Mather, W.B., W.R. Knibb and G. Balwin. University of Queensland, Brisbane, Australia. Inversions in D. sulfurigaster albostrigata from the River Kwai, Thailand.

From a collection of Drosophila from the River Kwai region of Thailand (November 1977) 35 isolines of D. sulfurigaster albostrigata were established.

Sixteen simple and four complex inversions were detected. Three of the simple and one of the complex inversions have previously been detected in South East Asian populations (Mather and Thongmeearkom 1972, DIS 48:40; Mather and Thongmeearkom 1973, DIS 50:60; Mather, Thongmeearkom, Clyde and Lambert 1974, DIS 51:86). The remaining inversions are new and photographs are here presented.

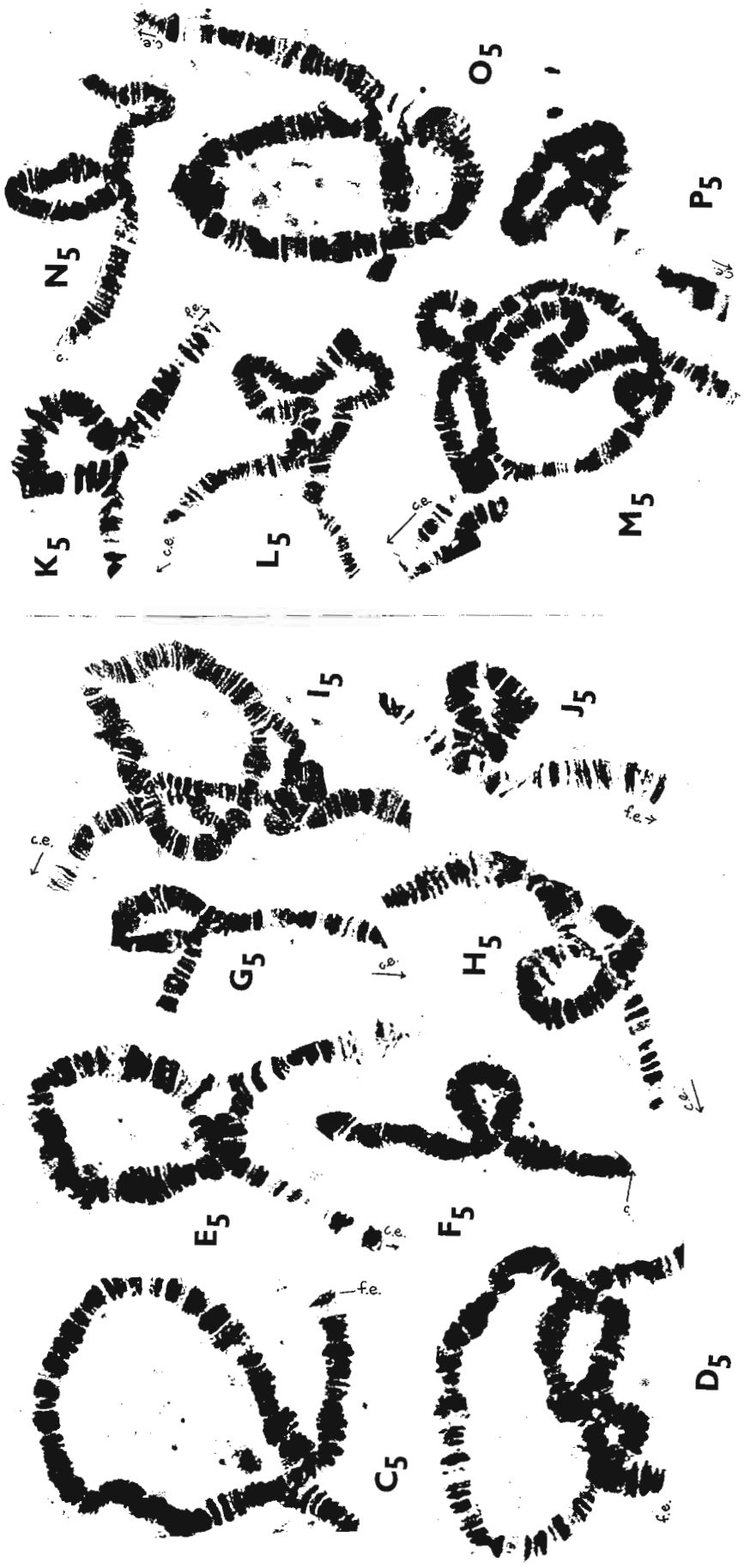
Breakpoints of these inversions (in relation to the standard photographic map - Thongmeearkom 1977, DIS 52:154) are given in the table. Breakpoints of inversions C, E and Y_2 are given in Thongmeearkom 1977, DIS 52:154. Breakpoints of inversion J_2 have not been previously determined and are here presented. The heterozygosity frequency of all inversions detected are given.

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

Inversion	Type	Chromosome	Breakpoints	Het.Freq.
C	Sim.	III	-	2.8
E	Sim.	II L	-	28.6
J_2	Com.	II L	6.6 - 21.2	11.4
Y_2	Sim.	II L	-	11.4
A_5	Sim.	II L	3.2 - 17.2	31.4
B_5	Sim.	III	26.4 - 35.4	2.8
C_5	Sim.	II R	4.9 - 20.9	25.7
D_5	Com.	II L	3.2 - 21.2	5.7
E_5	Sim.	I	10.5 - 19.3	2.8
F_5	Sim.	III	38.1 - 41.4	2.8
G_5	Sim.	III	31.3 - 35.2	2.8
H_5	Sim.	III	36.5 - 40.9	2.8
I_5	Com.	III	16.8 - 35.6	2.8
J_5	Sim.	III	16.1 - 18.2	2.8
K_5	Sim.	III	31.3 - 35.8	2.8
L_5	Sim.	III	21.0 - 33.2	2.8
M_5	Com.	III	18.2 - 35.4	8.6
N_5	Sim.	III	35.6 - 41.0	2.8
O_5	Sim.	III	23.9 - 34.6	2.8
P_5	Sim.	III	35.3 - 40.5	2.8

Note: Sim. = simple, Com. = complex

Photographic note: c = centromere, c.e. = centromere end, f.e. = free end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