

ACKNOWLEDGEMENTS

I would like to express my deepest gratitude to my thesis advisor, Associate Professor Dr. Jariya Chanpaisaeng and to the committee members, Associate Professor Dr. Gregory W. Courtney, Department of Entomology, Iowa State University and Dr. Chaweewan Hutacharern, Head of Forest and Plant Conservation Research Office, The Royal Forestry Department for their valuable advice, guidance, suggestion and encouragement throughout my study. I also express my appreciation to Associate Professor Dr. Boongee Vajarasathira, representative of the Graduate School for her valuable suggestion and comment.

My heartfelt thanks goes to The Royal Golden Jubilee Ph. D Program of The Thailand Research Fund for financial support during my study. Also thanks to The National Research Council of Thailand, Department of National Park, Wildlife and Plant Conservation, and Khao Yai National Park for granting permission to collect.

I would like to especially thank Professor Dr. Peter H. Adler, Department of Entomology, Clemson University for his valuable assistance, advice, suggestion, information on staining polytene chromosomes techniques. Also, my sincere gratitude goes to Professor Dr. Hiroyuki Takaoka, Department of Infectious Disease Control, Oita Medical University and Associate Professor Dr. Chaliow Kuvangkadilok, Department of Biology, Mahidol University for assistance with identifications and discussions about the Simuliidae of Thailand and Southeast Asia.

I extend my deepest thanks goes to Mr. Robert Cunningham for his valuable assistance, comment, guidance on data analysis and to Mr. Wattana Sakchuwong, The Royal Forestry Department.

My gratitude goes to Assistant Professor Pongchate Pichitkul, Department of Aquaculture, Kasetsart University for his kindly and some necessary instruments. I would also like to thank Associate Professor Dr. Somsak Apisitwanich, Department of Genetics, Kasetsart University for his kindly and some chemicals for my research

and to Associate professor Dr. Samrit Sing-asa, Department of Veterinary Pathology, Chulalongkorn University for his valuable information on slide mounting techniques

My gratitude forever goes to Professor Dr. John C. Morse, Department of Entomology, Clemson University and his wife, Susan for hospitality during my visit at Clemson University.

Thanks to Miss Korrakot Damrak for assistance, suggestion and friendship as well as Mr. Joel F. Gibson who helped me during my visit at Iowa State University. I would like to thank Miss Sanae Jitklang and Miss Ubon Thangkawanit, Department of Biology, Mahidol University for helping with the identification and larval taxonomy. Also, my gratitude to teachers, staffs, and graduate students of Department of Entomology, Kasetsart University for their help and encouragement. Many are not mentioned herein, but I thank them all.

Lastly, I would like to thank my parents and all members in my family for their support and a great encouragement throughout my study.

Jumnongjit Phasuk

May 2005