hearseiana* (Westwood) : Steyskal, *Stutt. Beitr. Naturk.*, No. 234 : 13.

*Material examined* : 1 ♂ (ZSI Reg. No. 3043/H<sub>1</sub>), BANGLADESH : Khushtia, 7.x.1909, Coll. Jenkins ; 3 ♂♂, 6 ♀♀ (ZSI Reg. Nos. 3040/H<sub>1</sub>, 3050/H<sub>1</sub>, 3051/H<sub>1</sub> Reg. No. not cited, 2580/H<sub>6</sub>, 2592/H<sub>6</sub>—2595/H<sub>6</sub>), INDIA : West Bengal, Asansol, 13-14.ii.1910, Coll. Paiva and Counter ; 1 ♂ (Head missing) (ZSI Reg. No. 3071/H<sub>1</sub>), West Bengal, Calcutta, Tollygunge, 18.viii.1908, Coll. N. Annandale ; 1 ♂ (ZSI Reg. No. 4051/15), Orissa, Chilka, Gopkuda Island, 7-15.viii.1907, Coll. (Mus. Collr.) ; 1 ♂, 1 ♀, (Head missing) (ZSI Reg. Nos. 3050/H<sub>1</sub>, 3051/H<sub>1</sub>), Uttar Pradesh, Allahabad, 13.viii.-14.viii.1908, Coll. B. Lord ; 1 ♂, 1 ♀, 2 (Sex ?) (Abdomen missing) (ZSI Reg. No. 3060/H<sub>1</sub>, 3062/H<sub>1</sub>, 2607/H<sub>6</sub>, 2608/H<sub>6</sub>), Uttar Pradesh, Between Amausi and Harauni nr. Lucknow, 25-26.x.1911,

Coll. J. W. C. ; 1 ♀ (Head missing) (ZSI Reg. No. 3059/H<sub>1</sub>), Uttar Pradesh, Kanpur, Collectorguni, 14-15.x.1911, Coll. J. W. C. ; 2 ♀♀ (ZSI Reg. Nos. 2610/H<sub>6</sub>, 3069/H<sub>1</sub>), Uttar Pradesh, Lucknow, 10.ii.1908, Coll. R. H., 1 ♂, 3 ♀♀, 1 (Sex?) (Abdomen missing) (ZSI Reg. Nos. 3072/15, 3075/15, 3076/15, 3078/15, 3079/15), Uttar Pradesh, Lucknow, 21.iv.1907 Coll. N. Annandale ; 1 ♀ (ZSI Reg. No. 3070/H<sub>1</sub>), Uttar Pradesh, Kumaon, Bhimtal, 22-27.ix.1906, Coll. N. Annandale ; 1 ♂, 2 ♀♀ (ZSI Reg. Nos. 3277/H<sub>6</sub>, 3278/H<sub>6</sub>), Reg. No. not cited), Uttar Pradesh, Agra, Botanical Garden, 5.xi.1960, Coll. J. L. Nayer ; 2 ♂♂, 1 ♀ (ZSI Reg. Nos. 2600/H<sub>6</sub>—2602/H<sub>6</sub>), Uttar Pradesh, Kanpur, ?ii.1904, Coll. Anonymous ; 1 ♀, 1 (Sex ?) (Abdomen missing) (ZSI Reg. Nos. 2603/H<sub>6</sub>, 2605/H<sub>6</sub>), Uttar Pradesh, Kanpur, date not cited, Coll. Brunetti, 6 ♂♂, 3 ♀♀, 4 (Sex ?) (Abdomen missing) (ZSI Reg. Nos. 2614/H<sub>6</sub>—2620/H<sub>6</sub>, 2622/H<sub>6</sub>—2625/H<sub>6</sub>, 2627/H<sub>6</sub>, 2628/H<sub>6</sub>, 2619/H<sub>7</sub>), Uttar Pradesh, Nainital, Bindukhera, 3.iv.1910, Coll. (Mus. Collr.) ; 2 ♂♂ (ZSI Reg. Nos. not cited), Madhya Pradesh, Burhanpur, Centr. Prov., 4-6.iii.1919, Coll. F. H. Gravely ; 4 ♂♂, 1 ♀ (ZSI Reg. Nos. 3554/H<sub>6</sub>—3558/H<sub>6</sub>), Madhya Pradesh, Jagdalpur, 17.i.1963, Coll. K. K. Verma ; 1 ♂, 4 ♀♀ (ZSI Reg. No. not cited), Madhya Pradesh, Rewa, Below Kapil Dhara fall, 19.xi.1927, Coll. S. L. Hora ; 1 ♂ (ZSI Reg. No. 5250/15, 5252/15), Maharashtra, Bombay, 23-24.xi.1907, Coll. N. Annandale ; 3 ♂♂, 1 ♀ (ZSI Reg. Nos. 3072/H<sub>1</sub>), Maharashtra, Satara, Nechal, Western Ghats, 30.iv. 1912, Coll. F. H. Gravely ; 2 ♂♂, 3 ♀♀ (ZSI Reg. Nos. not cited), Maharashtra, Buldana, Berar, 2.1923, Coll. S. V. Rao ; 2 ♀♀ (ZSI Reg. Nos. 3694/H<sub>6</sub>, 3695/H<sub>6</sub>), Maharashtra,

Manjuri shed farm, 26.iv.1961, Coll. S. M. Katkar ; 8 ♂ ♂, 13 ♀ ♀, 3 (Sex ?) (Abdomen missing) (ZSI Reg. Nos. 2629/H<sub>8</sub>—2633/H<sub>8</sub>, 2635/H<sub>8</sub>, 2637/H<sub>8</sub>—2642/H<sub>8</sub>, 3030/H<sub>8</sub>, 3052/H<sub>1</sub>—3054/H<sub>1</sub>), Gujarat, Dharampur, 11.iv.1913, Coll. Phaku Ram ; 2 ♀ ♀ (ZSI Reg. Nos. 3055/H<sub>1</sub>, 3056/H<sub>1</sub>), Himachal Pradesh, Kalka, Base of Simla Hills, 19.viii.1911, Coll. (Mus. Collr.) ; 2 ♂ ♂, 2 ♀ ♀, 1 (Sex ?) (Abdomen missing) (ZSI Reg. Nos. 3634/16—3637/16), In a gorge, Chanseli, Akrari Plateaux, W. Khandesh, x.1909, Coll. I. H. Burkill.

*Distribution* : Bangladesh, India.

*Remarks* : The species was originally described from India (most probably from Uttar Pradesh and adjoining areas).

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