Mather, W.B. and A.K. Pope. University of Queensland, St. Lucia, Australia. Inversions from Chiang Mai, Thailand. 5th Report.

In July 1984 thirty-eight isolines of **D.s.albostrigata** and seven isolines of **D.albomicans** were established from Chiang Mai, Thailand. Inversions in these species were last reported on from Chiang Mai in November 1983 (Mather & Tam, DIS 61: this issue).

(a) **D.s.albostrigata.** Six simple and two complex inversion were detected. All inversions had previously been detected in Southeast Asia, but F_3 was new to Chiang Mai. A photograph of the new inversion C_7 is presented and breakpoints assigned in relation to the standard photographic map (Thongmeearkom 1977, DIS 52:154). The heterozygosity frequency of all inversions is given in Table 1.

(b). **D.albomicans.** Five simple and one complex inversions were detected (Table 2). All had previously been detected in Southeast Asia but L_3 was new to Chiang Mai.

The material was collected and the isolines established by W.B.M. The laboratory work was carried out by A.K.P.

Table 1.

Inversion	Chromosome	Simple	Complex	Het. Freq.%	Breakpoints
A_5	II L	X		44.7	
D_5	II L		X	2.6	
E	II L	X		13.2	
C_7	II L		X	2.6	3.2-21.2
C_5	II R	X		10.5	
Y_6	III	X		2.6	
B_5	III	X		13.2	
F_3	III	X		2.6	

Table 2.

Inversion	Chromosome	Simple	Complex
R_5	I	X	
E^1	II L	X	
A_7	II L	X	
C_1	III	X	
E_6	III		X
L_3	III	X	

Figure 1. The free end of the chromosome is in the centre of the photograph.

Mather, W.B. and A.K. Pope. University of Queensland, St. Lucia, Australia. Inversions from Phuket, Thailand. 6th Report.

In January 1984 thirty isolines of **D.s.albostrigata,** twelve isolines of **D.albomicans** and two isolines of **D.kohkoa** were established from Phuket, Thailand. Inversions in **nasuta** group species were last reported on from Phuket in July 1983 (Mather & Casu, DIS 61: this issue).

(a) **D.s.albostrigata.** Eight simple and one complex inversion were detected (Table1). All inversions had previously been detected from Phuket. The heterozygosity frequency of all inversions detected is given in the Table.

Table 1.

Inversion	Chromosome	Simple	Complex	Het.Freq.%
A_5	II L	X		16.7
D_5	II L		X	46.7
I_2	II L	X		3.3
E	II L	X		33.3
C_5	II R	X		73.3
C_1	III	X		46.7
W_2	III	X		13.3
F_3	III	X		13.3
P_5	III	X		6.7

Table 2.

Inversion	Chromosome	Simple	Complex	Het.Freq.%
R_5	I	X		25.0
E^1	II L	X		66.7
C_1	III	X		58.3
L_3	III	X		16.7
E_6	III		X	66.7
B_6	III	X		33.3
Z_6	III	X		16.7
B^1	III	X		8.3

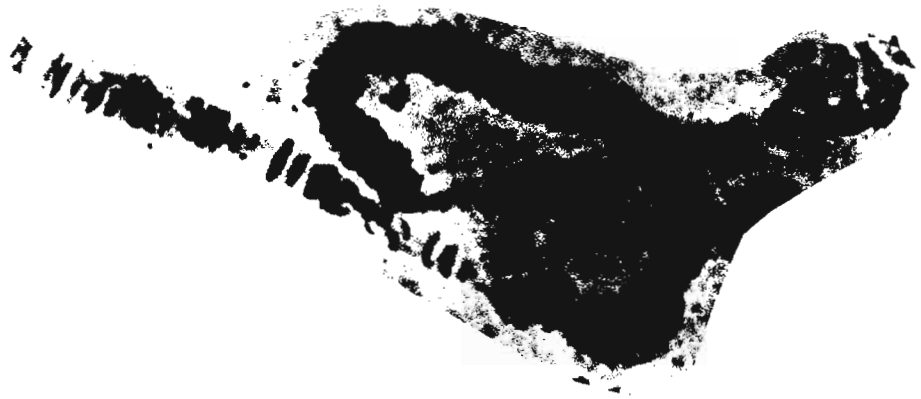

Table 3.

Inversion	Chromosome	Breakpoints
E^1	II L	
Y	III	
K_6	III	
L	III	
B_7	III	13.2-19.3

Figure 1. The free end of the chromosome is to the right.

(b) **D.albomicans.** Seven simple and one complex inversion were detected (Table 2). All inversions had previously been detected from Southeast Asia, but R_5 and Z_6 were new to Phuket.

(c) **D.kohkoa.** Five simple inversions were detected (Table 3). Four of the five inversions had previously been detected in Southeast Asia, but of these E^1, K_6, and L are new to Phuket. A photograph of the new inversion B_7 is presented and breakpoints assigned in relation to the standard photographic map (Mather, W.B. & P. Thongmeearkom 1978, DIS 53:150).

The material was collected and the isolines established by W.B.M. The laboratory work was carried out by A.K.P.

Mather, W.B. and A.K. Pope. University of Queensland, St. Lucia, Australia. Inversions from Phuket, Thailand. 7th Report.

In July 1984 twenty-eight isolines of **D.s.albostrigata** and ten isolines of **D.albomicans** were established from Phuket, Thailand. Inversions in these species were last reported on from Phuket in January 1984 (Mather & Pope, DIS 61: this issue).

(a) **D.s.albostrigata.** Seven simple and one complex inversion were detected (Table 1). All inversions had previously been detected from Phuket. The heterozygosity frequency of all inversions detected is given in Table 1.

(b) **D.albomicans.** Five simple and one complex inversions were detected (Table 2). All inversions had previously been detected from Phuket. The heterozygosity frequency of all inversions detected is given in Table 2.

The material was collected and the isoline established by W.B.M. The laboratory work was carried out by A.K.P.

Table 1.

Inversion	Chromosome	Simple	Complex	Het.Freq.%
A_5	II L	X		7.1
E	II L	X		14.2
D_5	II L		X	67.8
C_5	II R	X		64.2
C_1	III	X		42.8
P_5	III	X		3.5
W_2	III	X		28.5
F_3	III	X		10.7

Table 2.

Inversion	Chromosome	Simple	Complex	Het.Freq.%
R_5	I	X		10
E^1	II L	X		50
C_1	III	X		90
E_6	III		X	50
L_3	III	X		50
B_6	IIi	X		20