

VI. ACKNOWLEDGEMENTS

I would like to express my deepest gratitude to my supervisor Prof. Takehisa Oikawa for making this research so stimulating and enjoyable, and especially for his patient guidance with understanding and encouragement. I am very much indebted to Prof. Ho-Joon Lee, Kon-Kuk University, for his valuable comments on the thesis. This study could not have been performed without cooperative work with Associate Prof. Shigeru Mariko, who has given me insightful suggestions during the course of the study. I wish to express my sincere gratitude to Prof. Ichiroku Hayashi and Prof. Hujio Kimura for making comments on this research.

I am also grateful to the staff, particularly Prof. Ikeda, Dr Miyazaki, and Dr. Niimura, of the Terrestrial Environment Research Center of the University of Tsukuba for supplying construction space for the chambers and meteorological data. I thank Prof. T. Horie, Prof. I-Seong Sim, Prof. Izumi Washitani, Dr. H. Nakakawa, Dr. K. Kobayashi, and Dr. M. Okada for technical suggestions and comments in construction of the chambers. I also wish to express my thanks to Mr. Tetsuyuki Usami, Mrs. Tomoko Yokoyama, Mr. Gil-Jae Lee, Dr. Won-Sik Kim, Dr. Shengong Li, Dr. Sachiko Araki, Dr. Zun Nishihiro, Dr. Chizuru Matumura, Dr. Makito Mori, Atsushi Higuchi, Dr. Yong-Moon Jeon and Dr. Hiroyuki Muraoka for discussing problems related to interpreting the experimental results. I also thank Mr. Takashi Ueda, and especially Mr. Ho-Gune Im for assistance from construction and maintenance of the chambers to the plant growth experiment. I appreciate Prof. RSJ Weisburd, Dr. Amanda Stansell, Dr. Jeong-Heon Ahn, Mr.

Ho-Gune Im, and Dr. In-Book Lee for revision and helpful comments on the manuscript.

Finally, I owe gratitude to my father and mother, brothers, lovely wife and Suhyun. They have economically and spiritually supported me throughout this long process. I wish to acknowledge my seniors and friends, particularly Sea-Beom Lee and Jong-Hwan Ann, for their continued encouragement.