

Department of Civil Engineering and Geological Sciences

Challenges and Innovation in Civil and Environmental Engineering

Title: "Tsunamis"

Speaker: **Robert A. Dalrymple**
Willard and Lillian Hackerman Professor,
Johns Hopkins University

Date: **Thursday, February 21, 2008**

Time: **6:00pm – 7:15pm**

Place: **138 DeBartolo Hall**

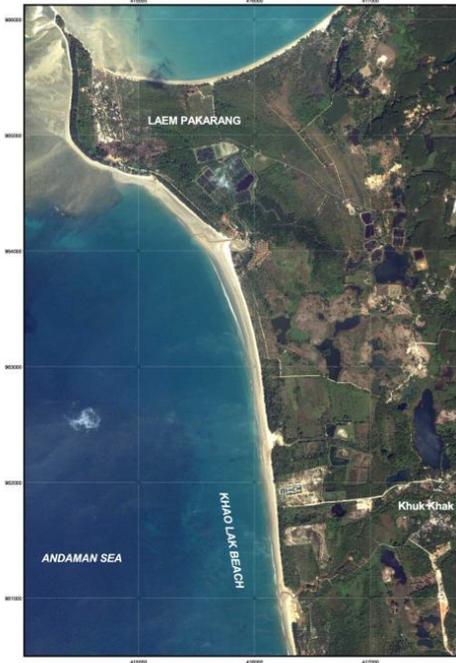


After the December 26, 2004 tsunami, the American Society of Civil Engineers send several teams to the Indian Ocean to determine what lessons could be learned from this tragedy and how the civil infrastructure fared during the event. This seminar shows some of the experiences of the team that went to Thailand to examine the damage caused by the tsunami and the effect of this wave on the coastline.

Tea, coffee, pastries and an opportunity to meet the speaker will take place at 5:30pm in the CE/GEOS office-conference room, Fitzpatrick 156

THAILAND / Northern Khao Lak Bay

IKONOS - January 30, 2003 - PRE-DISASTER IMAGE



1 : 12.500

IKONOS - December 29, 2004 - POST-DISASTER IMAGE



Center for Satellite based
Crisis Information
Singapore Mapping & Image Technology

German Remote Sensing Data Center
German Aerospace Center

Roads Data

Legend

- Major Road (paved)
- Major Road (unpaved)
- Dirt Road
- Coastline before Tsunami
- Affected Area

Interpretation

The map shows the northern Khao Lak Bay, Thailand before and after the devastating tsunami that came of December 26, 2004. On the northern edge the Laem Pakarang spit can be seen. The land area has washed away several major road buildings, local operations, and one can see how the coast line varies severely destroyed. The images were taken on January 30, 2003 and December 29, 2004, respectively. Along the shore line a strip of about 1000 m to 1500 m was washed away by the flood wave. As most parts of the Khao Lak Bay area and neighboring beaches are of similar topographic shape it is expected that similar destruction has occurred in the surroundings.

Scale: 1 : 12.500

Projection: UTM Zone 47 N
Spheroid: WGS84
Datum: WGS 84

Data Source

IKONOS imagery provided through
Center for Remote Imaging,
Sensing and Processing (CRISP)

SPACE IMAGING
Remote Sensing Data Services

Map created December 31, 2004 by JINGJIA LIU
Updated January 3, 2005 by JINGJIA LIU, Version 03

