ACKNOWLEDGEMENTS

This study would not have been possible without the support and contribution of many organizations, professionals and friends in Nepal and in Wildlife Institute of India (WII), India. It has been an incredible experience and a great privilege meeting and working with so many interesting, kind and experienced individuals. I would like to take an opportunity to thank all the institutions and individuals for their direct and indirect help in my study.

I acknowledge my greatest appreciation to my supervisors Dr. V. B. Mathur, Professor and Dean, Faculty of Wildlife Sciences, WII and Dr. S. P. Goyal, Professor, for their constant encouragement and guidance. Dr. V. B. Mathur accepted me as a student, advised, supported, patiently read, and enthusiastically cheered throughout the study. Dr. S. P. Goyal provided me excellent and concise advice, and timely and quality critiques at all stages of my research.

I would like to express my sincere gratitude to Mr. P. R. Sinha, Director of WII for granting the permission to conduct my Ph. D. research at WII. I am thankful to Dr. K. Sankar for facilitating the completion of formalities for Ph. D registration and submission. I am grateful to Prof. V. C. Soni for helping me in completing all the formalities at the Saurashtra University.

I am grateful to the University Grant Commission, Nepal for providing partial fellowship, WII for providing fellowship for the year 2007 under UNESCO-IUCN Enhancing Our Heritage Project, WWF Nepal for support to micro-histological work and WWF International for providing me small research grant under the Tiger and other Asian Big Cats Program. Dr. Bivash Pandav (then Program Leader, Tiger and other Asian Big Cats), WII deserve special thanks for his support, suggestions and companionship even in the thick jungle. I wish to thank Mr. Dinesh Kafle, Department of Survey, Government of Nepal, Mr. Sujindra Shrestha, Soyam Megasoft, Kathmandu and Dr. Juerg Lichtenegger, ESA/ESRIN for their help and contribution in acquiring satellite images. I am grateful to Dr. Grzegorz Mikusinski, Associate Professor, Department of Ecology, the Swedish University of Agricultural Sciences (SLU) for his support to my travel, stay and work at SLU as part of this research. At SLU, interaction with Prof. Henrik Andrean, Drs. Lars Edenius, Petter Kjellander, Jens Persson, Guillaume Chapron, Gustaf Samelius and Matt Low was very fruitful to enrich my knowledge on large carnivores and data analysis techniques and I heartily acknowledge all of them.
I wish to thank Mr. Shyam Bajimaya, former Director General and his colleagues in the Department of National Parks and Wildlife Conservation (DNPWC), for support, encouragement and permission to conduct this research in the Chitwan National Park (CNP). Particularly, I would like to thank Mr. Shiva Raj Bhatta, Mr. Bed Kumar Dhakal and Mr. Buddhi Sagar Paudel for their administrative support and encouragement. Mr. Jhamak Karki (Ph. D. candidate at WII), Under Secretary, DNPWC deserves special thanks for his support, sharing his knowledge and good companionship in field as well as in WII.

I acknowledge the support of Mr. Gopal P. Upadhaya (then Chief Warden), Mr. Kamal J. Kunwar (then acting Chief Warden), Mr. Megh B. Pande (then Chief Warden) and Dr. Narendra M. B. Shrestha, Chief Warden and other staff of CNP. I am especially thankful to Assistant Conservation Officers Mr. Ana Nath Baral, Mr. Karun Pandit, Mr. Ganesh Panta, Mr. Jagan N. Singh, Mr. Lal B. yadav, Mr. Lal B. Bhandary, Mr. Ashok Bhandary, Mr. Laxman Paudel and Budhi Pathak, and Rangers Mr. Sujan Maharjan, Mr. Rupak Maharjan and Mr. Shant Magar for their help, support to coordinate my fieldwork and providing field assistants. I would like to acknowledge Dr. Kamal P. Gaire, Senior veterinary officer, CNP for sharing his knowledge on leopard mortality.

I express my sincere thanks to National Trust for Nature Conservation (NTNC), Nepal. Particularly, I am grateful to Mr. Ganga J. Thapa, Chief Executive Officer for his support and Dr. Shant R. Jnawali, Director, Terai Program for his constant encouragement and support. I am thankful to the professionals of WWF Nepal, especially Dr. Rinjan Shrestha, Mr. Kanchan Thapa (now Ph. D. candidate at Virginia Tech), Mr. Gokarna Jung Thapa, Mr. Kamal Thapa, Mr. Pradip Khanal and Ms Sabita Malla for their help and encouragement at various stages of my research.

I acknowledge the facilitation and help of Mr. Ram C. Nepal, Mr. Kirti N. Poudel and Mr. Naresh Subedi, Project Coordinators; Mr. Ram K. Aryal (Administrative officer) and Mr. Babu Ram Lamichhane (Conservation officer) NTNC’s Biodiversity Conservation Center (BCC) at Sauraha for providing me accommodation, technicians, logistics and good company.

I would like to thank Mr. Bishnu Lama, Harka M. Lama, Man B. Lama, Kapil Pokharel, Nandu R. Acharya, Tirth Lama from BCC and Laxaman Ray, Gambar S. Gurung and Ram C. Raila and other field staff from CNP for their assistance in field work. The CNP field staff, game scouts and elephant crews, and BCC field technicians and elephant crews who really helped, shared their experience and
encouraged me during field work, and they all are great source of field knowledge, I acknowledge all of them.

I sincerely acknowledge the DNPWC/Gov Nepal, WWF Nepal and NTNC, Nepal for providing opportunity to participate tiger monitoring program 2008/09 and 2010 and permitting me to use leopard photographic data in my thesis.

I am sincerely grateful to Mr. Qamar Qureshi, Professor, WII, who helped me in many ways to analyze ecological and spatial data. I wish to express my sincere gratitude to Drs. G. S. Rawat, P. K. Mathur, Y. V. Jhala and K. Ramesh, Faculty members at WII for their constant support, suggestions and encouragement for quality research. I thank Dr. S. A. Hussain for allotting accommodation in WII hostels. At GIS Unit, I am thankful to Mr. Rajesh Thapa, Dr. Panna Lal and Dr. Manoj Agarwal for the facilities they provided and for their help in spatial data analysis. I am thankful to library staff of WII for facilities they provided. I am thankful to Mr. Rajiv Thapa, Jyoti Nautiyal, Kehar Singh and Virendra Sharma for their help in thesis organization and production. Interactions with WII researchers; Dr. Devendra Chauhan, Devendra Thakur, T. Ramesh, Bed Prakash Ole and Randeep Singh were fruitful and helped me to complete thesis. I thank Mr. Birendra Kandel (Diploma trainee at WII), Assistant Conservation officer, Sagarmatha National Park, Nepal and Mr. Ashis Bista (M. Sc. Student at WII) for their good wishes and companionship at WII.

I am grateful to the Tribhuvan University for granting me study leave. I sincerely thank Prof. T. K. Shrestha, Prof. V. K. Thapa and Prof. A. S. Tamrakar, former Heads of Department and Prof. R. Gupta, HoD, Central Department of Zoology for their encouragement, support and administrative help for granting and extending my leave. I wish to acknowledge Mr. Taran B. Karki (former Vice Chancellor, Purbanchal University, Nepal) for his encouragement. I am thankful to my colleagues Dr. Nanda B. Singh, Mr. P. B. Budha, Dr. Tika Aryal and Mr. U. Mandal at Tribhuvan University for their support and encouragement.

At this moment, I would like to remember to my late parents who raised me in an environment in which I was free to pursue my dream. I thank my brothers and sister in laws for their constant support and encouragement. Finally, I would like to thank my wife Indira and kids Riwaj and Reeti for their patience, love and good wishes that always kept me focused in my study.

Tej Bahadur Thapa