
SIGNAL PROCESSING OF SOIL GAS RADON DATA AT LAND COOPERATIVES AREA,
AMPHOE PHRAO, CHANGWAT CHIANG MAI
FOR EARTHQUAKE PREDICTION

MANEERAT KANAREE

A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN
PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF
MASTER OF SCIENCE
IN APPLIED GEOPHYSICS

GRADUATE SCHOOL
CHIANG MAI UNIVERSITY

FEBRUARY 1998

SIGNAL PROCESSING OF SOIL GAS RADON DATA AT LAND COOPERATIVES AREA,
AMPHOE PHRAO, CHANGWAT CHIANG MAI
FOR EARTHQUAKE PREDICTION

MANEERAT KANAREE

THIS THESIS HAS BEEN APPROVED
TO BE A PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF MASTER OF SCIENCE
IN APPLIED GEOPHYSICS

EXAMINING COMMITTEE

	CHAIRMAN
Prof. Dr. Kittichai Wattananikorn	
	MEMBER
Asst. Prof. Sodchuen Viboonsek	
	MEMBER
Assoc. Prof. Sompong Chantaramee	

17 February 1998

ACKNOWLEDGEMENTS

Financial support for this study was provided by the National Science and Technology Development Agency.

I would like to express deep gratitude and appreciation to my supervisor, Professor Kittichai Wattananikorn, for his supervision, valuable critical discussions, and reading of the draft thesis. Many thanks go to Assistant Professor Sodchuen Viboonsek, and Associate Professor Sompong Chantaramee for their useful advice concerning theoretical aspects and special thank to Mr. Sidney L. Rieb for correcting my English.

There were many people whose assistance was very important in making this thesis complete. These include Dr. Pisanu Wongpornchai, Assistant Professor Dr. Sampan Singharajwarapan, Assistant Professor Dr. Fongsaward S. Singharajwarapan, and Dr. Wittaya Kandharosa. Also, there were department members and others who helped and gave much valuable advice, particularly Mr. Jirapong Sungkoom, Mr. Theerapong Silawongsawat, Mr. Adul Yawichai, Mr. Akaruchai Nochaiwong, Miss Sarunya Hemjinda, Miss Yupaporn Mengtalek, Mr. Pun-Arj Chairatana, and Mr. Puttisak Naksoontorn.

I also am grateful to Mr. Piboon Tooprakai, who supplied useful software, and to Khun Kannika Puranphat, and Khun Adisorn FoongKajorn who supplied meteorological data and earthquake data.

Finally, I also thank my beloved mother and father for their most valuable support.

Maneerat Kanaree