IMPACTS OF LAND USE CHANGE ON CARBON SEQUESTRATION OF **RUBBER PLANTATIONS IN THE NABANHE NATIONAL NATURE RESERVE IN XISHUANGBANNA, PEOPLE'S REPUBLIC OF CHAINA**

CLAUDIA AMELIA HUBER

MASTER OF SCIENCE IN SUSTAINABLE AGRICULTURE AND INTEGRATED WATERSHED MANAGEMENT

THE GRADUATE SCHOOL CHIANG MAI UNIVERSITY

FEBRUARY 2013

IMPACTS OF LAND USE CHANGE ON CARBON SEQUESTRATION OF RUBBER PLANTATIONS IN THE NABANHE NATIONAL NATURE RESERVE IN XISHUANGBANNA, PEOPLE'S REPUBLIC OF CHAINA

CLAUDIA AMELIA HUBER

A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE IN SUSTAINABLE AGRICULTURE AND INTEGRATED WATERSHED MANAGEMENT

THE GRADUATE SCHOOL CHIANG MAI UNIVERSITY FEBRUARY 2013

IMPACTS OF LAND USE CHANGE ON CARBON SEQUESTRATION OF RUBBER PLANTATIONS IN THE NABANHE NATIONAL NATURE RESERVE IN XISHUANGBANNA, PEOPLE'S REPUBLIC OF CHINA

CLAUDIA AMELIA HUBER

THIS THESIS HAS BEEN APRROVED TO BE A PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE IN SUSTAINABLE AGRICULTURE AND INTEGRATED WATERSHED MANAGEMENT

EXAMINING COMMITTEE

Dr.Sergey Blagodatskiy

C MEMBER

Prof.Dr. Georg Cadisch MEMBER

Assoc.Prof.Dr. Attachai Jintrawet

THESIS ADVISORY COMMITTEE ADVISOR

Prof.Dr. Georg Cadisch O-ADVISOR

Assoc.Prof.Dr. Attachai Jintrawet

22 February 2013

© Copyright by Chiang Mai University

ACKNOWLEDGEMENTS

The author expresses her sincere gratitude for the excellent supervision of this thesis to Prof. Georg Cadisch, Prof. AttachaiJintrawet and Dr. Sergey Blagodatskiy. Special thanks toAllaNussir for his invaluable support. The author also thanks Dr. CarstenMarohn, Rebecca Schaufelberger, Thanh Nguyen, KefyalewSahle, Reza Golbon and Jonatan Müller very much for the many ways in which they contributed to improve this thesis. Finally, the author would like to thank her parents Hans and Paola and her sister Lucía for their constant support in all enterprises in her life. The author also thanks Fiat Panis Foundation for supporting her studies.

Claudia Amelia Huber

<mark>ລິບສີກຣົ້ນหາວົກຍາລັຍເຮີຍວໃหນ່</mark> Copyright[©] by Chiang Mai University All rights reserved