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ต้นฉบับ

เลขที่เอกสารในระบบ E มท0618/ว10556

ฝ่ายบริหารทั่วไป(สลก. รับเอกสารจากภายนอก) รับที่ ชป 14288 วันที่ 2 พ.ย. 2555

เรื่อง แผนแม่บทป้องกันและบรรเทาภัยจากดลื่นสึนามิ พ.ศ.2552 - 2556

เรียน ผู้บริหารกรม	วันที่กำหนด
☐ เพื่อโปรดพิจารณา ☐ เพื่อโปรดดำเนินการ ☑ เพื่อโปรดทราบ	
และเห็นสมควรให้ ผส.บอ.ทราบต่อไป	
	หมายเหตุ

โสระยา เทศกาล

(นางณภัทร เรืองศานา)
ผ้าแน ปฏิบัติราชการแทน อนก.
2 พ.ย. 2555.

เรียน ผอ.สอน. อนน.ภาค และ ผบ.อนน.
เรื่องไม่ราชการทราบ และแจ้งเจ้าหน้าที่ในสังกัดทราบด้วยนั้น
เกี่ยวกับแผนแม่บทป้องกันและบรรเทาภัยจากดลื่นสึนามิ พ.ศ.2552-2556
โดยสามารถดาวน์โหลดได้จากเว็บไซต์ของกรมป้องกันฯ ตามเอกสารที่แนบ

(นายสมเจต พานทอง)
ผปษ. รักษาราชการแทน ผส.บอ.
2 พ.ย. 55

ดำเนินการแล้ว 4 พ.ย.55



กรมชลประทาน
เลขรับ 61 14288/55
วันที่ ...

ที่ มท ๐๖๑๘/๑๐๕๖

ถึง กรมชลประทาน

ด้วยกรมป้องกันและบรรเทาสาธารณภัยได้จัดทำแผนแม่บทป้องกันและบรรเทาภัยจากคลื่นสึนามิ พ.ศ.๒๕๕๒ – ๒๕๕๖ เพื่อใช้เป็นกรอบและแนวทางในการเตรียมความพร้อมรับภัยจากคลื่นสึนามิที่อาจจะเกิดขึ้นอย่างเป็นระบบ พร้อมทั้งได้แปลแผนแม่บทดังกล่าวเป็นภาษาอังกฤษแล้ว และเผยแพร่ผ่านทางเว็บไซต์กรมป้องกันและบรรเทาสาธารณภัย สามารถดาวน์โหลดได้ที่ www.disaster.go.th เลือก download_แผนแม่บท/แผนป้องกัน (กรมป้องกันฯ)_แผนแม่บทป้องกันและบรรเทาภัยจากคลื่นสึนามิ พ.ศ.๒๕๕๒ – ๒๕๕๖ ฉบับภาษาอังกฤษ



กรมป้องกันและบรรเทาสาธารณภัย
๒๖ ตุลาคม ๒๕๕๕

สำนักนโยบายป้องกันและบรรเทาสาธารณภัย
โทร. ๐ ๒๖๓๗ ๓๓๐๔
โทรสาร ๐ ๒๒๔๓ ๒๑๗๘

MASTER PLAN ON TSUNAMI DISASTER PREVENTION AND MITIGATION

(2009 – 2013)

DEPARTMENT OF DISASTER PREVENTION AND MITIGATION

MINISTRY OF INTERIOR

INTRODUCTION

The deadly and disastrous tsunamis triggered by undersea megathrust earthquake occurred on Sunday, December 26, 2004, with an epicenter off the west cost of Sumatra caused catastrophic damage in several coastal countries bordering Indian Ocean. This tragic incident has been dubbed one of the most destructive natural disaster in the history of mankind. In case of Thailand, this catastrophe tremendously devastated the Andaman Sea coastal communities of 6 southern provinces and claimed many thousands of life both Thai ad foreigners as well as causing tremendous material and economic losses. Many experts have contended that the lack of disaster – warning system and a general lack of preparedness were responsible for the high death toll and tremendous material and economic losses.

It has been assessed that the recurrence of tsunamis devastation is likely in Thailand. The assessment has been based on Thailand. The assessment has been based on Thailand's location within the active fault line zones with the greatest potential for the tsunami – generated undersea earthquakes which include Pacific Ring of Fire, Indonesian fault lines, Andaman and Nicobar fault lines or the Philippine fault system. These seismic fault lines are capable of producing distant tsunamis which possibly make landfall on both Andaman Sea and Gulf of Thailand coastal regions.

So as to be well – prepared to prevent and mitigate the disastrous effects of potential tsunamis and to foster integrated and collaborative efforts among agencies concerned in handling tsunami emergency, Department of Disaster Prevention and Mitigation, Ministry of Interior, hired Pangy Consultants Co. Ltd. To conduct a study and develop Master Plan on Tsunami Disaster Prevention and Mitigation. On 24 March 2009, the Cabinet approved this master plan to be used as framework and guideline for achieving the aforementioned purposes.

Department o Disaster Prevention and Mitigation highly anticipates that this master plan will effectively facilitate the preparedness arrangement and concerted efforts of all stakeholders in preventing and mitigating the deadly impact of tsunamis, and eventually minimizing the loss of life and property of the people and the government assets.

รอง อ.ปภ.บห.
เลขรับที่ 7915
วันที่ 26 ต.ค. 55
เวลา 11.00 น.

บันทึกข้อความ

ส่วนราชการ สำนักนโยบายป้องกันและบรรเทาสาธารณภัย ส่วนนโยบายภัยธรรมชาติ โทร. ๓๓๐๔

ที่ มท ๐๖๑๘/ ๖๒๔๔ **วันที่** ๒๔ ตุลาคม ๒๕๕๕

เรื่อง แผนการป้องกันและบรรเทาภัยจากคลื่นสึนามิ พ.ศ.๒๕๕๒ – ๒๕๕๖ ฉบับภาษาอังกฤษ

เรียน อธิบดี

๑. เรื่องเดิม

คณะรัฐมนตรีมีมติเห็นชอบแผนแม่บทป้องกันและบรรเทาภัยจากคลื่นสึนามิ (ระยะ ๕ ปี) เมื่อวันที่ ๒๔ มีนาคม ๒๕๕๒ โดยมอบหมายกระทรวงมหาดไทย (กรมป้องกันและบรรเทาสาธารณภัย) เป็นหน่วยงานประสานหลักร่วมกับหน่วยงานที่เกี่ยวข้องจัดทำแผนปฏิบัติการและแผนงบประมาณรองรับแผนแม่บทฯ ดังกล่าว และคณะรัฐมนตรีได้มีมติเมื่อวันที่ ๒ พฤศจิกายน ๒๕๕๓ เห็นชอบในหลักการแผนปฏิบัติการและงบประมาณ ระยะ ๓ ปี (พ.ศ.๒๕๕๔ – ๒๕๕๖) ภายใต้แผนแม่บทดังกล่าว (เอกสาร ๑)

๒. ข้อเท็จจริง

มีองค์กรระหว่างประเทศหลายองค์กรให้ความสนใจที่จะศึกษารายละเอียดของแผนแม่บทป้องกันและบรรเทาภัยจากคลื่นสึนามิ พ.ศ.๒๕๕๒ – ๒๕๕๖ สำนักนโยบายป้องกันและบรรเทาสาธารณภัยจึงขอความอนุเคราะห์ นายสุพร รัตนนาคินทร์ ผู้เชี่ยวชาญพิเศษด้านสาธารณภัย แปลแผนแม่บทฯ ฉบับภาษาไทยเป็นภาษาอังกฤษ ทั้งนี้ แผนแม่บทป้องกันและบรรเทาภัยจากคลื่นสึนามิ พ.ศ.๒๕๕๒ – ๒๕๕๖ ได้แปลเป็นภาษาอังกฤษเรียบร้อยแล้ว (เอกสาร ๒)

๓. ข้อเสนอเพื่อโปรดพิจารณา

เนื่องจากแผนแม่บทป้องกันและบรรเทาภัยจากคลื่นสึนามิ พ.ศ.๒๕๕๒ – ๒๕๕๖ จะครบวาระในปีงบประมาณ พ.ศ.๒๕๕๖ จึงเห็นควรเผยแพร่แผนแม่บทฯ ฉบับภาษาอังกฤษ โดยมอบหมายให้ ทส. ประชาสัมพันธ์แผนแม่บทฯ ดังกล่าว ทางเว็บไซต์ ปภ. ทั้งนี้ สน. ได้ประชาสัมพันธ์ให้หน่วยงานที่เกี่ยวข้องทราบโดยตรงแล้ว

จึงเรียนมาเพื่อโปรดพิจารณา หากเห็นชอบ สน.จะได้ดำเนินการในส่วนที่เกี่ยวข้องต่อไป

(นางสาวชฎาภร บุญพีระณัช)
ผู้อำนวยการส่วนนโยบายภัยธรรมชาติ
รักษาราชการแทน
ผู้อำนวยการสำนักนโยบายป้องกันและบรรเทาสาธารณภัย

(นายภูสิต สมจิตต์)
ผู้อำนวยการกองคลัง รักษาราชการแทน
เลขานุการกรม

ว่าที่ร้อยตำรวจโท

MASTER PLAN

MASTER PLAN ON TSUNAMI DISASTER PREVENTION AND MITIGATION

(2009 – 2013)

DEPARTMENT OF DISASTER PREVENTION AND MITIGATION

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INTRODUCTION

BACKGROUND AND STUDY GUIDELINE

1. BACKGROUND

The powerful and destructive tsunami triggered by underwater earthquake measured at 9.3 on Richter scale on 26 December, 2004 caused disastrous consequences in many countries bordering Indian Ocean. It killed approximately 230,000 people including missing, and left behind incalculable economic losses. In Thailand, hundreds of coastal community were severely devastated by this unprecedented natural disaster. It claimed more than 8,000 lives of both Thai and foreigners including missings and maimed 8,475 people. In addition, 58,550 people or 12,815 families were affected, 4,806 houses were destroyed, and the loss of livelihood physical assets were worth approximately 14,491 million Baht.

Though Thailand was able to handle post tsunami situation well enough, its disaster management practices reflected some weaknesses which required immediate improvements. These improvements will put preparedness in place beforehand and strengthen and enhance the capacity of all sectors of the society to counter the potential tsunami and to reduce the potential losses.

In addition, the tenth National Economic and Social Development (2007 - 2011) gives priority to the formulation of comprehensive disaster management plan which encompasses all phases of disaster managements cycle. Further, it as well highlights long – terms disaster prevention programme, the development of early – warning system and a provision of immediate relief assistance.

Thus, Department of Disaster Prevention and Mitigation hired Panya Consultants Co. Ltd. to conduct a study on master plan on tsunami disaster prevention and mitigation formulation project. This master plan will provide guidelines and framework within which agencies are able to perform the task in a concerted manner and in line with National Civil Defence Plan 2005 (now replaced by National Disaster Prevention and Mitigation Plan (2010 – 2014) and the tenth National Economic and Social Development Plan (2007 – 2011). The six – month time frame for a study started from July 25, 2006 to January 2007. And the cost of the study was 3.499 million Baht.

So as to acquire Master Plan on Tsunami Disaster Prevention and Mitigation of which contents are intact and technically compliant with international acceptance criteria, Chairman of National Civil Defence Committee (Now replaced by National Disaster Prevention and Mitigation Committee) issued on order no. 001/2006 dated 13 March 2006 set up Ad Hoc Sub – Committee for Formulation of Master Plan on Tsunami Disaster Prevention and Mitigation to undertake the following functions ;

- Preparation of terms of reference.
- Preparation of hiring consultant method.

- Assuming the role of focal point for hiring consultant to formulate the master plan conforming to terms of reference.

- Collaborating with Works Inspection and Acceptance Committee

This Ad Hoc Sub – Committee was chaired by Deputy Permanent Secretary for Ministry of Interior (Chief of Disaster and Country Planning Missions Cluster) whilst Director General of Department of Disaster Prevention and Mitigation was Vice Chairman, Members of the Ad Hoc Sub – Committee comprised representatives from following agencies;

- Office of Permanent Secretary for Ministry of Agriculture and Cooperative
- Office of Permanent Secretary for Ministry of Public Health
- Office of Permanent Secretary for Ministry of Education
- Office of Permanent Secretary for Ministry of Information and Communication Technology
- Royal Thai Army
- Royal Thai Navy
- Royal Thai Air Force
- Royal Thai Police
- National Disaster Warning Center
- Department of Public Works and Town & Country Planning
- Department of Local Administration
- Thai Meteorology Department
- Department of Mineral Resources
- Department of Marine and Coastal Resources
- Marine Department
- Geo Informatics and Space Technology Development Agency
- Department of Social Development Welfare
- Department of Insurance
- Asian Disaster Preparedness Center

2. STUDY GUIDELINE

In exploring primary data, the consultants had studied and reviewed reports relevant to 2004 Indian Ocean tsunami calamity management efforts of various agencies which included National Disaster Warning Center (Ministry of Information and Communication Technology), Department of Disaster Prevention and Mitigation (Ministry of Interior), Narenthorn Center (Ministry of Public Health), Body Identification and Repatriation Center (Royal Thai Police), Central Institute of Forensic Science (Ministry of Justice), Asian Disaster Preparedness Center, Local Administration Organizations, charity foundations etc., as well as of foreign agencies. To access and avail such information, documents and additional remarks, the consultants paid the courtesy calls on and conducted interviews with executives and staffs of the above – mentioned agencies.

In addition, the consultants conducted field trip surveys to severely damaged areas which included Ban Nam Khem and Bang Niang Beach in Takua Pa District of Phang Nga Province; Patong and Kamala Beaches in Phuket Province; Ao Nang Bay and Phi Phi Islands in Krabi Province. Simultaneously, the consultants inspected the model and locations of warning towers and information dissemination towers in main communities, and interviewed with the officials of Department of Disaster Prevention and Mitigation's affiliated agencies in locality such as Disaster Prevention and Mitigation Regional Center 11 (Surat Thani) ; Disaster Prevention and Mitigation Provincial Offices in Phang Nga, Trang, Phuket, Ranong, Krabi and Songkhla Provinces; Disaster Prevention and Mitigation Academy, Phuket Campus; and some specific communities.

A SUMMARY OF STUDY FINDINGS : KEY ISSUES

2.1 POTENTIAL TSUNAMI HAZARD ANALYSIS AND ITS CONSEQUENCES IN THAILAND

To conduct an analysis of tsunami occurrence and its potential impact on coastal communities of Thailand, the consultants used historical data on the occurrence of tsunami available from www.ngde.noaa.gov. By basing on an assumed occurrence of 9.0 magnitude tsunami generated earthquake with potential impact on communities located along Andaman Sea and Gulf of Thailand Coasts, two shallow water equations namely, 1) Shallow Water Equation Linear Long Wave and 2) Nonlinear Shallow Water Equation were applied to calculate tsunami travel time towards Thailand Coasts. In this context, four source locations of tsunami generated earthquake were identified as four case study areas.

In case of Andaman coast, the analysis reveals that the initial tsunami wave triggered by assumed 9.0 magnitude subduction zone earthquake on Nicobar Plate west of Nicobar Islands will reach Thailand's Andaman coast within 2 hours after the quake occurred. This case will cause the most severe damage and casualties due to very high intensity of the waves. It is projected that wave height may range from 2 meters upto more than 15 meters depending on several factors, for instances the topography of the seafloor and the bay, the shape of shorelines, corals and marine vegetation, and the slope of seashore. In case of Andaman coastline, the attack of tsunami will be preceded by retreating of sea water and exposure of the shallow seafloor a long way out due to the trough arrives first. This withdrawing of the sea is then followed by the arrival of the crest of tsunami waves with enormous speed. Tsunamis generally consist of a series of waves and the first waves to arrive on the coast sometimes may not be the highest one.

Gulf of Thailand coastal communities may be threatened by the initial tsunami wave triggered by Philippine Sea Plate west of Philippine Archipelago. But due to shallowness of water in the Gulf of Thailand coupled with the remoteness from the source of origin, it is estimated that the tsunami waves will take more than10 hours to reach Gulf of Thailand coast. The wave height appears to be less than 2 meters.

The result of an analysis on the intensity and travel time of earthquake tsunami towards Thailand coast can be summed up as follow;

1) Andaman Sea Coast : The travel time of tsunami wave from generating location to reach Phuket Province coastal area is approximately 2 hours. The wave height will range from 10 – 15 meters depending on topography of seafloor and the slope of the beaches. The tsunami high risk areas that projected to be most heavily damaged include Surin Islands, Phra Thong Island and Bang Niang village of Phang Nga Province respectively.

2) Gulf of Thailand Coast : Tsunami waves will take approximately 14 hours from tsunami generating location to reach Narathiwat, the southern – most province coast. Due to the shallowness of water in Gulf of Thailand, the amplitude of tsunami wave will be moderate, about 2 meters high. The tsunami high risk area that projected to be most affected will be coastal communities of Narathiwat Province.

2.2 IDENTIFICATION OF RISK AREAS AND LEVEL OF INTENSITY

The consultants had applied diversified methods include the followings to study the tsunami at – risk areas;

- Reviewing and exploring the data on village areas situated along Andaman and Gulf of Thailand Coasts of National Statistical Office 2004.
- Reviewing the lists of December 26, 2004 tsunami ravaged villages and tsunami at – risk villages included in Master Plan on Tsunami Evacuation 2005 formulated by Department of Disaster Prevention and Mitigation, Ministry of Interior.
- Accumulating the actual site survey results of various experts and exploring key locations such as beaches, tourist attractions, municipality areas, industrial estates etc., from Google Earth 2006.

The results obtained through the study were then, integrated into the calculated wave height at various areas which considered to be vulnerable to tsunamis attack. In addition, comparison has been made between the calculated wave height and the real wave height of tsunami occurred on December 26, 2004. Base on this comparison, the consultants chose the greater wave height as expected wave height for each area at – risk. The sum of areas situated on both Andaman and Gulf of Thailand coasts that are considered to be at particular risk from potential tsunami include 1,416 villages, 324 tambons, 97 districts and 27 provinces. Number of areas at risk is categorized as follow :

1) At – risk areas on Andaman Coast include 509 villages, 102 tambons, 27 districts, and 6 provinces.

2) At – risk areas on Gulf of Thailand Coast include 907 villages, 222 tambons, 70 districts, and 16 provinces.

The sum of areas considered to be at particular risk from potential tsunami and level of tsunami intensity are illustrated in tables 2.2-1 and 2.2-2.

Table 2.2-1 Sum of Areas at Risk on Andaman Coast and Level of Tsunami Intensity

Area At Risk				Level of Tsunami Intensity			
Name of Province	No. of District	No. of Tambon	No. of Village	Level 4	Level 3	Level 2	Level 1
1. Ranong	3	11	45	1	7	12	25
2. Phang Nga	7	22	106	12	31	21	42
3. Phuket	3	13	69	-	34	14	21
4. Krabi	5	19	113	-	3	37	73
5. Trang	5	21	102	-	-	6	96
6. Satun	4	16	74	-	-	4	70
Toal	27	102	509	13	75	94	327

Table 1.2.-2 Sum of Area at Risk on Gulf of Thailand Coast and Level of Tsunami Intensity

Area At Risk				Level of Tsunami Intensity			
Name of Province	No. of District	No. of Tambon	No. of Village	Level 4	Level 3	Level 2	Level 1
1. Sumut Prakan	3	4	13	-	-	-	13
2. Chon Buri	5	15	41	-	-	-	41
3. Rayong	3	13	32	-	-	-	32
4. Chanthaburi	4	9	45	-	-	-	45
5. Trat	6	16	88	-		-	88
6. Chachoengsao	1	2	8	-		-	8
7. Samut Sakhon	1	6	11	-		-	11
8. Samut Songkhram	1	4	22	-		-	22
9. Phetchaburi	4	12	45	-		-	45
10. Prachuab Khiri Khan	8	24	80	-		-	80
11. Nakon Sri Thammarat	6	23	114	-	-	-	114
12.Surat Thani	8	19	53	-	-	-	53
13.Chumphon	6	20	97	-	-	-	97
14. Songkhla	6	29	144	-	-	-	144
15. Pattani	6	20	72	-	-	1	71
16. Narathiwat	2	6	42	-	-	1	41
Total	**70**	**222**	**907**	-	-	2	**905**

Criteria for Determining Tsunami Intensity Level

In attempting to set up criteria to determine level of tsunami intensity in the areas at risk, the consultants have conducted the comparison between the calculated wave height and level of intensity of tsunami waves travelling towards the shorelines through the application of Shuto's intensity scale (Shuto, 1993). In

addition, the consultants have simultaneously taken the damage survey results and wave height in 2004 Indian Ocean tsunami affected areas into consideration to achieve the criteria for determining the level of tsunami intensity in different locations. Details of tsunami intensity levels and description are tabulated below ;

Level of Intensity	Description
4 (Wave height greater than 10 metres)	Causes catastrophic damage to life and physical assets. Livelihoods are completely ruined. Water backwashes drift vehicles and other objects into a sea. Big boulders and vessels are drifted ashore. All types of building are demolished.
3 (Wave height : 5 – 10 metres)	Causes severe damage to life and property. People are swept along by tsunami waves. Small vessels are demolished. Wooden and masonry buildings are totally destroyed. Reinforced – concrete buildings are partly destroyed.
2 (Wave height : 2 – 5 metres)	Causes moderate damage. Number of people are swept off by waves. Causes damage to small vessels. Most wooden houses are swept away and masonry buildings are partly demolished. Most reinforced – concrete buildings withstand.
1 (Wave height less than 2 metres)	Causes minor damage. Small vessels may be swept ashore or overturn. Wooden houses may collapse. Reinforced – concrete buildings withstand.

Notwithstanding, the case that requires more detailed data, it is essential to provide additional sea floor topography data and detailed topographic map for further calculating wave runup height.

2.3 COLLECTING RELEVANT DATA OF WARNING TOWER, SAFE AREA AND EVACUATION ROUTE

The consultants gathered relevant data of existing warning towers which comprised 99 towers completely installed during phase 1 in 6 provinces along Andaman Sea Coast namely, Ranong, Phang Nga, Phuket, Krabi, Trang and Satun, and those 30 out of 48 warning towers completely installed during phase 2 in 11 provinces along Gulf of Thailand Coast namely, Chon Buri, Rayong, Trat, Phetchaburi, Prachuab Khiri Khan, Chumphon, Surat Thani, Nakhon Sri Thammarat, Songkhla, Pattani and Narathiwat. Further, the consultants checked the coordinates of warning towers and created warning tower location map.

In conducting survey to obtain relevant data of safe areas and evacuation routes, the consultants selected three beaches, namely Kamala Beach in Kratu District of Phuket, Bang Niang Beach in Takuapa District of Phang Nga (Andaman Sea Coast) and Samila – Chalatat in Maung District o Songkhla (Gulf of Thailand Coast) as case study areas. In addition, the consultants classified the evacuation movement into three categories by basing on required evacuation time to reach a safe area. In case where it takes too long and where the terrain is flat and a safe area is farther off, the consultants have proposed to construct evacuation shelter as well as designating additional evacuation routes.

2.4 GUIDELINE FOR TSUNAMI DISASTER MANAGEMENT IMPROVEMENT

Through reviewing and analyzing 2004 Indian Ocean tsunami lessons learned, the consultants had come across problems and limitations in various components of disaster management. Consequently, the consultants have proposed guidelines for improving disaster management pactices which are delineated as follow :

2.4.1 Institutionalization and Dissemination of Disaster Knowledge :

Deadly impact imposed by destructive and extremely dangerous tsunami waves on people is avoidable and can be minimized if they have been well – informed of tsunami waves appearance and behavior, and if the effective early warning system is in place. In the presence of knowledge – based information and activation of warning system local residents and visitors, will be fully aware and leave the area at risk to safe place in time. As the consequence, institutionalization and dissemination of disaster knowledge through mainstreaming into educational curriculum, organizing public educational training, publicizing via diversified mass media and arranging disaster awareness activities, are essential. These will facilitate the people's disaster risk perception, enhance disaster knowledge – based information of the people, foster public awareness and build public safety mind. People will be well – informed of the nature of tsunami hazard and the harbingers of impending tsunami, as a consequence, they can escape the lethal waves in time.

2.4.2 Improvement of Early Warning System

Currently, an issuance of tsunami warning is under responsibility of National Disaster Warning Center (NDWC), Ministry of Information and Communication Technology. Upon receiving data regarding seismic activity or an earthquake from diversified agencies, NDWC will conduct database check and analysis through the application of mathematical model and as well takes into account the data received from tsunami detection buoy and real time data from tide gauge. In case the result of an analysis meets established warning criteria, warnings will be transmitted through early warning system to warn the people in the area at risk to evacuate. From the study, the consultants found that the efforts to establish tsunami warning system has made substantial progress which includes an establishment of National Disaster Warning Center, installation of warning towers, launching Deep – Ocean Assessment and

Reporting of Tsunami buoy etc. The followings are additional improvements recommended by the consultants :

- Currently, there exists only 1 buoy located quite further off Thailand coast, the launch of more buoys is required.
- Improving warning system to link at the provincial level
- Testing tsunami siren sound to ensure thorough coverage area particularly the crowded tourist spots.
- Extending warning information dissemination coverage area to reach household level through community radio broadcast, village news broadcast tower or annoucing the warnings from mobile vehicle.

2.4.3 Disaster Management Improvement

From the results of a study of 2004 Indian Ocean Tsunami study, the consultants have encountered several hindrances surrounding tsunami disaster management in Thailand. In this context, they have provided specific improvement solutions that will enhance more effective management as follow :

1) Introduction and Adoption of Incident Command System

The confusion caused by multiple, conflicting directives during emergency response coupled with the involvement of multiple agencies and numerous people drawn from multiple sources have resulted in coordination problems. Therefore, to achieve smooth and harmonious interagency collaboration, a clear action plan must be put in place. The consultants have recommended introduction and adoption o internationally accepted Incident Command System in disaster management. An adoption of this system will provide clear operational goals, common action plan, smooth and effective coordination and clear and unity of command and reporting.

2) Rescue Operations Preparedness

A huge number of approximately 20,000 people affected by 2004 Indian Ocean tsunami, widespread devastation and lack of essential tools ad equipments had caused the problems surrounding rescue operations in Thailand. In this context, the consultants have proposed the arrangement of preparedness in advance which includes establishment of databases on search and rescue personnel, tools, mechanical equipments, concrete cutting machines, emergency auxiliary lighting trucks, crane truck etc. In addition the preparation of standard operating procedure, operational budget and clear task division and assignment procedures are required as well.

3) Communication Backup

Communication disruption in case of any large – scale disaster is the major bottleneck in disaster management particularly when all modes of communication become inoperable. Mobile phone network has encountered the same trouble due to the excessive calls which lead to extreme congestion beyond network capacity. In addition, traditional network system already in force breaks down due to its damaged facilities. In order to provide the solutions for problems arising around communication, the consultants have recommended alternative mode of communication which include the introduction and adoption of mobile satellite communication system , the use of

official VHF/UHF radio communication system, amateur radio, citizen band radio, and the use of 10% reserved capacity for the broadcast of private radio operators as well as diverting the calls that are not relevant to other areas to avoid network failure.

4) Establishing Database

The existence of appropriate and relevant databases are necessary for disaster management. Statistical population database must be established in advance to provide data related to persons living in at – risk areas for the useful purpose of disaster management. Having database on networks of emergency response agencies and their disaster management resources in place, will facilitate the rapid mobilization of those resources to handle emergency situation and provide assistance to affected people. In post disaster situation, relevant database will contain statistical data relating to affected people, fatalities, casualties, health care facilities, and data related to the reception and distribution of donated items. Department of Disaster Prevention and Mitigation should have its own task – based database program. In this context, the consultants have developed database design software for the useful purpose of helping manage relief efforts for tsunami affected people as the database model. This database model has been developed from Microsoft Access Programming and use Microsoft Visual Basic Language which is widely used and easy for further development.

5) Improving Emergency Medical and Public Health Service and Mass Fatality Management

A provision of emergency medical care for the massive influx of injured persons from 2004 Indian Tsunami incident in Thailand had encountered many difficulties due to inadequate medical facilities, medicines and medical supplies. However, the government were able to respond with rapid mobilization of local and non – local medical staff and public health practitioners to provide immediate assistance. In this regard, the surgical teams had been dispatched to perform the task prior to the formal request. In addition, a large number of doctors and nurses had volunteered in providing emergency medical service to the patients as well. Still, some aspects surrounding immediate medical service need improvement through; 1) revising and Action Plan for Emergency Medical and Public Health Service to allow the clear decision – making and command by introduction and adoption of Incident Command System for dispatching critical care medical teams; 2) enhancing and strengthening the capacity of emergency medical service skills, 3) arranging for medical care; engaging and involvement of local medical and health task forces to deal with the potential spread of infectious diseases such as diarrhea, respiratory disease, meningitis and contaminated foods and drinking waters as well as polluted health – threatening environment; 4) setting up emergency medical service center and temporary laboratory facilities in the affected areas and disease surveillance and control teams.

At the initial stage, management of dead bodies after tsunami calamity in Thailand had encountered many major problems and difficulties. This was due to the huge death toll that climbed up to 5,365 people, being unprepared to record related data and information, insufficient of devices for tagging dead bodies, absence of Interpol's standard protocol in examining dead bodies, problems surrounding preservation of human remains awaited for identification, lack of multiagency coordination system, and insufficient forensic experts. At the later phase, in collaboration with Interpol and other foreign countries' forensic teams, Thailand was able to conduct tsunami victim identification using Interpol's standard protocol. Basing on type of evidence, the identification of tsunami victims were classified as follow; 42.4% were identified by using dental examination; 34.3% using fingerprint records; 22.4% using DNA analysis; and 0.9% using physical evidence. The consultants have proposed the solutions for the abovementioned problems of which include; clearly designate the host agency for mass fatality identification; establish disaster victim identification protocol which is compatible with local context and is internationally accepted; improve AM and PM data recording formats; prepare for materials and instruments required for body identification which include tag, camera, computer, DNA matching software etc; put in place the guidelines on interagency coordination and clarify division of labour among collaborative agencies.

6) Provision of Relief and Assistance, Logistics Management and Livelihood Recovery

A rapid provision of relief and assistance of support and restore affected people's disrupted every life as well as their morale and spirit to actual condition prior to the occurrence of tsunami disaster are essential. At the initial phase, the immediate relief affects involved providing foods, drinking water, clothes and temporary shelters. Later on, livelihood assistance, schooling facilities for children, permanent houses etc. are provided. From the study, the consultants found that the influx of donated items had exceeded actual need, and some of them particularly clothings were not suitable for local context. In addition, the excessive amount of donated items had resulted in major problems concerning transportation, storing, and distribution. In this context, the consultants have proposed to request for cash donation and a purchase of locally produced basic necessities to cut transportation cost and to support local economy.

The problems in providing livelihood assistance arose from the different cash compensation procedures of individual agency which led to the difference in inequitable amount of cash compensation provided and the quickness of processing claims. Thus, the cash compensation procedures which are currently in force need to be revised accordingly. In addition, the lack of baseline database had posed challenging problems to the authorities in distributing livelihood equipments to affected people such as a case of providing fishing boats. The lack of baseline database had as well caused problems in providing cash compensation for damaged housings to the affectees. Therefore,

an establishment of disaster management – related databases and preparing a piece of land for constructing temporary shelters and permanent houses will eradicate such problems.

In Addition, the provision of relief aid to both domesticated and wild animals should be taken into consideration.

2.4.4 Additional Recommendations for Improvement

An involvement of local administration organization and local community is the critical element of sustainable and effective disaster management. Through this involvement, community knowledge regarding local conditions can be put to good use particularly in planning to deal with emergency situation in accordance with actual local condition and circumstances. In addition, the local administration organization is capable of setting operating budget for implementing disaster management activities at all phases of disaster management cycle which includes prevention of areas at risk, emergency response and mitigation, and rehabilitation. Moreover, the rescue teams and emergency medical service units of local administration organization can be mobilized to work in collaboration with non – local counterparts. Local community should take part in disaster risk management conforming to community - based disaster risk management approach (CBDRM). Community Disaster Management Committees within CBDRM structure are capable of under taking disaster prevention activities, providing assistance during initial stages, considering to select safe areas and identifying evacuation routes, and participating in organizing disaster exercise. Other members of community can apply to become civil defence volunteers and the member of On Tambon One Search and Rescue Team.

CHAPTER 1

TSUNAMI DISSTER PREVENTION AND MIIGATION STRATEGY

CHAPTER 1

TSUNAMI DISASTER PREVENTION AND MITIGATION STRATEGY

1. PRINCIPLE AND RATIONALE

Formulation of tsunami disaster prevention and mitigation strategy is based on disaster management plan under the Tenth National Economic and Social Development Plan (2007 – 2011)[1] and National Civil Defence Plan 2005. [2] The formulated strategy will be served as operational guidelines for interagency integrated efforts to prevent and mitigate disaster from tsunami.

2. CONCEPTUAL FRAMEWORK

The proactive and holistic approach in disaster management has been introduced and adopted for putting tsunami disaster prevention and mitigation strategy into action. This approach strongly advocates management of disaster during all phases of disaster management cycle which encompasses prevention and impact reduction, preparedness, emergency response and recovery. In addition, the proactive and holistic approach has emphized the following components of disaster management viz., development and transfer of disaster knowledge to educate the officials and general public on the nature and behavior of tsunami and the proper measures to be taken for self – protection and safety; tsunami early warning system, evacuation preparedness, preparing safe places for evacuees and involvement of the community in tsunami disaster management. In addition, new technology coupled with local knowledge and practices has been introduced and applied to analyze the probability of tsunami occurrence and tsunami risk to coastal areas and to enhance warning system for the useful purposes of fostering self reliance community. Moreover, this approach as well emphasizes the solutions of disaster management related problem through the effective and close multi stakeholder operational coordination to ensure their integrated joint operations.

3. PRINCIPLE AND GUIDELINE FOR TSUNAMI DISASTER PREVETION AND MITIGATION FOR THE NEXT 5 YEARS

An initiative on tsunami disaster management for the next 5 years will serve as guiding framework for all stakeholders involved to deal with tsunami disaster. The principle and guideline for tsunami disaster management have put the great emphasis on the following essential elements.

(1) Current Edition is the Eleventh National Economic and Social Development Plan (2012 – 2016)
(2) Replaced by National Prevention and Mitigation Plan (2010 – 2014)

1) Disaster Prevention : An adoption of proactive approach in all phase of disaster management has enormous potential to reduce human and economic loss due to disaster. A proactive and holistic disaster management approach has been extensively accepted and practiced in developed countries.

2) Multi – Stakeholder Participation : Promote an active involvement of private enterprise, charitable organization/foundation, community, and general public in integrated and holistic disaster management through a mobilization of their capacities. The long – standing experiences and potentials in disaster management have already been existed in all sector o the society, but lacks focal agency and integrating system to syngize these intangible assets used for disaster management.

3) Unified Incident Management System : The introduction and adoption of Incident Command System helps to put in place a unified incident management model. Incident Command System provides the window for a designated single person to command the incident response efforts at the incident command post where personnel drawn from a variety of agencies working in collaboration on a single incident. A single incident commander along with the staff are able to perform duties conforming to the unified incident management system designed without being interrupted by outsiders to achieve the incident objectives on time. The determination of the level of incident commander will be based on the incident severity and scale.

4) Community – Based Disaster Risk Management Approach : The application of this approach will create the new safety culture in Thai society. Within the context of safety culture, every Thai citizen is tasked with the responsibility of preparing for and protecting themselves from potential disaster. In this context, it is essential to put in place the criteria to facilitate every community or village and their people to organize themselves to deal with impending disaster preceding the arrival of outside assistance.

5)Efficient Early Warning System : Tsunami warnings must be accurate and early warning system must be capable of identifying rapid means to verify the existence of tsunami, and estimating an arrival time and potential impact locations. These requirements can be fulfilled through establishing end – to – end tsunami early warning system, coordinating with regional and international agencies involving in tsunami early warning system, as well as officially notifying people in advance to prepare themselves and to stay alert without causing public panic. And in case where a tsunami is confirmed, the tsunami warning system is capable of delivering tsunami warning to the people in a timely, thorough and effective manner.

6) Efficient Communication System : The effective and efficient main and auxiliary communication systems constitute an essential part in conducting disaster management activities. Main communication system includes fixed line telephone, mobile phone, facsimile, communication radio, internet, closed circuit radio etc. Communication failure or the severe interruption or loss of private and public main communication system due to catastrophic disaster as in case of 2004 Indian Ocean tsunami have severely hampered on going disaster response and

relief efforts. Thus auxiliary communication system is a necessary part of response and relief arrangement.

7) Human Resource Development : Human resource development is imperative for disaster management. Thus the arrangement of organized learning activities on the continuous basis is required to develop skill, knowledge and abilities regarding disaster management of general public, volunteer, staffs of private organization, charitable foundation/organization as well as government official. Through this development these people will be capable of dealing with complex disaster situation and newly emerged disaster. In addition, establishment of National Institute of Disaster Management is required to carry out the tasks regarding human resource development at national level.

8) Institutionization of Disaster Volunteer System : Due to bureaucratic reform in 2002, the civil service has been downsized and number of government employees has decreased overtime. Accordingly, should the large – scale disaster occur, the shortage of government employee to deal with may follow. Thus, an initiation of disaster volunteer system in advance is required for the useful purpose of helping supplement and support government employees.

9) Establishing Disaster Management Partnership Network : In addition to the involvement of in – country disaster management partnership networks, the international disaster management partnership networks are as well essential particularly when the severity and extent of disaster are beyond the internal capacity to cope with. Moreover, it is deemed appropriate to engage both internal and external disaster management partnership networks in the annual disaster simulation exercise to test and ensure ongoing preparedness for potential disasters.

10) Capitalizing on Lessons – Learned : The actual experiences and lessons – learned gained from 2004 Indian Ocean tsunami have provided valuable information useful for earnest and continual improvement of current disaster management system. The relevant case study should be conducted so as to make a good use of available study findings as a basis in improving weaknesses and strengthening the existing disaster management practices.

CHAPTER 2

MASTER PLAN ON TSUNAMI DISASTER PREVENTION AND MITIGATION

An effective master plan regarding tsunami disaster management needs to be formulated in accordance with holistic tsunami disaster prevention and mitigation strategy which includes attention to all phases of disaster management cycle – prevention, mitigation and preparedness in the pre – disaster phase; emergency response during a disaster, and recovery and reconstruction in the post – disaster phase. In addition, the aforesaid master plan must include the identification of mission, measures as well as designation of multiple agencies needed to collaborate in an integrated manner within conceptual framework stated in the Tenth National Economic and Social Development Plan (2007 – 2011) and National Civil Defence Plan 2005. Further, it is required to highlight the importance of involvement of public and private sectors as well as the general public. In this context, the multi – stakeholder dialogue meetings should be held to provide the venue where the representatives from all sectors of the society can express their viewpoints useful for formulating tsunami disaster prevention and mitigation master plan.

1. MISSION

To prevent, mitigate, keep close watch on areas at risk, and to provide assistance in order to reduce the loss of life and property to the least extent, as well as to restore well – being of affected people and to rehabilitate affected areas through multi stakeholder involvement and integrated approach.

2. VISION

To reduce losses and risk from tsunami through developing disaster knowledge and disseminating to the general public; implementing disaster prevention and mitigation activities in the areas at risk : ensuring standardized, thorough coverage and effective disaster warning dissemination, institutionalizing integrated disaster management system; enhancing work capacities and boosting the morale of the staffs; providing rapid, prompt and efficient rescue services; and through restoring livelihoods of affected people and rehabilitating disaster stricken areas to normal level as soon as possible.

3. OBJECTIVE

1) To prevent and reduce the potential impact of tsunami on life and property of people, as well as to restore disaster stricken areas and security of life of affected people to normalcy as soon as possible.

2) To achieve the integrated master plan on tsunami disaster prevention and mitigation.

3) To provide framework and guidelines for state agencies and private sector organizations concerned to employ in developing action and budget plans.

4. TARGET

1) To reduce loss of life and property.

2) To restore disaster stricken areas and security in life of affected people to normal level as soon as possible.

3) To ensure integrated disaster joint operations between public and private network agencies concerned.

4) To use as a reference for agencies concerned in developing action and budget plans.

5. STRATEGIC ISSUE, STRATEGY AND KEY ACTIVITY

Thailand's Master Plan on Tsunami Disaster Prevention and Mitigation (2009 -2013) has identified strategic issues, goals, strategies, key activities, as well as key agencies and auxiliary agencies elaborated as follow :

5.1 : 1st Strategic Issue : Prevention and Impact Reduction

Goal : Be well – prepared for protecting residents, visitors and areas at risk from tsunami through the application of nine following strategies :

1s Strategy : Prepare to protect areas at risk from tsunami according to level of risk.

2nd Strategy : Develop and strengthen warning systems capable of providing enough lead – time and disseminating hazard warnings to remote household and community.

3rd Strategy : Formulate evacuation plan and identify safe locations and prepare evacuation routes beforehand.

4th Strategy : Educate general public, youth and educational establishment executives about tsunami, its catastrophic consequences, proper measures to be adopted for self – protection and safety, and probability of recurrence of tsunami.

5th Strategy : Provide the general public with an opportunity to participate in tsunami management.

6th Strategy : Put into place an action plan and conduct tsunami drill on a regular basis.

7th Strategy : Ensure public health and medical preparedness.

8th Strategy : Create disaster resources database and facilitate and ensure the availability of personnel, equipments and supplies. Mobilize these resource to take part in disaster simulation drill to test their state of

readiness. Initiate the system for receiving in – country and foreign assistance.

9th Strategy : Enhance skills and expertise of disaster management personnel of government agency and volunteers.

5.2 : 2nd Strategic Issue : Disaster Preparedness

Goal : Upon obtaining confirmation of tsunami existence, all agencies concerned are able to achieve and maintain state of readiness to respond to the imminent tsunami in a timely manner and keep the close watch on the situation. Keep general public at risk from tsunami well – informed and well – awared of a potential threat to rid of their panic and prepare to evacuate. This strategic issue comprises six strategies as follow :

1st Strategy : All agencies concerned arrange for full availability and serviceability of personnel, heavy equipments search and rescue devices as well as preparing basic necessities for survival.

2nd Strategy : Encourage interagency coordination to keep the close watch, share related information and to monitor the situation.

3rd Strategy : Ensure that auxiliary communication equipments, power supply system and mobile emergency illumination device are operable properly and at hand for emergencies.

4th Strategy : In a stepwise manner, disseminate awareness message to keep people well – informed of the impending tsunami.

5th Strategy : Warn local residents and tourists on beaches and in tsunami risk areas about imminent tsunami.

6th Strategy : Use baseline data in existing database to check all aspects of tsunami preparedness

5.3 : 3rd Strategic Issue : Disaster Emergency Management

Goal :

1) Be able to conduct speedy and proper search and rescue operations to save tsunami victims lives. Retrieve injured persons and transfer to medical facilities for further medical treatment and release identified dead bodied to relatives.

2) Provision of relief assistance during this phase must be in line with the changing needs of tsunami victims and situation within the first 24 hours, 48 hours and 72 hours following the incident.

This strategic issue comprises 7 strategies as follow :

1st Strategy : Set up Emergency Operations Center to serve as focal point for conducting incident command and for ensuring effective multi – agency coordination. In this context, an adoption of Incident Command System and setting of rule of engagement are required.

2nd Strategy : Review the existing database regarding disaster resources and coordinate with high capacity disaster management partnership networks such as military units and charitable foundation to assist in search and rescue operations.

3rd Strategy : Synergize the efforts of highly trained search and rescue teams drawn from public and private organizations and citizen corps for speedy operations.

4th Strategy : Ensure that effective communication system is in place.

5th Strategy : Bring the situation under control and provide search and rescue services and relief assistance. During the first 24 hours following the tsunami calamity, search and rescue operations and relief assistance efforts focus on searching for survivors, providing medical treatment to injured persons, distributing basic survival necessities which include drinking water, ready – to – eat foods, and clothings.

6th Strategy : Bring the situation under control and provide search and rescue services and relief assistance. During the 24 -48 hours following the tsunami calamity, search and rescue operations and relief assistance efforts focus on searching for survivors and property, seeking for relatives of disaster victims, erecting temporary shelters, managing dead bodies, providing medical treatment, foods, drinking water, medicine, cooking utensils and information regarding current disaster situation.

7th Strategy : Bring the situation under control and provide search and rescue services and relief assistance. During 48 – 72 hours following the tsunami calamity, search and rescue operations and relief assistance efforts focus on searching for survivors, seeking for relatives of disaster victims, providing medical treatment, managing dead bodies, providing basic survival necessities, distributing cash compensation, searching for property and providing information regarding provision of assistance.

5.4 : 4th Strategic Issue : Post – Disaster Management

Goal :

1) Improve living condition, physical well – being and livelihoods of affected people to normalcy through provision of medical treatment to fully recover, repairing damaged houses or providing new homes, arranging for vocational training and providing job opportunities, keeping mental spirit of affected people high, and ensuring immediate and continued access to quality education for all affected children.

2) Rehabilitate damaged infrastructural facilities to their previous state as soon as possible.

3) Rehabilitate damaged environments, control epidemics by preventing outbreak of disease and all types of pollution.

4) Organize the studies on the impact of tsunami disaster to gain valuable findings useful for reference as well as documenting lessons learned.

This strategic issue comprises 5 strategies as follow :

1st Strategy : Ensure rapid, thorough and unduplicated provision of relief assistance.

2nd Strategy : Coordinate with agencies or organizations concerned on provision of relief assistance to ensure their concerted efforts. In addition, collection of data concerning the relief efforts is required.

3rd Strategy : Conduct accurate rapid damage assessment survey to facilitate and speed up the approval of budget and relief programmes and to ensure meeting affected people requirements.

4th Strategy : Provide assistance services to affected people to restore their living condition and livelihoods as well as rehabilitating devastated areas to normalcy as soon as possible.

5th Strategy : Make good use of the lessons learned from disaster and findings gained from case study.

Details of strategic issues, strategies, key activities and collaborated agencies are illustrate in tables 2.1 – 2.4

Table 2.1 : 1st Strategic Issue : Disaster Prevention and Impact Reduction

Strategy	Key Activity	Key Agency	Supporting Agency
1. Prepare to protect areas at risk from tsunami corresponding to level of risk	1.1 Conduct a study on tsunami sources and tsunami impact on Thailand.	DMR, TMD, NDWC, other agencies concerned	DDPM, educational establishment
	1.2 Create hazard map for tsunami prone areas.	DMR, GISTDA, NDWC, other agencies concerned	DDPM, educational establishment, provincial government, district office, *local administration organization, community
	1.3 Survey and initiate tsunami structural mitigation measures which include tsunami wave barriers etc., or apply natural approach such as mangrove reforestation.	MCR, MD, LDD	NDMC, provincial government, district office, local administration organization, community
	1.4 Explore and improve land – use management in tsunami prone areas.	PWTCP, LDD	Provincial government, local administration organization
	1.5 Establish tsunami risk zones through application of town and country planning measures	PWTCP, LDD	Provincial government, local administration organization
	1.6 Conduct building and other installations inspections located in areas at risk.	PWTCP	Provincial government, local administration organization
2. Develop and strengthen warning system capable of providing enough lead – time and disseminating hazard warnings to remote household and community.	2.1 Establish in - country and international information network connections to access data concerning the occurrence of earthquake tsunami etc.	MOICT, DMR, TMD, NDWC, other agencies concerned	DDPM, other agencies concerned

*- Local administration organization : Includes provincial, tambon administration organizations, municipality

Table 2.1 : 1st Strategic Issue : Disaster Prevention and Impact Reduction

Strategy	Key Activity	Key Agency	Supporting Agency
	2.2 Prepare data for tsunami hazard analysis which include sea depth map, profile and elevation of coastal areas etc.	NHD, MCR, PWTCP, NDWC, LDD, other agencies concerned	-
	2.3 Apply the computer simulated programme and existing database to assess the probability of tsunami and use data received from DART buoy and sea level gauge to verify the existence of tsunami wave.	NDWC, TMD, other agencies concerned	-
	2.4 Notify local government agencies particularly the provincial government of the impending tsunami. Such notification must indicate the names of the provinces likely to be affected (both situated on the coasts of Andaman Sea and Gulf of Thailand).	NDWC, DDPM	Provincial government, district office, local administration organization, community
	2.5 Improve tsunami warning system to ensure more accurate detection of tsunami by installing more buoys and sea level gauges.	NDWC, TMD, NHD	MCR
	2.6 Improve tsunami alarm system to ensure the clear and widest coverage of alarm sound.	NDWC	Provincial government, local administration organization
	2.7 Develop methods for the dissemination of tsunami to reach remote household.	Provincial government, district office, local administration organization	DOLA, community at risk

Table 2.1 : 1st Strategic Issue : Disaster Prevention and Impact Reduction

Strategy	Key Activity	Key Agency	Supporting Agency
3. Formulate evacuation plan and identify safe location and prepare evacuation routes before hand.	3.1 Prepare drawings that show evacuation routes and safe locations.	Provincial government, district office, local administration organization, community at risk	DDPM and agencies concerned
	3.2 Pre – designate a safe location to take shelter in case of tsunami.	Provincial government, district office, local administration organization	DDPM and agencies concerned
	3.3 Prepare tsunami warning posters, signs and evacuation guidebook.	Provincial government, district office, local administration organization	DDPM
	3.4 Formulate evacuation plan and organize evacuation drills.	Provincial government, district office, local administration organization	DDPM, community at risk
4. Educate general public, youth and educational establishment executives about tsunami, its catastrophic consequences, proper measures to be adopted for self – protection and safety, and probability of tsunami recurrence.	4.1 Appropriately include tsunami related subject in curricula of educational establishments of all levels.	DDPM, MOEOPS, BECT, VEC, HEC, NDWC	DMR, DOLA, international organization, agencies
	4.2 Produce tsunami related articles and write news report and information for publicizing on regular basis.	DDPM, PDR, MCOT, MOICT, NDWC, agencies concerned	DMR, TMD, agencies concerned, television broadcasting stations

Table 2.1 : 1st Strategic Issue : Disaster Prevention and Impact Reduction

Strategy	Key Activity	Key Agency	Supporting Agency
	4.3 Set aside Day of Remembrance for tsunami victims and organize activities for event participants.	OPM	DDPM, DMR, NDWC, agencies concerned, provincial government, district office, local administration organization, community
5. Provide the general public with an opportunity to participate in tsunami management.	5.1 Adopt and put into practice the concept of community – based disaster risk management.	DDPM, concerned agencies	Provincial government, district office, local administration organization, community
	5.2 Organize and train "Mr. Warning", a village – based disaster warning volunteer, for community at risk	DDPM	Provincial government, district office, local administration organization, community
	5.3 Prepare citizen's emergency preparedness guidebook	MOE, DDPM, DMR, NDWC, Provincial government, district office, local administration organization agencies concerned	DOLA
6. Put in place an action plan and conduct tsunami drill on regular basis.	6.1 Formulate evacuation plan, rescue plan etc., and conduct evacuation and rescue drills at least once a year.	Provincial government, district office, local administration organization, other concerned agencies	DDPM, TMD, NDWC, DOLA concerned agencies

Table 2.1 : 1st Strategic Issue : Disaster Prevention and Impact Reduction

Strategy	Key Activity	Key Agency	Supporting Agency
	6.2 Organize disaster simulation exercise to test response and relief joint efforts.	DDPM, NDWC, concerned agencies	RTA, RTN, RTAF, civil defence volunteer, charitable organization volunteer, concerned agencies
	6.3 Put in place auxiliary communication service plan in case of emergency.	NBTC, MOICT	Concerned agencies
7. Ensure public health and medical preparedness	7.1 Medical facilities are well – prepared to provided public health and medical services. Ensure full availability of blood, medicine, medical supplies etc., as well as organizing specific training for medical staffs and participating in the simulation drill.	MOH, Thai Red Cross Society, affiliated agencies	Provincial government, government university hospital, private hospital, concerned agencies
	7.2 Formulate emergency medical services plan for medical facilities.	MOH	Government university hospital, private hospital, provincial government, local administration organization
	7.3 Enhance and strengthen the capacities of emergency medical services units and Narenthorn Center at local level.	MOH, NIEMS	Government university hospital, private hospital, provincial government, local administration organization
	7.4 Identify focal point agency to coordinate public health and medical efforts.	MOH	-
	7.5 Improve "Public Health and Medical Preparedness Plan 2000"	MOH	-

Table 2.1 : 1st Strategic Issue : Disaster Prevention and Impact Reduction

Strategy	Key Activity	Key Agency	Supporting Agency
8. Create disaster resources databases to facilitate and ensure availability of personnel, equipments and supplies. Mobilize these resources to take part in disaster simulation drill to test their state of readiness. Initiate the system for receiving in – country and foreign assistance.	8.1 Create database on disaster related manpower and equipments in possession of both public and private agencies with great potentials such as military units and voluntary organizations.	DDPM, DPMPO, DPMOC, MOFA, Thai Red Cross Society	MOD, DOLA, provincial government, district office, local administration organization, concerned agencies
	8.2 Initiate the system for receiving in - country and foreign assistance.	DDPM, DPMPO, DPMOC, MOFA, Thai Red Cross Society	MOFA, concerned agencies
	8.3 Improve the efficiency of internet – based information system to enable "Disaster Victim Information Center" to provide and receive data in relation to search and rescue operations.	DDPM, MOICT	DOLA, agencies concerned
	8.4 Arrange for preparation of search and rescue equipments and test their functionality by disaster simulation drill.	DPMOC, DPMPO, concerned agencies	Foundation, private enterprise, concerned agencies, MOD, provincial government, district office, local administration organization, DOLA
	8.5 Develop/invent search and rescue tools.	DDPM, concerned agencies	-
9. Enhance skills and expertise of state officials and volunteers engaged in disaster operations.	9.1 Initiate incident command system	DDPM	Concerned agencies
	9.2 Provide training on incident command to the executive officers of local governments at all levels	DDPM	IAD (MOD)

Table 2.1 : 1st Strategic Issue : Disaster Prevention and Impact Reduction

Strategy	Key Activity	Key Agency	Supporting Agency
	9.3 Strengthen capacity of Disaster Prevention and Mitigation Operations Centers, and develop capacity of mobile response teams as leading operational response group.	DDPM	-
	9.4 Strengthen Disaster Prevention and Mitigation Academy.	DDPM	-
	9.5 Increase number of training instructors specialized in different aspects of disaster management.	DDPM	ADPC
	9.6 Establish key training institute to provide search and rescue training services to personnel concerned.	DDPM	Concerned agencies
	9.7 Organize the training for civil defence volunteer, and volunteers from charitable organization, member of organized volunteer group etc. to enhance their performance skills and increase their expertise.	DDPM	Civil defence volunteer center, charitable, foundation, private enterprise, voluntary organization
	9.8 Organize "One Tambon One Search and Rescue Team" for each and individual tambon.*	DDPM	Provincial government, district office, local administration organizations

* Tambon : Administration unit next level below district

Table 2.2 : 2nd Strategic Issue : Disaster Preparedness

Strategy	Key Activity	Key Agency	Supporting Agency
1. All agencies concerned arrange for full availability and serviceability of personnel, heavy equipments search and rescue devices as well as preparing basic necessities for survival.	1.1 Set up emergency operations center at provincial level and deploy requisite manpower for the tasks assigned at the center.	Provincial government, district office, local administration organization	DDPM, concerned agencies
	1.2 Keep a close watch, monitor and assess the situation.	Provincial government, district office, local administration organization	DDPM, concerned agencies
2. Encourage close interagency coordination and cooperation to keep close watch and monitor disaster situation and to share related information.	2.1 Coordinate with disaster partnership networks for a close watch on disaster situation and for ensuring availability and serviceability of their personnel and equipments.	DDPM	Concerned agencies
	2.2 Notify search and rescue units to get ready to be on high alert.	DDPM	Concerned agencies
	2.3 Notify agencies concerned to prepare and provide the vehicles to help in evacuation efforts.	DDPM, DPMOC, DMCRAFH, RTP, concerned agencies	Concerned agencies
3. Ensure that auxiliary communication equipments, power supply system and mobile emergency illumination device are all operable properly and at hand for emergencies.	3.1 Ensure a constant readiness of response units, telecommunication mobile units and mobile emergency illumination devices.	MOICT, DMCRAFH, RTP, DDPM, provincial government, district office, local administration organization	Concerned agencies

Table 2.2 : 2nd Strategic Issue : Disaster Preparedness

Strategy	Key Activity	Key Agency	Supporting Agency
	3.2 Support and promote civil sector communications network.	MOICT	Volunteer, general public
	3.3 Prepare to enhance the capacities of auxiliary communication system for emergency situation.	MOICT	Concerned agencies
	3.4 Issue directive to install auxiliary energy and electric power systems in the affected areas.	MOE, PEA	Concerned agencies
4. In a stepwise manner, disseminate awareness messages to keep the people well – informed of the impending tsunami	4.1 Notify to warn the people after the mega earthquake had occurred, and clearly identify the areas at risk the need to keep a close watch (on both Andaman Sea and Gulf of Thailand's coasts).	TMD, NDWC, MCOT	DDPM, DPR, MOICT, all television broadcasting stations
	4.2 Arrange for the use of designated safe areas and keeping evacuation routes clear.	Provincial government, district office, local administration organization	-
	4.3 Through warning tower and broadcasting media, transmit warning signals and information to the public to evacuate in the event of impending tsunami.	TMD, NDWC	DDPM, DPR, MCOT, MCICT, television broadcasting stations
5. Warn local residents and tourists on the beach and in tsunami risk areas about imminent tsunami.	5.1 Drive around to make announcement over the warning speaker system of incoming tsunami threat.	Provincial government, district office, local administration organization, community	Civil defence volunteer, charitable foundation, voluntary citizens

Table 2.2 : 2nd Strategic Issue : Disaster Preparedness

Strategy	Key Activity	Key Agency	Supporting Agency
	5.2 Ensure the presence of officials concerned to conduct an evacuation from potentially affected areas to designated safe areas.	Provincial government, district office, local administration organization community	Civil defence volunteer, charitable foundation, voluntary citizen
	5.3 Bring the situation under control to avoid public panic.	Provincial government, district office, local administration organization community	Civil defence volunteer, charitable organization, voluntary citizen
6. Use baseline data in existing database to check all aspects of tsunami preparedness.	6.1 Check the stock of medicines, medical supplies, blood etc., and ensure their full availability as well as arranging for their secure storage.	MOI, Thai Red Cross Society	University hospital, private hospital, provincial government, local administration organization clinic center
	6.2 Check the stock of basic necessities for survival and procure to ensure their full availability, as well as arranging for the storage of procured basic necessities for survival and donated items.	Provincial government, district officer, local administration organization, Thai Red Cross Society, DDMOP	Charitable foundation, Private sector organization, concerned agencies
	6.3 Arrange for transportation of basic necessities for survival and donated items from government agencies at central level.	DDPM, Thai Red Cross Society	Military unit, Thai International Airways, State Railways of Thailand, foundation, private sector organization

Table 2.2 : 2nd Strategic Issue : Disaster Preparedness

Strategy	Key Activity	Key Agency	Supporting Agency
	6.4 Assemble and mobilize trained volunteers which include medical volunteers, search and rescue volunteers etc.	DDPM, MOICT, Thai Red Cross Society, NIEMS, Charitable foundation, provincial government, district office, local administration organization	Charitable foundation private sector organization, charitable foundation, concerned agencies
	6.5 Ensure the emergency preparedness for educational facilities.	MOE	Concerned agencies
	6.6 Prepare personnel for interpreting and volunteer functions.	MOE	Concerned agencies

Table 2.3 : 3rd Strategic Issue : Disaster Emergency Management

Strategy	Key Activity	Key Agency	Supporting Agency
1. Set up operations center to serve as focal point for conducting incident command and for ensuring effective multi – agency coordination. In this context, an adoption of Incident Command System and setting of rule of engagement are required.	1.1 Set up "Emergency Operations Center" at national level. The Prime Minister or the Deputy Prime Minister assigned by the Prime Minister is the Director of the Center.	NSCT	DDPM
	1.2 Establish "National Ad – hoc Center" in the affected areas. Director of this center is appointed by the Prime Minister.	DDPM, concerned agencies	Concerned agencies
	1.3 Establish " Disaster Relief and Assistance Center" at provincial, district and local administration organization levels in disaster affected areas.	MOI, DDPM	-
	1.4 Issue disaster declaration for tsunami affected areas.	Provincial government	-
	1.5 Conduct damage assessment survey.	DDPM	Provincial government, district office, local administration organization
	1.6 Conduct needs assessment survey.	DDPM	Provincial government, district office, local administration organization

Table 2.3 : 3rd Strategic Issue : Disaster Emergency Management

Strategy	Key Activity	Key Agency	Supporting Agency
2. Review data already stored in database on disaster resources and coordinate with high capacity disaster management partnership networks such as military units, charitable foundations to assist in search and rescue operations.	2.1 Make use of data on disaster resources of supporting agencies already stored in database.	DDPM	MOD, charitable foundation
	2.2 Coordinate with external agencies such as various military units to solicit support and assistance in disaster emergency response.	DDPM, concerned agencies	-
	2.3 Initiate inter – province mutual aid or twin – province agreement to facilitate the reciprocal assistance in the event of disaster emergency.	DOPA	Concerned agencies
	2.4 Upon arrival at the incident scene, all the volunteers must report to the director of Emergency Operations Center to receive a task assignment.	DDPM	Concerned agencies
3. Synergize the efforts of highly trained search and rescue teams drawn from public and private organizations and citizen corps for speedy operations.	3.1 Issue directive to dispatch community search and rescue team (One Tambon One Search and Rescue Team : OTOS) and other high capacity search and rescue teams to carry out rescue operations.	DDPM, DMCRFH, concerned agencies	Tambon administration organization

Table 2.3 : 3rd Strategic Issue : Disaster Emergency Management

Strategy	Key Activity	Key Agency	Supporting Agency
	3.2 Issue directive to deploy equipments which include mobile emergency illumination device, loader tractors, bulldozers, forklift trucks, cutting tools, rescue vehicles, pick – up trucks etc., for use in search and rescue operations.	DDPM, DMCRFH, concerned agencies	Charitable foundation
4. Ensure that an efficient communication system is in place.	4.1 Issue directive to activate the reserve capacity of communication system in the wake of disaster.	NBTC, MOICT, OPSMOI	Concerned agencies
	4.2 Deploy mobile communication vehicle.	OPSMOI, DMCRAFH, RTP	Concerned agencies
	4.3 Divert the influx of communication signals to other channels unaffected by disaster.	NBTC, MOICT	Concerned agencies
	4.4 Make full use of mobile communication system.	OPSMOI, DMCRAFH, RTP, MOICT, concerned agencies	Charitable foundation
5. Bring the situation under control and provide search and rescue services and relief assistance. During the first 24 hours following tsunami calamity, search and rescue operations	5.1 Synergize the efforts of search and rescue personnel drawn from various organizations particularly from military units and charitable organizations located outside the affected areas to conduct search and recue operations. Establish regular search and rescue shifts or rotate personnel or a team as needed.	DDPM, MOD, DMCRAFH, RTP, MD, concerned agencies	Charitable foundation

Table 2.3 : 3rd Strategic Issue : Disaster Emergency Management

Strategy	Key Activity	Key Agency	Supporting Agency
and relief and assistance efforts focus on searching for survivors, providing medical treatment to injured persons, distributing basic survival necessities which include drinking water, ready – to eat foods, and clothings.	5.2 Mobilize a team of doctors, nurses and other health care staff from nearby local hospitals in areas unaffected by disaster and from central and other provincial levels hospitals to provide health care and medical services.	MOPH	University hospital, private hospital
	5.3 Conduct immediate repairs to transport routes, communication, electric power and water supply systems damaged by the disaster to facilitate the entry and job performance of disaster personnel.	DDPM, MOD, concerned agencies	-
	5.4 Set up mobile feeding units or mobile kitchen trucks to arrange and provide catering services to disaster affected people and the personnel on duty.	DDPM, provincial government, district office, local administration organization	-Charitable foundation
	5.5 Seal off disaster affected areas and forbid the entry of unauthorized persons.	RTP, DDPM, provincial government, district office, local administration organization	

Table 2.3 : 3rd Strategic Issue : Disaster Emergency Management

Strategy	Key Activity	Key Agency	Supporting Agency
6. Bring the situation under control and provide search and rescue services and relief assistance. During the first 24 – 48 hours following tsunami calamity, search and rescue operations and relief assistance efforts focus on searching for survivors and property, seeking for relatives of disaster victims, erecting temporary shelters, managing dead bodies, providing medical treatment, foods, drinking water, medicines, cooking utensils and information regarding current disaster situation.	6.1 Supply and dispatch disaster personnel and deliver medicine, blood and other medical supplies to disaster affected areas. Ensure the preparedness of medical facilities.	MOI, Thai Ted Cross Society, DDPM, concerned agencies	RTAF, MD, DLT, DCA
	6.2 Deliver the basic survival necessities which include foods, drinking water and clothings to temporary shelter sites.	DDPM, MOSDHS, concerned agencies	Thai Red Cross Society, RTAF, MD, DLT, DCA, charitable foundation
	6.3. Maintain peace and order at temporary shelter sites.	RTP	MOD, provincial government, local administration organization

Table 2.3 : 3rd Strategic Issue : Disaster Emergency Management

Strategy	Key Activity	Key Agency	Supporting Agency
	6.4 Conduct initial examination on dead bodies, collect and record the evidence, and preserve the evidence.	FSB (RTP)	CIFS (MOJ) military unit, charitable foundation, volunteer
	6.5 Collect dead bodies and transfer them to designated place.	FSB (RTP)	CIFS (MOJ) military unit, charitable foundation, volunteer
	6.6 Establish "Information Center for Disaster Victims Center" to provide a single and centralized source for the people to access information regarding injured or dead persons.	MOICT, DDPM	Provincial government, district office, local administration organization
7. Bring the situation under control and provide search and rescue services and relief assistance. During 48 - 72 hours following the tsunami calamity, search and rescue operations and relief assistance efforts focus on searching for survivors, providing medical treatment, managing dead bodies, providing basic survival necessities,	7.1 Arrange for cold storage to preserve dead bodies for identification and designate the storage place (such as temple).	FSB (RTP)	CIFS (MOJ), military unit, charitable foundation, volunteer

Table 2.3 : 3rd Strategic Issue : Disaster Emergency Management

Strategy	Key Activity	Key Agency	Supporting Agency
distributing cash compensation, searching for property, and providing information regarding provision of assistance.	7.2 Conduct preliminary autopsy, record all data concerning the deceased and preserve the evidence for further identification.	FSB (RTP)	CIFS (MOJ), military unit, charitable foundation, volunteer
	7.3 Recruit the volunteers capable of speaking any foreign language to act as interpreters at information center and at coordination center.	TAT, MOFA, higher education establishment	DDPM
	7.4 Dispatch mobile social security services unit.	SSO	Concerned agencies

Table 2.4 : 4th Strategic Issue : Post – Disaster Management

Strategy	Key Activity	Key Agency	Supporting Agency
1. Ensure rapid, thorough and unduplicated provision of relief assistance.	1.1 Check the existing data concerning people affected by the disaster and damaged property to ensure that the compensation is paid according to the facts.	MOICT, DDPM, DOPA	Concerned agencies
	1.2 Issue relevant documents and written evidence to disaster affected Thai nationals and foreigners.	DDPM, DOPA, MOFA	Provincial government, district office, tambon administration organization, chief of tambon, village headman
	1.3 Set up "Public Relations Center".	FRD	DDPM
	1.4 Report relevant news and conduct press release.	NSCT, DDPM, PRD	Mass media
	1.5 Repatriate disaster affected persons to their respective domicile.	MOT, MOSDHS, MOFA, RTAF	MOD, concerned agencies
	1.6 Conduct logistics management	DDPM, concerned agencies	MOD, MOT
	1.7 Arrange for the preparedness of Ranong Port as entry point for international assistance.	Ranong Port	Concerned agency
2. Coordinate with agencies or organizations concerned on provision of relief assistance to ensure their concerted efforts. In addition, the collection of data concerning relief efforts is required.	2.1 Put in place the control system for receiving and spending donated money/fund to ensure that they have been done properly and according to the donors' means and volition.	PMO, DDPM, MOF, Thai Red Cross Society, concerned agencies	Charitable foundation, private organization

Table 2.4 : 4th Strategic Issue : Post – Disaster Management

Strategy	Key Activity	Key Agency	Supporting Agency
	2.2 Coordinate request for international assistance.	MOFA, DDPM, Thai Red Cross Society, concerned agencies	Charitable foundation, private organization.
	2.3 Coordinate request for GIS and MIS data from all agencies concerned.	DDPM, MOICT, GISTDA, concerned agencies	Concerned agencies
2. Conduct accurate rapid assessment survey to facilitate and speed up the approval of budget and relief programmes and to ensure meeting affected people requirements.	3.1 Create tsunami damage map.	Provincial government, district officer, local administration organization	DDPM
	3.2 Conduct tsunami damage assessment.	Provincial government, district office, local administration organization	DDPM
	3.3 Provide compensation and subvention to people affected by tsunami disaster.	DDPM, provincial government, district office, local administration organization, concerned agencies	-
4. Provide assistance services to affected people to restore their living condition and livelihoods as well as rehabilitating devastated areas to normalcy as soon as possible.	4.1 Coordinate the provision of assistance services of all agencies to ensure its consistency and thorough coverage.	PMO, DDPM, MOF, Thai Red Cross Society, concerned agencies	Charitable foundation, Private organization

Table 2.4 : 4th Strategic Issue : Post – Disaster Management

Strategy	Key Activity	Key Agency	Supporting Agency
	4.2 Arrange for treatment to injured persons to fully recover.	MOPH, Thai Red Cross Society	Provincial government, district office, local administration organization
	4.3 Monitor ground and underground water sources to ensure long – term availability of water for consumption.	DWR, RID, DGR, PWA	Concerned agencies
	4.4 Conduct inspections of tsunami – damaged buildings and other structures.	PWTCP	Provincial government, district office, local administration organization
	4.5 Arrange for temporary and permanent housing.	MOSDHS	NHA, concerned agencies
	4.6 Initiate specific programme to restore mental well – being of affected people..	DMH, MDSDHS, concerned agencies	-
	4.7 Organize vocational training and provide job opportunities.	MOSDHS, DOE, DSD, concerned agencies	Provincial government, district office, local administration organization, educational establishment, vocational training institute
	4.8 Ensure rehabilitation programmes for large – scale and small – scale entrepreneurs to rebuild their business.	MOF, DDPM, concerned agencies	Provincial government, district office, local administration organization, MOAC, financial institute
	4.9 Arrange schooling for and provide scholarship to the children of affected people.	MOE	-

Table 2.4 : 4th Strategic Issue : Post – Disaster Management

Strategy	Key Activity	Key Agency	Supporting Agency
	4.10 Take care of orphans, students, disabled persons and elders affected by tsunami disaster	MOSDHS, MOE	-
	4.11 Remain ever alert for prevention of epidemic and take preventive steps.	DDC, Thai Red Cross Society	University hospital, private hospital, provincial government, district office, local administration organization
	4.12 Repair and restore tsunami – hit government office buildings, educational facilities and public utilities to resume their normal functions.	Provincial government, district office, local administration organization, DDPM, MOD, MOPH, MOE, PWA, PEA, EGAT, MD, MOICT, AOT, TOT, CAT, DOH, DRR, SRT, PAT, RID	Concerned agencies
	4.13 Conduct debris removal operations.	Provincial government, district office, local administration organization, concerned agencies	MOD, DDPM
	4.14 Rehabilitate devastated areas, water channels, and conduct coastal restoration landscape improvement.	Provincial government, district office, local administration organization, concerned agencies	MOD, DDPM
	4.15 Rehabilitate and restore tourist attraction sites.	Provincial government, district office, local administration organization, MD, TAT	-

Table 2.4 : 4th Strategic Issue : Post – Disaster Management

Strategy	Key Activity	Key Agency	Supporting Agency
	4.16 Survey and conduct case studies on and analysis of tsunami effects on various aspects of environment.	MONRE	Educational establishment
	4.17 Solve pollution and environmental problems concerning : 4.17.1 Forestry and ecosystem 4.17.2 Agricultural area 4.17.3 Land resources 4.17.4 Coastal resources, islands, coral and aquatic animals 7.17.5 Ground and underground water sources 7.17.6 Adoption of biotechnology for environmental rehabilitation	 NPWLF MOAC LDD MCR PCD FPR RID DWR LDD	 -
	4.18 Provide assistance in accordance with social security law. 4.18.1 Conduct validation check of data relating to insured persons affected by tsunami disaster. 4.18.2 Extend or defer deadline for the enterprises' contribution fund payment.	 SSO SSO	 Concerned agencies Concerned agencies

Table 2.4 : 4th Strategic Issue : Post – Disaster Management

Strategy	Key Activity	Key Agency	Supporting Agency
	4.18.3 Protect the rights of affected workers' compensation benefit claims according to labour law	LPW	Concerned agencies
	4.18.4 Provide advices and information regarding labour rights.	SSO	Concerned agency
	4.19 Provide rehabilitation assistance to animals affected by tsunami disaster.	NPWLF	Local and international foundation for animal welfare.
	4.19.1 Wild animals	Provincial government	
	4.19.2 Domesticated animals	DOL	Provincial government
	4.20 Designate lead agency to coordinate and manage dead bodies after disaster which include preservation, conducting identification of dead bodies and releasing identified dead bodies to relatives.	FSB (RTP)	MOPH, concerned agencies
	4.21 Conduct identification of dead bodies and transfer the identified ones to keep at Bang Maruan Cemetery for further proceedings.	FSB (RTP)	MOPH, Charitable foundation, concerned agencies
	4.22 Conduct monitoring and evaluation.	OPM, DDPM, NESDB	
5. Make good use of lessons learned and findings gained from case study.	5.1 Identify the root causes of problems surrounding tsunami disaster management and conduct an analysis to seek appropriate solutions.	DDPM, concerned agencies	

CHAPTER 3

GUIDELINE FOR TRANSLATING PLAN INTO CONCRETE PRACTICE, MECHANISM, AND MONITORING AND EVALOUATION

1. TRANSLATION OF PLAN INTO CONCRETE PRACTICE

The strong push at national level to elevate tsunami management strategies as national agenda as well as including them in National Economic and Social Development Plan are necessary prerequisites, for concrete implementation and result – based monitoring and evaluation of Master Plan on Tsunami Disaster Prevention and Mitigation. The reason behind this elevation lies in the facts that tsunami disaster is capable of causing widespread devastation leading to very large number of affected people and tremendous economic loss. As a consequence, it is indispensable to initiate coordination procedure for facilitating multi – agency efforts to deal with tsunami disaster both at national and local levels.

However, several ministerial, departmental and local level agencies are engaged in putting strategies and key activities included in the above-mentioned master plan into action. In doing so, local level agencies are required to adjust strategies and key activities to local context as deem appropriate. In addition, local entities are required to analyze and prioritize the facing problems within the locality as well as taking the urgency of such problems into consideration prior to activating the plan. The followings are operating procedure to be taken by all agencies concerned.

2. PROCEDURE FOR CONVERSION OF MASTER PLAN TO ACTION PLAN

2.1 Clarify Understanding of Master Plan and Formulate Action Plan : State agencies concerned at each level need to ensure their clear understanding of Master Plan on Tsunami Disaster Prevention and Mitigation, and prepare to create action plan which is compatible with the Master Plan.

1) National Level : Concerned agencies which include Ministry of Interior, Ministry of Information and Communication Technology, Ministry of Public Health, Ministry of Natural Resources and Environment, Ministry of Education etc. are required to use this master plan as the framework for formulating their individual tsunami action plan and operating budget. Non – governmental organization and private organizations are as well required to translate this master plan into action.

2) Provincial Level : In a capacity of Provincial Incident Commander and pursuant to Disaster Prevention and Mitigation Act 2550 (2007), the provincial governor whose provincial coastal areas are at tsunami risk (Illustrated in table 3.1) is obliged to formulate and activate provincial tsunami action plan. In addition, provincial governor is obliged to perform the tasks specified in National Civil Defence Plan 2005. It is advised that all provinces where tsunami prone areas have been identified should mainstream the action plan for tsunami disaster prevention, mitigation and preparedness in Development Strategies of Provincial Custer.

3) Local Administration Organization Level : Chief excutive of provincial administration organization, tambon administration organization, and mayor of municipality including private sector and community are required to adopt and adjust the measures and operational guidelines to appropriate local context. In doing so, they are required to analyze and prioritize the facing problems within their locality as well as taking the urgency of such problems into consideration. Based on an analysis, local entities initiate concerned projects and activities and include them in their individual tsunami action plan.

Table 3.1 : List of provincial governments required to implement tsunami master plan

6 Andaman Coastal Provinces	**16 Gulf of Thailand Coastal Provinces**	
1. Ranong	1. Trat	9. Petchaburi
2. Phang Nga	2.Chanthaburi	10. Prachuab Kiri Khan
3. Phuket	3. Rayong	11. Chumphon
4. Krabi	4. Chon Buri	12. Surat Thani
5. Trang	5. Chachoengsao	13. Nakhon Si Thgammarat
6. Satun	6. Samut Prakan	14. Songkhla
	7. Samut Sakhon	15. Pattani
	8. Samut Songkhram	16. Narathiwat

2.2 Launch Initiative to Promote the Role and Strengthen Capacity of State Agency in Locality

1) Organize practice – oriented training for planning officials of Disaster Prevention and Mitigation Provincial Office, concerned government agencies in locality and local administration organization. This training aims at enabling the participants to interpret tsunami master plan into practice and to ensure their state of readiness to develop and analyze the projects.

2) Promote the role of Disaster Prevention and Mitigation Provincial Office in formulating the plan/project as well as preparing provincial/provincial cluster integrated budget request.

3) Allocate budget to support Disaster Prevention and Mitigation Provincial Office and other collaborating agencies in translating the Master Plan into concrete practice. In addition, it is advised to support the efforts of Disaster Prevention and Mitigation Provincial Office to mainstream tsunami disaster

prevention and mitigation related high priority projects into "Provincial Strategic Plan".

4) Set the minimum proportion of provincial and local administration organization budget for funding disaster prevention and mitigation activities. Prepare and report key performance indictors to the government and use as the reference in requesting for provincial and local administration organization budget.

2.3 Prospective Role of Ministry of Interior in Moving Forward with the Master Plan and Conducting Performance Monitoring and Evaluation

Through Department of Disaster Prevention and Mitigation, Ministry of Interior has carried out the following activities to ensure effective translation of Master Plan on Tsunami Disaster Prevention and Mitigation into concrete practice.

1) Help support the efforts of all sectors concerned toward fulfilling the Master Plan's objectives by enhancing and strengthening their capacity as well as preparing Master Plan Implementation Manual to facilitate the integrated Master Plan implementation efforts.

2) Disseminate tsunami related information to general public and develop appropriate mechanisms to promote opportunities for public participation in disaster management.

3) Undertake case study on and evaluate the impact of government policy and Provincial/Provincial Cluster Development Strategic Plan on disaster management as a whole. Consequently, Department of Disaster Prevention and Mitigation and other agencies concerned can apply the results of the case study and evaluation as reference data and in translating the Master Plan into concrete action.

3. Mechanisms for Translating Master Plan into Action

Translation of Master Plan on Tsunami Disaster Prevention and Mitigation 2552 – 2556 (2009 -2013) into action requires multi – agency collaborative efforts and working relationships between staffs drawn form a variety of participatory agencies at national, regional, provincial and local administration organization levels.

Therefore, it is indispensable to designate ministerial and departmental level key agencies responsible for coordinating, encouraging and clarifying with all agencies concerned at all levels as well as promoting an involvement of general public in fulfilling the objectives identified in Master Plan on Tsunami Disaster Prevention and Mitigation within the next five years.

4. Monitoring and Evaluation

The followings are activities identified to be taken for conducting monitoring and evaluation of the results achieved from implementing the Master Plan.

1) Set up Evaluation Committee of which members comprise representatives from government agency, private sector organization and community member to participate in monitoring and evaluation. Members of this committee are representatives from following agencies.

- Governmental level agency
- Marine and coastal resource management faculty/department of higher educational establishment
- Budget Bureau/Ministry of Finance
- Ministry of Education
- Ministry of Information and Communication Technology
- Ministry of Public Health
- Office of the Prime Minister
- Ministry of Defence
- Ministry of Natural Resources and Environment
- Ministry of Social Development and Human Security
- Qualified member of National Disaster Prevention and Mitigation Committee
- Advisory Council concerned
- Commissioner on disaster management
- Related non – government organization
- Local administration organization
- Government agency concerned
- Director – General of Department of Disaster Prevention and Mitigation

2) Based on each target identified in the Master Plan, conduct the result – based monitoring and evaluation on the performance of all agencies responsible for implementing the Master Plan annually. When the implementation of the Master Plan reaches halfway, conduct an evaluation on performance and results by basing on overall targets.

3) Department of Disaster Prevention and Mitigation should collaborate with the Master Plan implementing agencies to establish database system for the useful purpose of monitoring and evaluation on the implementation of the Master Plan or should establish its own database for the same useful purpose. In addition, an evaluation is required for useful purpose of preparing report on progress in implementing the Master Plan, problems and recommendations to submit to National Disaster Prevention and Mitigation Committee.

CHAPTER 4

RECOMMENDATIONS DEMANDING IMMEDIATE ACTION

Based on the findings of this case study, the consultants have proposed recommendations requiring immediate action so as to develop and improve preparedness for tsunami disaster as follow :

1. Development and dissemination of knowledge on tsunami : It is essential to develop and widely disseminate knowledge on causes of a tsunami and characteristics of tsunami waves as well as including this knowledge in education curriculum. This practice aims to ensure that the general public will gain a clear understanding of the difference between tsunami and wind – driven or common waves, intensity and speed of tsunami waves, number of waves generated, and arrival time of each wave.

2. Producing hazard map of tsunami prone areas in each community, preparing drawings that show safe locations and evacuation routes, and putting up tsunami warning signals : Once being well – informed about related principle and practice together with being well familiar with the areas and advice from the officials, each community will be capable of undertaking the aforementioned activities itself . In addition, in some areas where detailed data on wave height is inadequate, it is essential to conduct additional analysis by providing additional sea floor and coastal area topography data, and to calculate tsunami run – up heights as well.

3. Taking into consideration the community – based tsunami prone area protection approach that ensures the compatibility with local context : Once the data related to tsunami risk and its intensity are in place, the communities at risk from tsunami will be able to make a decision on preventive measures application. The instances of this application include whether to construct tsunami – resistant dykes or wave barriers, or adoption of natural preventive measures such as mangrove reforestation, or to build tsunami – resistant houses, or to avoid construction in high risk areas.

4. Conducting tsunami – warning and evacuation drill on a regular basis : It is required that evacuation and rescue operations drills be conducted once annually to shed the light on how well participants and other resources will perform in the wake of disaster. It is advised to exercise a high degree of caution in activating tsunami warning signals, and unnecessary activation should be avoided. In this context, there are expert's remarks that tsunami warning signals should be activated only when a real event occurs.

5. Improving tsunami detection to ensure accurate forecasts and warnings and capable of providing accurate estimation of tsunami arrival time : This refers to the application of computer – based mathematical modeling which produces good results by preparing seafloor survey data and profiled and elevation of coastal areas which are detailed enough. In addition, multiple tsunami scenarios

calculation must be carried out to be used as tsunami scenario databases. In case of tsunami detection improvement, it is essential to deploy additional DART buoys and install additional real – time sea – level gauges to expand tsunami detection capable of detecting tsunami early enough to maximize the lead time of forecasts and warnings.

6. Improving public alert and warning notification method to ensure announcement clarity and disseminating information on an occurrence of strong earthquake that can cause tsunami to the public as early as possible. Consequently, general public will gain clear understanding of the situation and have adequate time (at least 2 hours) to respond to emergency situation properly and without panic. Having enough lead time, general public can flee the areas at risk to safe locations and are able to prepare themselves, stay alert and listen to official announce about tsunami situation.

7. Inspecting warning tower located in high – risk communities to ensure through tsunami siren sound coverage, and in case where tsunami siren cannot be heard, additional audio transmitters should be installed. In this regard, there's no used for additional warning towers construction, tsunami alerting device can be installed on rooftops of existing buildings. Such an installation should be carried out after checking to make sure that signal strength in those areas is very low, and these is no need to lay down a plan to construct a large number of tsunami warning towers.

8. Creating databases on population living in areas at risk from tsunami, equipments and manpower of volunteer network organizations : Database on population at risk is the major source of information concerning number of persons living in the area at risk and their personal data such as age, occupation, number of family members, number of households etc. which are useful for emergency preparedness arrangement in advance and for verification purpose after a disaster occurred. On the other hand, databases on manpower and on equipments are useful for ensuring their availability and serviceability in handling emergency situation.

9. Formulating emergency action plan for national, provincial and field operations centers.

10. Preparing operational manuals for each aspect of disaster management : Development of operational manual is essential for immediate application as guideline and reference for all stakeholders both in emergency situation and in conducting mock drills

11. Stringently enforcing and complying with Town and Country Planning Act : Strict enforcement and compliance with this act are required particularly in the areas at risk where evacuation procedure faces particular problems. Examples of these areas include Khao Lak area, Bang Niang Community in Phang Nga province and P. P. Island in Krabi province. In this regard, constructing of tsunami evacuation shelter and designation of additional evacuation routes (if needed) are required. Moreover, it is essential to restrict economic development in those areas and taking into consideration disaster safety aspect. The economic – growth oriented practices without any restrictions in those areas will cause

difficulties and obstruction to evacuation process and eventually lead to tremendous losses.

12. Accelerating an initiation of safety mind and understanding the nature to avoid the impact of hazard. It is essential to promote and initiate safety mind and culture among all Thai citizen and learn to understand nature. Many times, there are precursory phenomena that may harald the forthcoming disaster, have been obviously witnessed. For example, the precursory phenomena of earthquake/tsunami may include noticing a large number of dead fishes floating in the sea or a school of deep sea fishes swimming closer to the shore, erratic and unusual behavior in animals, a swarm of snakes fleeing their dens, unusual form of aggressive behavior of pigs, rats are stupefied and can be easily caught, swarm of bees alarmingly leaving a hive etc.

ANNEX A

LIST OF AREAS AT RISK FROM TSUNAMI ALONG ANDAMAN SEA COAST

Table A – 1 Name list of 509 Tsunami Risk Villages/Locations in 102 Tambons, 27 Districts of 6 Provinces on Andaman Sea Coast.

No.	Location/village	Tambon	District	Province	Latitude (X) (East)	Longi-tude (Y) (North)	Wave Heigh	Intensity	Remark
113. Tsunami Risk Villages/Locations in 19 Tambons, 5 District of Krabi Province									
1.	Hua Hin Pier	Koh Klang	Koh Lanta	Krabi	99.0353	7.7142	2.98	2	
2.	Ban Pak Klong	Koh Klang	Koh Lanta	Krabi	99.0214	7.7667	2.79	2	
3.	Ban Ra Pu	Koh Klang	Koh Lanta	Krabi	99.0896	7.7181	2.78	2	-
4.	Ban Klong Ya Nat	Koh Klang	Koh Lanta	Krabi	99.0634	7.7169	1.99	1	-
5.	Ban Pak Klong	Koh Klang	Koh Lanta	Krabi	99.0227	7.7598	2.18	2	-
6.	Ban Klong Yo. Nat	Koh Klang	Koh Lanta	Krabi	99.0926	7.7398	2.06	2	-
7.	Ban Liki	Koh Klang	Koh Lanta	Krabi	99.0687	7.7375	2.06	2	-
8.	Ban Na Tung Klong, Ban Ta Klong, Ban Cho	Koh Klang	Koh Lanta	Krabi	99.0358	7.7775	1.98	1	-
9.	Ban Ao Thong Larng	Koh Klang	Koh Lanta	Krabi	99.0321	7.8143	1.49	1	-
10.	Ban Hua Hin	Koh Klang	Koh Lanta	Krabi	99.0953	7.6977	2.29	2	-
11.	Ban Tha Klong	Koh Klang	Koh Lanta	Krabi	99.0287	7.7758	2.05	2	-
12.	Ban Khun Samut	Koh Klang	Koh Lanta	Krabi	99.0453	7.7221	2.12	2	
13.	Koh Lanta Noi	Koh Lanta Noi	Koh Lanta	Krabi	99.0397	7.6694	2.29	2	
14.	Ban Lang Sot	Koh Lanta Noi	Koh Lanta	Krabi	99.0692	7.6769	1.92	1	-
15.	Ban Klong Mark	Koh Lanta Noi	Koh Lanta	Krabi	99.0882	7.6779	2.65	2	-
16.	Ban Toong	Koh Lanta Noi	Koh Lanta	Krabi	99.1129	7.6233	1.01	1	-
17.	Ban Lo Yai	Koh Lanta Noi	Koh Lanta	Krabi	99.1179	7.6094	1.05	1	-
18.	Ban Klong Tanote	Koh Lanta Noi	Koh Lanta	Krabi	99.0991	7.6536	0.57	1	-
19.	Ban Ton Li Bong	Koh Lanta Noi	Koh Lanta	Krabi	99.1125	7.6175	1.01	1	-
20.	Tanote Cape	Koh Lanta Yai	Koh Lanta	Krabi	99.0983	7.4689	1.78	1	
21.	Kan Tiang Bay	Koh Lanta Yai	Koh Lanta	Krabi	99.07\47	7.4944	1.37	1	
22.	Klong Chag Bay	Koh Lanta Yai	Koh Lanta	Krabi	99.0825	7.4856	1.37	1	
23.	Mai Pai Bay	Koh Lanta Yai	Koh Lanta	Krabi	99.0886	7.74803	1.78	1	

No.	Location/village	Tambon	District	Province	Latitude (X) (East)	Longi-tude (Y) (North)	Wave Heigh	Intensity	Remark
113. Tsunami Risk Villages/Locations in 19 Tambons, 5 District of Krabi Province									
24.	Ban Hua Laem	Koh Lanta Yai	Koh Lanta						-
25.	Ban Sri Raya, Ban Tung	Koh Lanta Yai	Koh Lanta						-
26.	Ban Ja Lee	Koh Lanta Yai							-
27.	Ban Koh Po	Koh Lanta Yai							-
28.	Ban Klong Hin	Koh Lanta Yai							-
29.	Ban Klong Nin	Koh Lanta Yai							
30.	Ban Sanga Oo	Koh Lanta Yai							
31.	Ban Khlong Tob	Koh Lanta Yai							
32.	Ban Khlong Yang	Khlong Yang							
33.	Ban Klang, Ban Khok Yoong	Khlong Yang							
34.	Ban Tai, Ban Thai	Khlong Yang							
35.	Ban Lang Sod	Khlong Yang							
36.	Ban Tha Khuan	Khlong Yang							
37.	Kor Kwang Cape								
38.		Khlong Yang							
39.		Khlong Yang							
40.									

Table A - 1 : Name List of 509 Tsunami Risk villages/Locations in 102 Tambons, 27 Districts of 26 Provinces on Andaman Sea Coast

No.	Location/village	Tambon	District	Province	Latitude (x) (East)	Longitude (y) (North)	Wave Height (เมตร)	Inten-sity	Remark
จังหวัดกระบี่ พื้นที่เสี่ยงภัย 113 แห่ง 19 ตำบล 5 อำเภอ									
1	Hua Hin Pier	Koh Klang	Koh Lanta	Krabi	99.0353	7.7142	2.98	2	
2	Ban Pak Klong	Koh Klang	Koh Lanta	Krabi	99.0214	7.7667	2.79	2	
3	Ban Ra Pu	Koh Klang	Koh Lanta	Krabi	99.0896	7.7181	2.78	2	*
4	Ban Ra Mard	Koh Klang	Koh Lanta	Krabi	99.0634	7.7169	1.99	1	*
5	Ban Pak Klong	Koh Klang	Koh Lanta	Krabi	99.0227	7.7598	2.18	2	*
6	Ban Klong Ya Nat	Koh Klang	Koh Lanta	Krabi	99.0926	7.7398	2.06	2	*
7	Ban Liki	Koh Klang	Koh Lanta	Krabi	99.0687	7.7375	2.06	2	*
8	Ban Na Tung Klang, Ban Ta	Koh Klang	Koh Lanta	Krabi	99.0358	7.7775	1.98	1	*
	Klong, Ban Cho								
9	Ban Ao Thong Larng	Koh Klang	Koh Lanta	Krabi	99.0321	7.8143	1.49	1	*
10	Ban Hua Hin	Koh Klang	Koh Lanta	Krabi	99.0953	7.6977	2.29	2	*
11	Ban Tha Klong	Koh Klang	Koh Lanta	Krabi	99.0287	7.7758	2.05	2	*
12	Ban Khun Samut	Koh Klang	Koh Lanta	Krabi	99.0453	7.7221	2.12	2	
13	Koh Lanta Noi	Koh Lan ta Noi	Koh Lanta	Krabi	99.0397	7.6694	2.29	2	
14	Ban Lang Sot	Koh Lan ta Noi	Koh Lanta	Krabi	99.0692	7.6769	1.92	1	*
15	Ban Klong Mark	Koh Lan ta Noi	Koh Lanta	Krabi	99.0882	7.6779	2.65	2	*
16	Ban Toong	Koh Lan ta Noi	Koh Lanta	Krabi	99.1129	7.6233	1.01	1	*
17	Ban Lo Yai	Koh Lan ta Noi	Koh Lanta	Krabi	99.1179	7.6094	1.05	1	*
18	Ban Klong Tanote	Koh Lan ta Noi	Koh Lanta	Krabi	99.0991	7.6536	0.57	1	*
19	Ban Ton Li Bong	Koh Lan ta Noi	Koh Lanta	Krabi	99.1125	7.6175	1.01	1	*
20	Tanote Cape	Koh Lanta Yai	Koh Lanta	Krabi	99.0983	7.4689	1.78	1	
21	Kan Tiang Bay	Koh Lanta Yai	Koh Lanta	Krabi	99.0747	7.4944	1.37	1	
22	Klong Chag Bay	Koh Lanta Yai	Koh Lanta	Krabi	99.0825	7.4856	1.37	1	
23	Mai Pai Bay	Koh Lanta Yai	Koh Lanta	Krabi	99.0886	7.4803	1.78	1	
24	Ban Hua Laem	Koh Lanta Yai	Koh Lanta	Krabi	99.0913	7.5257	4.20	2	*
25	Ban Sri Raya, Ban Tung	Koh Lanta Yai	Koh Lanta	Krabi	99.0855	7.5279	4.54	2	*
26	Ban Ja Lee	Koh Lanta Yai	Koh Lanta	Krabi	99.0698	7.5595	4.20	2	
27	Ban Koh Po	Koh Lanta Yai	Koh Lanta	Krabi	99.1229	7.5401	1.23	1	*
28	Ban Klong Hin	Koh Lanta Yai	Koh Lanta	Krabi	99.0868	7.4863	3.81	2	*
29	Ban Klong Nin	Koh Lanta Yai	Koh Lanta	Krabi	99.0538	7.5434	3.55	2	*
30	Ban Sanga Oo	Koh Lanta Yai	Koh Lanta	Krabi	99.1087	7.4862	3.86	2	*
31	Bank Khlong Tob	Koh Lanta Yai	Koh Lanta	Krabi	99.0433	7.5577	3.71	2	*
32	Ban Khlong Yang	Khlong Yang	Koh Lanta	Krabi	99.1201	7.8063	1.51	1	*
33	Ban Klang, Ban Khok Yoong	Khlong Yang	Koh Lanta	Krabi	99.1163	7.7895	1.59	1	*
34	Ban Tai, Ban Thai	Khlong Yang	Koh Lanta	Krabi	99.0733	7.8200	1.63	1	*
35	Ban Lang Sod	Khlong Yang	Koh Lanta	Krabi	99.0624	7.8473	0.30	1	
36	Ban Tha Khuan	Khlong Yang	Koh Lanta	Krabi	99.0526	7.8256	0.31	1	
37	Kor Kwang Cape	Sala Dan	Koh Lanta	Krabi	99.0267	7.6403	3.55	2	
38	Khlong Dao Bay	Sala Dan	Koh Lanta	Krabi	99.0303	7.6308	3.55	2	
39	Phra Ae Bay	Sala Dan	Koh Lanta	Krabi	99.0319	7.6078	1.77	1	
40	Ban Sala Dan	Sala Dan	Koh Lanta	Krabi	99.0362	7.6483	3.57	2	*
41	Ban Phra Ae, Ban Khlong Khong	Sala Dan	Koh Lanta	Krabi	99.0331	7.5895	3.19	2	*
42	Ban To Bara, Ban Khlong Khong	Sala Dan	Koh Lanta	Krabi	99.0390	7.6143	4.00	2	*
43	Ban Thung Yi Pheng, Ban Thung	Sala Dan	Koh Lanta	Krabi	99.0656	7.6021	3.78	2	*
	San								
44	Ban Lo Du Yong	Sala Dan	Koh Lanta	Krabi	99.0461	7.6354	4.17	2	*
45	Ban Khlong Phool	Klong Phol	Khlong Tom	Krabi	99.1885	7.8142	0.46	1	*
46	Ban Moosa, Ban To Moosa	Klong Phol	Khlong Tom	Krabi	99.1786	7.7318	0.41	1	*
47	Ban Tha Maproa	Klong Phol	Khlong Tom	Krabi	99.1793	7.7229	0.42	1	*
48	Ban Khlong Khrai	Klong Phol	Khlong Tom	Krabi	99.1691	7.7930	0.39	1	
49	Ban Thungkrok	Klong Phol	Khlong Tom	Krabi	99.1684	7.7424	0.83	1	
50	Ban Thungyore, Ban Thunglor	Klong Phol	Khlong Tom	Krabi	99.2060	7.7634	0.96	1	*

Table A - 1 : Name List of 509 Tsunami Risk villages/Locations in 102 Tambons, 27 Districts of 26 Provinces on Andaman Sea Coast

No.	Location/village	Tambon	District	Province	Latitude (x) (East)	Longitude (y) (North)	Wave Height (เมตร)	Inten-sity	Remark
51	Ban Khlong Yire, Ban Yilae	Klong Phol	Khlong Tom	Krabi	99.1791	7.7561	0.41	1	*
52	Ban Khlong Khrai Tai	Klong Phol	Khlong Tom	Krabi	99.1697	7.7872	0.39	1	
53	Bor Mamuang Bay	Traikao	Khlong Tom	Krabi	99.2144	7.6783	0.65	1	
54	Ban Bormuang, Ban Bor Mamuang	Traikao	Khlong Tom	Krabi	99.2205	7.6807	1.01	1	
55	Ban Thung Samet	Huai Nam Khao	Khlong Tom	Krabi	99.1148	7.8310	1.50	1	*
56	Ban Nam Ron	Huai Nam Khao	Khlong Tom	Krabi	99.1077	7.8930	0.24	1	*
57	Ban Tha Pra doo	Huai Nam Khao	Khlong Tom	Krabi	99.0874	7.9079	0.24	1	*
58	Ban Khuantai	Huai Nam Khao	Khlong Tom	Krabi	99.1397	7.8076	0.19	1	
59	Ban Tha Len	Khao Thong	Muang Krabi	Krabi	98.7453	8.1656	1.46	1	
60	Ban Khaothong,Ban Khlongmuang	Khao Thong	Muang Krabi	Krabi	98.7601	8.1888	1.70	1	*
61	Ban Tha Len	Khao Thong	Muang Krabi	Krabi	98.7479	8.1711	1.43	1	*
62	Ban Tha Thonglarng	Khao Thong	Muang Krabi	Krabi	98.7607	8.1924	1.72	1	*
63	Ban Kho Khlang	Khlong Prasong	Muang Krabi	Krabi	98.9287	8.0524	0.70	1	*
64	Ban Khlong Prasosng	Khlong Prasong	Muang Krabi	Krabi	98.9238	8.0380	0.59	1	*
65	Ban Khlong Gam, Ban Saithai	Khlong Prasong	Muang Krabi	Krabi	98.9480	8.0253	0.64	1	*
66	Ban Bang Kanun	Khlong Prasong	Muang Krabi	Krabi	98.9356	8.0559	0.72	1	
67	Krabi Municipality	Sai Thai	Muang Krabi	Krabi	98.9111	8.0419	0.93	1	
68	Ban Suanprig, Ban Nongkok	Sai Thai	Muang Krabi	Krabi	98.8738	8.1115	1.35	1	*
69	Ban Nongkok, Ban Nongkok	Sai Thai	Muang Krabi	Krabi	98.8757	8.1068	1.62	1	*
	Khaeng								
70	Ban Khlong Jilad	Sai Thai	Muang Krabi	Krabi	98.8833	8.0863	1.59	1	*
71	Ban Ao Nam Moa	Sai Thai	Muang Krabi	Krabi	98.8590	8.0397	3.06	2	*
72	Ban Laempo	Sai Thai	Muang Krabi	Krabi	98.8773	8.0259	1.44	1	*
73	Ban Khlonghin	Sai Thai	Muang Krabi	Krabi	98.9111	8.0514	0.43	1	*
74	Ban Khlong Maung	Nong Taleh	Muang Krabi	Krabi	98.7564	8.0489	2.02	2	
75	Ban Khlong Muang	Nong Taleh	Muang Krabi	Krabi	98.7614	8.0536	2.02	2	*
76	Ban Koa Khlang, Ban Koa Kwang	Nong Taleh	Muang Krabi	Krabi	98.7499	8.0591	1.55	1	*
77	Ban Nairai	Nong Taleh	Muang Krabi	Krabi	98.8041	8.1204	1.87	1	*
78	Ban Dindaeng Noi	Nong Taleh	Muang Krabi	Krabi	98.7739	8.1138	1.95	1	*
79	Ban Ao Nang	Ao Nang	Muang Krabi	Krabi	98.7981	8.0456	0.98	1	
80	Phi Phi National Marine Park	Ao Nang	Muang Krabi	Krabi	98.7714	7.7478	5.50	3	
81	Ban Ao Nang	Ao Nang	Muang Krabi	Krabi	98.8328	8.0368	2.87	2	*
82	Ban Khlong Hang	Ao Nang	Muang Krabi	Krabi	98.8147	8.0476	2.67	2	*
83	Ban Nateen, Ban Na	Ao Nang	Muang Krabi	Krabi	98.8061	8.0566	3.05	2	*
84	Ban Thung	Ao Nang	Muang Krabi	Krabi	98.8175	8.0570	3.19	2	*
85	Ban Khlongson, Ban Khlong san	Ao Nang	Muang Krabi	Krabi	98.7886	8.0649	2.32	2	*
86	Ban Koh Phi Phi	Ao Nang	Muang Krabi	Krabi	98.7797	7.7350	5.50	3	*
87	Ban Laem Tong	Ao Nang	Muang Krabi	Krabi	98.7857	7.7351	5.50	3	*
88	Pou Island	Koh Sri Borya	Nua Khlong	Krabi	98.9658	7.8142	4.00	2	
89	Ban Khlong Toh, Ban Koh	Koh Sri Borya	Nua Khlong	Krabi	98.9878	7.9198	1.50	1	*
	NokKhom								
90	Ban Koh Pou	Koh Sri Borya	Nua Khlong	Krabi	98.9719	7.8463	4.07	2	*
91	Ban Koh Jam	Koh Sri Borya	Nua Khlong	Krabi	98.9883	7.7911	2.18	2	*
92	Ban Koh Hung	Koh Sri Borya	Nua Khlong	Krabi	99.0196	7.8719	0.97	1	*
93	Ban Tingrai	Koh Sri Borya	Nua Khlong	Krabi	98.9729	7.8222	4.13	2	*
94	Ban Koh Sri Borya	Koh Sri Borya	Nua Khlong	Krabi	98.9921	7.8942	1.61	1	*
95	Ban Lang Koh	Koh Sri Borya	Nua Khlong	Krabi	98.9758	7.8973	1.43	1	*
96	Ban Khlong Wailek	Khlong Kanarn	Nua Khlong	Krabi	99.0588	7.9612	0.32	1	
97	Ban Khlong Rad	Khlong Kanarn	Nua Khlong	Krabi	99.0465	7.9096	0.56	1	
98	Ban Laem Kruat	Khlong Kanarn	Nua Khlong	Krabi	99.0254	7.8959	0.45	1	
99	Ban Thayang	Khlong Kanarn	Nua Khlong	Krabi	99.0069	7.9449	0.86	1	
100	Ban Khlong Khamoa	Khlong Khamoa	Nua Khlong	Krabi	98.9856	8.0282	0.38	1	*
101	Ban Khuan Tor	Khlong Khamoa	Nua Khlong	Krabi	98.9709	8.0366	0.35	1	*

Table A - 1 : Name List of 509 Tsunami Risk villages/Locations in 102 Tambons, 27 Districts of 26 Provinces on Andaman Sea Coast

No.	Location/village	Tambon	District	Province	Latitude (x) (East)	Longitude (y) (North)	Wave Height (เมตร)	Inten-sity	Remark
102	Ban Khlong Rua	Taling Chan	Nua Khlong	Krabi	98.9656	7.9456	0.59	1	
103	Ban Pakra, Ban Hadyao Nua	Taling Chan	Nua Khlong	Krabi	98.9417	7.9908	1.33	1	
104	Ban Hadyao	Taling Chan	Nua Khlong	Krabi	98.9472	7.9744	1.07	1	
105	Ban Khlong Rua	Taling Chan	Nua Khlong	Krabi	98.9801	7.9455	0.99	1	*
106	Ban Khlong Yaun	Taling Chan	Nua Khlong	Krabi	98.9722	7.9823	0.92	1	*
107	Ban Hadyao	Taling Chan	Nua Khlong	Krabi	98.9478	7.9787	0.90	1	*
108	Ban Pakra, Ban Hadyao Nua	Taling Chan	Nua Khlong	Krabi	98.9453	7.9920	0.75	1	*
109	Ban Khlong Rad	Laem Sak	Ao Luk	Krabi	98.6824	8.3481	0.59	1	*
110	Ban Naisai, Ban Naisay	Laem Sak	Ao Luk	Krabi	98.6724	8.3153	0.66	1	*
111	Laem Sak Tambon Municipality	Laem Sak	Ao Luk	Krabi	98.6639	8.2897	0.59	1	
112	Ban Bargan	Ao Luk Noi	Ao Luk	Krabi	98.7217	8.3061	0.61	1	*
113	Ban Bargan	Ao Luk Noi	Ao Luk	Krabi	98.7072	8.2981	0.60	1	

Table A - 1 : Name List of 509 Tsunami Risk villages/Locations in 102 Tambons, 27 Districts of 26 Provinces on Andaman Sea Coast

No.	Location/village	Tambon	District	Province	Latitude (x) (East)	Longitude (y) (North)	Wave Height (เมตร)	Inten-sity	Remark
102 Tsunami Risk Villages/Locations in 21 Tambons, 5 Districts of Trang Province									
1	Ban Chumhet	Ta Se	Had Samran Sub-district	Trang	99.5536	7.2144	1.01	2	
2	Ban Ta Se	Ta Se	Had Samran Sub-district	Trang	99.5794	7.1553	0.69	1	
3	Ban Tung Plaew	Ta Se	Had Samran Sub-district	Trang	99.5703	7.1839	0.83	1	
4	Ban Na Thaleh	Ta Se	Had Samran Sub-district	Trang	99.5617	7.2006	1.08	1	
5	Ban Na Thaleh	Ta Se	Had Samran Sub-district	Trang	99.5718	7.1945	1.08	1	*
6	Ban N Chumhet	Ta Se	Had Samran Sub-district	Trang	99.5583	7.2124	1.01	1	*
7	Ban Thungplaew	Ta Se	Had Samran Sub-district	Trang	99.5768	7.1739	0.83	1	*
8	Tan Ta Se	Ta Se	Had Samran Sub-district	Trang	99.5869	7.1580	0.69	1	*
9	Ban Na Khuan	Ta Se	Had Samran Sub-district	Trang	99.5842	7.1857	1.08	1	
10	Ban Koh Og	Ta Se	Had Samran Sub-district	Trang	99.5853	7.1988	1.04	1	
11	YengStar Cape	Tha Kham	Had Samran Sub-district	Trang	99.6708	7.1294	1.44	1	
12	Ban Thung Ko	Ban whee	Had Samran Sub-district	Trang	99.6249	7.2797	0.64	1	
13	Ban Kokwa	Had Samran	Had Samran Sub-district	Trang	99.5433	7.2278	0.95	1	
14	Ban Laem Por	Had Samran	Had Samran Sub-district	Trang	99.5275	7.2425	1.32	1	
15	Ban Pakpron Tha Og	Had Samran	Had Samran Sub-district	Trang	99.5313	7.2654	0.69	1	*
16	Ban Pakpron Tha Tok	Had Samran	Had Samran Sub-district	Trang	99.5513	7.2758	0.60	1	
17	Ban Nong Samarn	Had Samran	Had Samran Sub-district	Trang	99.5631	7.2280	0.94	1	
18	Ban Laem Por	Had Samran	Had Samran Sub-district	Trang	99.5349	7.2404	0.92	1	*
19	Ban Kohwa	Had Samran	Had Samran Sub-district	Trang	99.5464	7.2269	0.95	1	*
20	Ban Kokkhai	Had Samran	Had Samran Sub-district	Trang	99.5571	7.2229	0.88	1	*
21	Ban Narapho	Had Samran	Had Samran Sub-district	Trang	99.5359	7.2650	0.66	1	*
22	Ban Kok Khain	Had Samran	Had Samran Sub-district	Trang	99.5423	7.2404	0.94	1	*
23	Ban Tha Rua	Kantang Tai	Kantang	Trang	99.5126	7.3915	0.16	1	
24	Ban Khuan Mong	Kantang Tai	Kantang	Trang	99.5081	7.3749	0.15	1	
25	Ban Jupa	Kantang Tai	Kantang	Trang	99.5237	7.3601	0.25	1	
26	Ban Koh Khiam	Kantang Tai	Kantang	Trang	99.5128	7.3292	0.63	1	*
27	Ban Tae Ram	Kantang Tai	Kantang	Trang	99.5236	7.3360	0.62	1	
28	Ban Kantang Tai	Kantang Tai	Kantang	Trang	99.5206	7.3943	0.16	1	
29	Ban Khok Gathon	Koh Libong	Kantang	Trang	99.3969	7.2571	2.92	2	*
30	Ban Koh Mook	Koh Libong	Kantang	Trang	99.3055	7.3723	2.31	2	*
31	Ban Modtanoi	Koh Libong	Kantang	Trang	99.4025	7.3209	1.79	1	*
32	Ban Patu Pou Te	Koh Libong	Kantang	Trang	99.4069	7.2474	2.68	2	*
33	Ban Lang Khao	Koh Libong	Kantang	Trang	99.3776	7.2116	2.05	2	*
34	Ban HadChaomai	Koh Libong	Kantang	Trang	99.4003	7.3088	1.06	1	*
35	Ban Traikaew	Koh Libong	Kantang	Trang	99.4170	7.2539	1.06	1	*
36	Ban Su - ngai Badee	Koh Libong	Kantang	Trang	99.4023	7.3278	1.93	1	
37	Khradan Island	Koh Libong	Kantang	Trang	99.2533	7.3144	1.43	1	
38	Talibong Island	Koh Libong	Kantang	Trang	99.3961	7.2275	1.46	1	
39	Ban Nong Samet	Khlong Cheelom	Kantang	Trang	99.6042	7.4371	0.01	1	
40	Ban Had Traikao	Na Klua	Kantang	Trang	99.4867	7.3134	0.87	1	*
41	Ban Naklua Nua	Na Klua	Kantang	Trang	99.4791	7.3680	0.97	1	
42	Ban Naklua Tai	Na Klua	Kantang	Trang	99.4793	7.3514	0.84	1	
43	Ban Phramuang	Na Klua	Kantang	Trang	99.4763	7.2928	0.88	1	*
44	Ban Tha Tomak	Na Klua	Kantang	Trang	99.4414	7.3085	0.82	1	
45	Ban Phramuang	Na Klua	Kantang	Trang	99.4786	7.2908	0.88	1	
46	Ban Had Traikhao	Na Klua	Kantang	Trang	99.4903	7.3139	1.53	1	
47	Ban Thaparb	Bor Namron	Kantang	Trang	99.5013	7.4409	0.18	1	
48	Ban Koh Jark	Bor Namron	Kantang	Trang	99.5022	7.4319	0.18	1	
49	Ban thasom	Bor Namron	Kantang	Trang	99.5031	7.4144	0.18	1	
50	Ban Hua Hin	Bor Namron	Kantang	Trang	99.4968	7.4076	0.18	1	
51	Ban Si Re	Bor Namron	Kantang	Trang	99.4904	7.4291	0.17	1	

Table A - 1 : Name List of 509 Tsunami Risk villages/Locations in 102 Tambons, 27 Districts of 26 Provinces on Andaman Sea Coast

No.	Location/village	Tambon	District	Province	Latitude (x) (East)	Longitude (y) (North)	Wave Height (เมตร)	Inten-sity	Remark
52	Ban Pak Khlong	Bor Namron	Kantang	Trang	99.5011	7.4142	0.18	1	
53	Ban Chaiwat	Bangpao	Kantang	Trang	99.5294	7.4171	0.14	1	
54	Ban Laem Muang	Bangpao	Kantang	Trang	99.5204	7.4254	0.14	1	
55	Ban Khuan Thongai	Bangpao	Kantang	Trang	99.5213	7.4314	0.14	1	
56	Ban Khuan Tungu	Bangsak	Kantang	Trang	99.3566	7.3902	1.76	1	*
57	Ban Namrab	Bangsak	Kantang	Trang	99.3992	7.3771	2.13	2	*
58	Ban ThungKkhai	Bangsak	Kantang	Trang	99.4193	7.3576	1.90	1	
59	Ban Tharua	Wangwon	Kantang	Trang	99.5669	7.3623	0.62	1	
60	Ban Laem	Wangwon	Kantang	Trang	99.5609	7.3480	0.65	1	
61	Ban PatTe	Wangwon	Kantang	Trang	99.5707	7.3861	0.16	1	
62	Ban Na Yodthong	Wangwon	Kantang	Trang	99.5564	7.3584	0.25	1	
63	Ban Siem Mai	Koh Sukhon	Palian	Trang	99.5724	7.1068	1.23	1	*
64	Ban Laem	Koh Sukhon	Palian	Trang	99.6077	7.0827	1.16	1	*
65	Ban Thung	Koh Sukhon	Palian	Trang	99.5845	7.0960	1.17	1	*
66	Ban Hadtrai Thong	Koh Sukhon	Palian	Trang	99.5832	7.1057	1.35	1	*
67	Sukhon Island	Koh Sukhon	Palian	Trang	99.5956	7.0886	1.61	1	
68	Ban Thakham	Thakham	Palian	Trang	99.6894	7.1667	0.81	1	*
69	Ban Yongstar	Thakham	Palian	Trang	99.6873	7.1401	0.75	1	*
70	Ban Phikun Thong	Thakham	Palian	Trang	99.6847	7.1498	0.70	1	*
71	Ban Thung Ruangthong	Thakham	Palian	Trang	99.6726	7.1318	0.68	1	*
72	Ban Thonhan	Thakham	Palian	Trang	99.7047	7.1939	0.68	1	*
73	Ban Khuan Tok	Thakham	Palian	Trang	99.6730	7.1395	0.67	1	*
74	Ban Thakham Tok	Thakham	Palian	Trang	99.6822	7.1815	0.55	1	*
75	Ban Khuan Lamphet	Thakham	Palian	Trang	99.6782	7.2042	0.74	1	*
76	Ban Hin Khokkwai	Ban Na	Palian	Trang	99.5917	7.3466	0.29	1	
77	Ban Laem Yao	Ban Na	Palian	Trang	99.6628	7.2843	0.62	1	*
78	Ban Suso	Suso	Palian	Trang	99.6724	7.2513	0.92	1	*
79	Ban Tha Khlong	Suso	Palian	Trang	99.6589	7.2679	0.72	1	*
80	Ban Thung Kor	Suso	Palian	Trang	99.6731	7.2617	0.92	1	*
81	Ban Nai Thon	Suso	Palian	Trang	99.6501	7.2381	0.63	1	*
82	Ban Thung Samran	Thung Krabue	Yantakhao	Trang	99.6337	7.4409	1.76	1	
83	Ban Thung Takheh	Thung Krabue	Yantakhao	Trang	99.6001	7.3629	0.24	1	
84	Ngai Island	Koh Lanta Yai	Sikao	Trang	99.2011	7.4114	1.61	1	
85	Morakot Cave, Mook Island	Koh Libong	Sikao	Trang	99.3056	7.3761	1.46	1	
86	Ban Laem Trai	Khao Maikaew	Sikao	Trang	99.2518	7.6252	1.15	1	*
87	Ban Bang Khangkhao	Khao Maikaew	Sikao	Trang	99.2755	7.6541	0.96	1	*
88	Ban Laem Maakham	Khao Maikaew	Sikao	Trang	99.2691	7.6272	1.23	1	*
89	Ban Thung Thong	Khao Maikaew	Sikao	Trang	99.2599	7.6270	1.25	1	*
90	Ban Borwa	Khao Maikaew	Sikao	Trang	99.3037	7.6511	0.59	1	
91	Ban Laem Trai	Khao Maikaew	Sikao	Trang	99.2536	7.6200	0.82	1	
92	Ban Phrujute	Borhin	Sikao	Trang	99.3232	7.5666	1.13	1	*
93	Ban Hua Hin	Borhin	Sikao	Trang	99.2996	7.5793	1.28	1	*
94	Ban To - bun	Borhin	Sikao	Trang	99.3012	7.5853	1.31	1	*
95	Ban Pakkhlong	Borhin	Sikao	Trang	99.2895	7.5922	1.20	1	*
96	Ban Pakkhlong	Borhin	Sikao	Trang	99.2853	7.5861	0.89	1	
97	Ban Mai Fad	Mai Fad	Sikao	Trang	99.3534	7.5381	0.98	1	*
98	Ban Pakmeng	Mai Fad	Sikao	Trang	99.3448	7.5037	1.53	1	*
99	Ban Changlang	Mai Fad	Sikao	Trang	99.3564	7.4482	1.67	1	*
100	Ban Nala	Mai Fad	Sikao	Trang	99.3483	7.4708	0.61	1	*
101	Pakmeng Beach	Mai Fad	Sikao	Trang	99.3217	7.4994	0.95	1	
102	Sikoa Bay	Mai Fad	Sikao	Trang	99.3067	7.5306	1.75	1	

Table A - 1 : Name List of 509 Tsunami Risk villages/Locations in 102 Tambons, 27 Districts of 26 Provinces on Andaman Sea Coast

No.	Location/village	Tambon	District	Province	Latitude (x) (East)	Longitude (y) (North)	Wave Height (เมตร)	Inten-sity	Remark
106 Tsunami Risk Villages/Locations in 22 Tambons, 7 Districts of Phang Nga Province									
1	Ban Tha Khai	Koh Yao Noi	Koh Yao	Phang Nga	98.5924	8.1215	0.61	1	*
2	Ban Yai	Koh Yao Noi	Koh Yao	Phang Nga	98.5944	8.1172	0.60	1	
3	Ban Nam Chuet	Koh Yao Noi	Koh Yao	Phang Nga	98.6004	8.1330	0.64	1	
4	Ban Thakhao	Koh Yao Noi	Koh Yao	Phang Nga	98.6247	8.1366	0.67	1	*
5	Ban Rim Talae	Koh Yao Noi	Koh Yao	Phang Nga	98.6032	8.1034	0.48	1	*
6	Ban Laem Yang	Koh Yao Noi	Koh Yao	Phang Nga	98.5798	8.1080	0.57	1	*
7	Ban Anpao	Koh Yao Noi	Koh Yao	Phang Nga	98.6148	8.1657	0.82	1	*
8	Ban Khlonghia	Koh Yao Yai	Koh Yao	Phang Nga	98.5275	8.0879	1.44	1	
9	Ban Chonglad	Koh Yao Yai	Koh Yao	Phang Nga	98.5804	8.0727	2.57	2	*
10	Ban Yami	Koh Yao Yai	Koh Yao	Phang Nga	98.5526	8.0561	1.95	1	*
11	Ban Khlongbon	Koh Yao Yai	Koh Yao	Phang Nga	98.6034	8.0464	2.75	2	*
12	Koa Yao Pier	Phru Nai	Koh Yao	Phang Nga	98.5744	7.9331	2.13	2	
13	Ban Khlonghia	Phru Nai	Koh Yao	Phang Nga	98.5694	7.9803	1.00	1	
14	Ban Lopo	Phru Nai	Koh Yao	Phang Nga	98.5878	7.9981	1.00	1	
15	Ban Phru Nai	Phru Nai	Koh Yao	Phang Nga	98.5931	7.9519	3.48	2	*
16	Ban Ao Kapor (Lo Patai)	Phru Nai	Koh Yao	Phang Nga	98.5850	7.9387	2.99	2	*
17	Ban Tharua	Phru Nai	Koh Yao	Phang Nga	98.5789	7.9735	2.40	2	*
18	Ban Khlong Dinnio	Phru Nai	Koh Yao	Phang Nga	98.5903	7.9261	2.45	2	*
19	Ban Ok	Phru Nai	Koh Yao	Phang Nga	98.5876	7.9341	3.09	2	*
20	Ban Lo Paret	Phru Nai	Koh Yao	Phang Nga	98.5711	7.9835	2.11	2	*
21	Ban Thung Dap	Koh Phrathong	Khura Buri	Phang Nga	98.2532	9.0347	19.60	4	*
22	Ban Tha Paeyoy	Koh Phrathong	Khura Buri	Phang Nga	98.2946	9.1143	6.60	3	*
23	Ban Kohra	Koh Phrathong	Khura Buri	Phang Nga	98.3096	9.2415	8.60	3	*
24	Ban Pakchok	Koh Phrathong	Khura Buri	Phang Nga	98.2664	9.1630	6.60	3	*
25	Surin Islands	Koh Phrathong	Khura Buri	Phang Nga	97.8458	9.4278	15.59	4	
26	Phrathong Island	Koh Phrathong	Khura Buri	Phang Nga	98.2258	9.0764	14.34	4	
27	Ban Triem	Khura	Khura Buri	Phang Nga	98.3971	9.2903	2.05	2	*
28	Ban Thung Nangdam	Khura	Khura Buri	Phang Nga	98.3467	9.2419	1.01	1	*
29	Ban Huaisap	Khura	Khura Buri	Phang Nga	98.4039	9.3281	2.58	2	
30	Ban Bang La	Khura	Khura Buri	Phang Nga	98.3875	9.2064	0.82	1	
31	Ban Suanmai	Khura	Khura Buri	Phang Nga	98.3976	9.3125	2.72	2	
32	Ban Bangwan	Bangwan	Khura Buri	Phang Nga	98.4128	8.9769	0.52	1	*
33	Ban Thung La Ong	Bangwan	Khura Buri	Phang Nga	98.3226	9.0435	0.83	1	*
34	Ban Khao Po	Kasom	TakuaThung	Phang Nga	98.4437	8.3580	0.18	1	
35	Ban Khuan	Kalai	TakuaThung	Phang Nga	98.4203	8.3238	0.13	1	*
36	Ban Samchong Tai	Kalai	TakuaThung	Phang Nga	98.4340	8.3178	0.12	1	
37	Ban Samchong Nua	Kalai	TakuaThung	Phang Nga	98.4203	8.3025	0.10	1	
38	Ban Payang	Kalai	TakuaThung	Phang Nga	98.3971	8.2969	0.10	1	
39	Ban Koh Khlang	Kalai	TakuaThung	Phang Nga	98.4854	8.3351	0.12	1	*
40	Ban Khlong Khain	Khlong Khian	TakuaThung	Phang Nga	98.4376	8.1816	1.06	1	*
41	Ban Hinrom	Khlong Khian	TakuaThung	Phang Nga	98.4369	8.1440	1.03	1	*
42	Ban Chaokroa	Khlong Khian	TakuaThung	Phang Nga	98.3987	8.1542	0.40	1	*
43	Ban Yansaba	Khlong Khian	TakuaThung	Phang Nga	98.4241	8.1726	1.25	1	*
44	Ban Khlongsai	Khlong Khian	TakuaThung	Phang Nga	98.4269	8.1985	1.63	1	*
45	Ban Hadtrai Pluekhoi	Khlong Khian	TakuaThung	Phang Nga	98.4402	8.2102	0.94	1	*
46	Ban Ao Makham	Khlong Khian	TakuaThung	Phang Nga	98.4484	8.2195	0.83	1	*
47	Ban Hanbua	Khok Kloy	TakuaThung	Phang Nga	98.2784	8.2774	5.75	3	*
48	Ban Na Tai	Khok Kloy	TakuaThung	Phang Nga	98.2846	8.2815	6.11	3	*
49	Ban Thanun	Khok Kloy	TakuaThung	Phang Nga	98.2996	8.2061	5.53	3	*
50	Ban Tonsae	Khok Kloy	TakuaThung	Phang Nga	98.2937	8.2494	5.79	3	
51	Ban Tha Pakwaeng	Khok Kloy	TakuaThung	Phang Nga	98.3254	8.2094	3.36	2	*

Table A - 1 : Name List of 509 Tsunami Risk villages/Locations in 102 Tambons, 27 Districts of 26 Provinces on Andaman Sea Coast

No.	Location/village	Tambon	District	Province	Latitude (x) (East)	Longitude (y) (North)	Wave Height (เมตร)	Inten-sity	Remark
52	Ban Khao Pilai	Khok Kloy	TakuaThung	Phang Nga	98.2887	8.2349	5.45	3	*
53	Ban Laem Hin	Lor Yoong	TakuaThung	Phang Nga	98.3427	8.1886	2.82	2	*
54	Ban Bangchan	Lor Yoong	TakuaThung	Phang Nga	98.3762	8.1520	0.39	1	*
55	Ban Bargan	Lor Yoong	TakuaThung	Phang Nga	98.3697	8.1689	0.41	1	*
56	Ban Muangmai	Koh Khor Khao	Takua Pa	Phang Nga	98.3013	8.9992	9.00	3	*
57	Ban Nokna	Koh Khor Khao	Takua Pa	Phang Nga	98.2622	8.9795	12.60	4	*
58	Ban Pak Koh	Koh Khor Khao	Takua Pa	Phang Nga	98.2708	8.8840	6.40	3	*
59	Ban Thungtuk	Koh Khor Khao	Takua Pa	Phang Nga	98.2600	8.9171	7.00	3	*
60	Ban Bangniang No. 5	Koh Khor Khao	Takua Pa	Phang Nga	98.2851	8.9739	6.00	3	*
61	Thungtao Ancient City	Koh Khor Khao	Takua Pa	Phang Nga	98.2311	8.9147	7.79	3	
62	Ban Pak Thaweap	Kook Khuk	Takua Pa	Phang Nga	98.2575	8.7467	10.00	3	*
63	Ban Bang Kaya	Kook Khuk	Takua Pa	Phang Nga	98.2510	8.7286	10.00	3	*
64	Ban Kook Khuk	Kook Khuk	Takua Pa	Phang Nga	98.2493	8.7012	9.00	3	*
65	Ban Thung Khamin	Kook Khuk	Takua Pa	Phang Nga	98.2873	8.7114	4.00	2	*
66	Ban Bangniang No. 5	Kook Khuk	Takua Pa	Phang Nga	98.2512	8.6738	11.00	4	*
67	Ban Bangniang No. 6	Kook Khuk	Takua Pa	Phang Nga	98.2585	8.6686	11.00	4	*
68	Ban Bang La - on	Kook Khuk	Takua Pa	Phang Nga	98.2485	8.6421	11.00	4	*
69	Kook Khuk Community	Kook Khuk	Takua Pa	Phang Nga	98.2339	8.6942	9.00	3	
70	Ban Bangniang	Kook Khuk	Takua Pa	Phang Nga	98.2392	8.6717	14.23	4	
71	Pakarang Cape	Kook Khuk	Takua Pa	Phang Nga	98.2158	8.7400	5.45	3	
72	Ban Bang Yai	Bang Nai Si	Takua Pa	Phang Nga	98.4044	8.9022	0.15	1	
73	Ban Bang Nai Sung	Bang Nai Si	Takua Pa	Phang Nga	98.3993	8.9510	0.21	1	
74	Ban Nam Khem	Bang Muang	Takua Pa	Phang Nga	98.2718	8.8605	15.80	4	*
75	Ban Bang Mo	Bang Muang	Takua Pa	Phang Nga	98.2678	8.8240	6.40	3	*
76	Ban Bang Lood	Bang Muang	Takua Pa	Phang Nga	98.2851	8.8214	5.20	3	*
77	Ban Bang Sak Nua	Bang Muang	Takua Pa	Phang Nga	98.2638	8.8016	13.10	4	*
78	Ban Bang Sak Tai	Bang Muang	Takua Pa	Phang Nga	98.2663	8.7699	11.00	4	*
79	Ban Bang Muang	Bang Muang	Takua Pa	Phang Nga	98.2675	8.8392	7.13	3	
80	Bang Sak Beach	Bang Muang	Takua Pa	Phang Nga	98.2489	8.8078	6.82	3	
81	Por Cape	Lamkaen	Takua Pa	Phang Nga	98.2331	8.5875	11.99	4	
82	Ban Khuan	bo Saen	Tup Put	Phang Nga	98.6009	8.4507	0.42	1	
83	Ban Khok Khrai	Marui	Tup Put	Phang Nga	98.6392	8.4061	0.33	1	
84	Ban Bo Saen Sai Ngam	Marui	Tup Put	Phang Nga	98.6490	8.4375	0.43	1	
85	Ban Tha Sanuk	Marui	Tup Put	Phang Nga	98.6438	8.4206	0.40	1	
86	Ban Khao Pilai	Thai Moeng	Thai Moeng	Phang Nga	98.2778	8.2311	6.57	3	
87	Ban Phodaeng	Thai Moeng	Thai Moeng	Phang Nga	98.2590	8.3799	5.81	3	
88	Ban thasom	Thai Moeng	Thai Moeng	Phang Nga	98.2545	8.4226	7.28	3	
89	Ban Lampi	Thai Moeng	Thai Moeng	Phang Nga	98.2654	8.4826	4.66	2	
90	Ban Thup Yang	Thai Moeng	Thai Moeng	Phang Nga	98.2543	8.4003	5.81	3	*
91	Thai Moeng Beach	Thai Moeng	Thai Moeng	Phang Nga	98.2456	8.3967	9.43	3	
92	Ban Kha Nimn	Thung Ma Prao	Thai Moeng	Phang Nga	98.2866	8.5130	4.35	2	
93	Ban Tha Taeng	Na Toei	Thai Moeng	Phang Nga	98.2656	8.3611	5.11	3	
94	Ban Nai Rai	Na Toei	Thai Moeng	Phang Nga	98.2888	8.3286	5.30	3	*
95	Ban Lam Ru	Lam Kaen	Thai Moeng	Phang Nga	98.2562	8.5964	4.51	2	*
96	Ban Khao Lak	Lam Kaen	Thai Moeng	Phang Nga	98.2410	8.6152	4.28	2	*
97	Ban Thup Lamu	Lam Kaen	Thai Moeng	Phang Nga	98.2271	8.5683	5.27	3	*
98	Payu Island	Lam Kaen	Thai Moeng	Phang Nga	97.6181	8.5664	4.45	2	
99	Similan Island	Lam Kaen	Thai Moeng	Phang Nga	97.6319	8.6469	4.49	2	
100	Huyong Island	Lam Kaen	Thai Moeng	Phang Nga	97.6333	8.4917	6.04	3	
101	Ban Tha Dan	Koh Panyi	Muang	Phang Nga	98.5135	8.3967	0.52	1	
102	Ban Koh Maipai	Koh Panyi	Muang	Phang Nga	98.5334	8.3433	0.18	1	*

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No.	Location/village	Tambon	District	Province	Latitude (x) (East)	Longitude (y) (North)	Wave Height (เมตร)	Inten-sity	Remark
103	Ban Koh Mak Noi	Koh Panyi	Muang	Phang Nga	98.5845	8.2891	0.54	1	
104	Ban Bang Siad	Bang Toei	Muang	Phang Nga	98.5837	8.4412	0.48	1	
105	Ban Klang	Bang Toei	Muang	Phang Nga	98.5883	8.3864	0.44	1	*
106	Ban Bang Pat	Bang Toei	Muang	Phang Nga	98.5661	8.3718	0.51	1	*

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No.	Location/village	Tambon	District	Province	Latitude (x) (East)	Longitude (y) (North)	Wave Height (เมตร)	Inten-sity	Remark
69 Tsunami Risk Villages/Locations in 13 Tambons, 3 Districts of Phuket Province									
1	Ban Bang Wan	Kamala	Kathu	Phuket	98.2879	7.9443	7.08	3	*
2	Ban Nua	Kamala	Kathu	Phuket	98.2829	7.9487	5.67	3	*
3	Ban Nok Le	Kamala	Kathu	Phuket	98.2816	7.9539	5.02	3	*
4	Ban Khok Yang	Kamala	Kathu	Phuket	98.2783	7.9473	5.67	3	*
5	Ban Hua Khuan	Kamala	Kathu	Phuket	98.2889	7.9559	5.98	3	*
6	Ban Na Kha	Kamala	Kathu	Phuket	98.2723	7.9291	6.30	3	*
7	Kamala Beach	Kamala	Thalang	Phuket	98.2772	7.9556	8.16	3	
8	Ban Bang Tao	Choeng Thale	Thalang	Phuket	98.2934	7.9765	6.00	3	*
9	Ban Had Surin	Choeng Thale	Thalang	Phuket	98.2804	7.9793	5.24	3	*
10	Ban Pasak	Choeng Thale	Thalang	Phuket	98.3123	8.0129	7.19	3	*
11	Ban Bangtao Nok	Choeng Thale	Thalang	Phuket	98.2952	7.9838	6.85	3	*
12	Ban Khok Tanote	Choeng Thale	Thalang	Phuket	98.3093	8.0158	7.19	3	*
13	Bangtao Bay	Choeng Thale	Thalang	Phuket	98.2800	8.0133	8.16	3	
14	Ban Laem Trai	Thepkasattri	Thalang	Phuket	98.3690	8.1194	0.48	1	*
15	Ban Tha Paprao	Thepkasattri	Thalang	Phuket	98.3581	8.0993	6.79	3	
16	Ban Phakchid	Pa Klok	Thalang	Phuket	98.3968	8.0066	1.56	1	*
17	Ban Pa Klok	Pa Klok	Thalang	Phuket	98.4029	8.0333	2.42	2	*
18	Ban Bangrong	Pa Klok	Thalang	Phuket	98.4079	8.0578	1.75	1	*
19	Ban Para	Pa Klok	Thalang	Phuket	98.3876	8.0813	0.45	1	*
20	Ban Koh Nakha	Pa Klok	Thalang	Phuket	98.4676	8.0535	1.59	1	*
21	Ban Ao Po	Pa Klok	Thalang	Phuket	98.4287	8.0628	1.99	1	*
22	Ban Yamu	Pa Klok	Thalang	Phuket	98.4114	7.9961	1.26	1	*
23	Ban Ao Kung	Pa Klok	Thalang	Phuket	98.4148	8.0715	0.44	1	*
24	Patoing Bay (Patong Municipality)	Patong	Thalang	Phuket	98.2839	7.9031	7.34	3	
25	Ban Mak Prok	Mai Khao	Thalang	Phuket	98.3347	8.1179	7.16	3	*
26	Ban Kho En	Mai Khao	Thalang	Phuket	98.3375	8.1659	9.51	3	
27	Ban Suan Maprao	Mai Khao	Thalang	Phuket	98.3068	8.1602	7.35	3	*
28	Ban Mai Khao	Mai Khao	Thalang	Phuket	98.3066	8.1318	5.95	3	*
29	Tan Tha Chatchai	Mai Khao	Thalang	Phuket	98.2935	8.1987	5.92	3	
30	Ban Bo Trai	Mai Khao	Thalang	Phuket	98.3120	8.1104	6.06	3	
31	Phuket International Airport	Mai Khao	Thalang	Phuket	98.2981	8.1119	6.27	3	
32	Had Maikhao	Mai Khao	Thalang	Phuket	98.2914	8.1478	6.54	3	
33	Ban Nai Yang	Saku	Thalang	Phuket	98.3057	8.0875	7.40	3	*
34	Ban Trok Muang	Saku	Thalang	Phuket	98.2852	8.0779	4.96	2	*
35	Ban Saku	Saku	Thalang	Phuket	98.2901	8.0696	5.08	3	*
36	Ban Nai Thon	Saku	Thalang	Phuket	98.2808	8.0596	4.47	2	*
37	Ban Bang Paloa	Saku	Thalang	Phuket	98.3045	8.0821	7.40	3	*
38	Nai Thon Beach	Saku	Thalang	Phuket	98.2753	8.0564	8.03	3	
39	Nai Yang Beach	Saku	Thalang	Phuket	98.2928	8.0900	6.27	3	
40	Kata Beach (Karon Tambon	Karon	Maung	Phuket	98.2900	7.8161	3.40	2	
	Municipality								
41	Kata Noi Beach (Karon Tambon	Karon	Maung	Phuket	98.2958	7.8061	3.40	2	
	Municipality)								
42	Karon Beach (Karon Tambon	Karon	Maung	Phuket	98.2872	7.8389	4.11	2	
	(Municipality)								
43	Ban Karon	Karon	Maung	Phuket	98.2988	7.8489	7.78	3	*
44	Ban Kata	Karon	Maung	Phuket	98.3066	7.8223	5.50	3	*
45	Ban Bang La	Karon	Maung	Phuket	98.2986	7.8395	7.81	3	*
46	Ban Khok Chang	Karon	Maung	Phuket	98.2991	7.8287	6.65	3	*
47	Ban Sapam	Koh Kaew	Maung	Phuket	98.3920	7.9393	0.42	1	*
48	Ban Bang Khu	Koh Kaew	Maung	Phuket	98.3879	7.9587	1.54	1	
49	Ban Bang Neo	Koh Kaew	Maung	Phuket	98.3980	7.9405	0.42	1	*

Table A - 1 : Name List of 509 Tsunami Risk villages/Locations in 102 Tambons, 27 Districts of 26 Provinces on Andaman Sea Coast

No.	Location/village	Tambon	District	Province	Latitude (x) (East)	Longitude (y) (North)	Wave Height (เมตร)	Inten-sity	Remark
50	Ban Hua Khuan, Hoh Kaew No.5	Koh Kaew	Maung	Phuket	98.3808	7.9648	1.33	1	*
51	Ban Koh Maprao, Chakkhongsri	Koh Kaew	Maung	Phuket	98.4258	7.9370	1.41	1	*
52	Ban Laem Hin	Koh Kaew	Maung	Phuket	98.4029	7.9349	0.37	1	*
53	Ban Bon Suan	Chalong	Maung	Phuket	98.3520	7.8392	1.93	1	
54	Ban Pa Lai	Chalong	Maung	Phuket	98.3614	7.8398	1.62	1	*
55	Ban Khok Tanote	Chalong	Maung	Phuket	98.3442	7.8368	7.90	3	
56	Ban Khok Trai	Chalong	Maung	Phuket	98.3455	7.8312	1.89	1	
57	Ban Koh sire	Ratchada	Maung	Phuket	98.4274	7.8871	1.58	1	*
58	Ban Laem Klang, Tukkae Cape	Ratchada	Maung	Phuket	98.4182	7.8753	1.45	1	*
59	Ban Tharua Mai	Ratchada	Maung	Phuket	98.4097	7.9060	1.66	1	*
60	Rachayai Island	Rawai	Maung	Phuket	98.3494	7.5953	6.31	3	
61	Ban Rawai	Rawai	Maung	Phuket	98.3278	7.7815	3.68	2	*
62	Ban Koh Lone	Rawai	Maung	Phuket	98.3681	7.7925	2.51	2	*
63	Ban Bang Khonti	Rawai	Maung	Phuket	98.3347	7.8119	4.64	2	*
64	Ban Ao Chalong	Rawai	Maung	Phuket	98.3385	7.8113	3.29	2	*
65	Ban Naya Nui, Ha Yaek	Rawai	Maung	Phuket	98.3219	7.7764	3.71	2	*
66	Ban Bo Rae	Wichit	Maung	Phuket	98.3802	7.8466	2.48	2	*
67	Ban Ao Mnakham	Wichit	Maung	Phuket	98.3994	7.8294	1.65	1	*
68	Ban Laem	Wichit	Maung	Phuket	98.4072	7.8090	2.41	2	*
69	Ban Tha Khlang	Wichit	Maung	Phuket	98.3812	7.8604	2.48	2	*

Table A - 1 : Name List of 509 Tsunami Risk villages/Locations in 102 Tambons, 27 Districts of 26 Provinces on Andaman Sea Coast

No.	Location/village	Tambon	District	Province	Latitude (x) (East)	Longitude (y) (North)	Wave Height (เมตร)	Inten-sity	Remark
Tsunami Risk Villages/Locations in 11 Tambon, 8 Districts of Ranong Province									
1	Ban Thale Nok	Kamphuan	SukSamran Sub District	Ranong	98.4304	9.4456	6.80	3	*
2	Ban Nua, Ban Suk Samran	Kamphuan	SukSamran Sub District	Ranong	98.4165	9.3694	9.70	3	*
3	Ban Kam Phuan	Kamphuan	SukSamran Sub District	Ranong	98.4178	9.3743	6.80	3	*
4	Ban Phukhao Thong	Kamphuan	SukSamran Sub District	Ranong	98.4234	9.3829	6.80	3	*
5	Ban Suk Samran	Kamphuan	SukSamran Sub District	Ranong	98.4184	9.3466	6.80	3	*
6	Ban Tone Kloy	Kamphuan	SukSamran Sub District	Ranong	98.4327	9.3502	3.22	2	*
7	Praphat Beach	Kamphuan	SukSamran Sub District	Ranong	98.3886	9.3786	12.66	4	
8	Ban Bangmun	Nakha	SukSamran Sub District	Ranong	98.4925	9.4536	0.67	1	*
9	Ban Napru	Nakha	SukSamran Sub District	Ranong	98.4651	9.4357	2.23	2	*
10	Ban BangKluay Nok	Nakha	SukSamran Sub District	Ranong	98.4314	9.3960	2.16	2	*
11	Ban Rainai, Ban Khuan Trai Ngam	Nakha	SukSamran Sub District	Ranong	98.4517	9.4284	2.00	1	*
12	Ban Laem Now	Nakha	SukSamran Sub District	Ranong	98.4597	9.5211	2.19	2	*
13	Ban Thale Nok	Nakha	SukSamran Sub District	Ranong	98.4339	9.5094	7.84	3	
14	Khangkhao Island	Muang Klang	SukSamran Sub District	Ranong	98.3794	9.5703	3.74	2	
15	Ban Laem Now	Muang Klang	SukSamran Sub District	Ranong	98.4606	9.5675	5.38	3	
16	Ban Dan, Ban Kapur	Kapur	Kapur	Ranong	98.5999	9.5840	0.51	1	*
17	Ban Huay Siat, Ban Siat	Kapur	Kapur	Ranong	98.6215	9.6017	0.41	1	*
18	Ban Chakhli	Bang Hin	Kapur	Ranong	98.5409	9.5357	0.37	1	*
19	Ban Muang Klang	Muang Klang	Kapur	Ranong	98.5439	9.6188	0.53	1	*
20	Ban bangkben	Muang Klang	Kapur	Ranong	98.4689	9.6080	4.90	2	*
21	Ban Sammak	Muang Klang	Kapur	Ranong	98.5409	9.6025	0.40	1	*
22	Ban Ao Kholi	Muang Klang	Kapur	Ranong	98.4754	9.6264	4.90	2	*
23	Bangben Beach	Muang Klang	Kapur	Ranong	98.4603	9.6075	3.35	2	
24	Chang Island	Koh Phayam	Maung	Ranong	98.4356	9.8489	1.83	1	
25	Phayam Island	Koh Phayam	Maung	Ranong	98.3797	9.7408	3.99	2	
26	Ban Koh Phayam	Koh Phayam	Maung	Ranong	98.4180	9.7355	4.20	2	*
27	Ban Kolr Coh Chang	Koh Phayam	Maung	Ranong	98.4574	9.8539	0.91	1	*
28	Ban Traidaneng	Traidaeng	Maung	Ranong	98.6966	10.1582	0.78	1	*
29	Ban Hindad	Traidaeng	Maung	Ranong	98.6827	10.1160	0.83	1	*
30	Ban Nam Tok	Traidaeng	Maung	Ranong	98.6720	10.0879	0.34	1	*
31	Ban Koh Lao	Pak Nam	Maung	Ranong	98.5561	9.9150	0.78	1	
32	Pak Nam Tambon Municipality	Pak Nam	Maung	Ranong	98.5831	9.9456	1.70	1	
33	"Ban Pak Nam, Ban Saphan Pla"	Pak Nam	Maung	Ranong	98.6327	10.0278	1.70	1	*
34	Ban Hin Chang	Pak Nam	Maung	Ranong	98.6392	10.0493	2.90	2	*
35	Ban Koh sin Hai	Pak Nam	Maung	Ranong	98.4835	9.9050	0.91	1	*
36	Ban Khao Nanghong	Pak Nam	Maung	Ranong	98.6366	10.0354	0.61	1	
37	Ban Koh Loa	Pak Nam	Maung	Ranong	98.5588	9.9092	0.78	1	*
38	"Ban Lang, Ban Ratcha Krut"	Ratcha Krut	Maung	Ranong	98.5879	9.7418	0.78	1	*
39	Ban Khlong Khong	Ratcha Krut	Maung	Ranong	98.5575	9.6433	1.10	1	*
40	"ban Huai Pling, Ban Khlong	Ratcha Krut	Maung	Ranong	98.5669	9.6746	1.10	1	*
	Laonon"								
41	Ban Khchat Phai	Ratcha Krut	Maung	จ.ระนอง	98.5643	9.6607	1.10	1	*
42	Ban Hadthrai Dam	Ngao	Maung	จ.ระนอง	98.5158	9.7892	1.51	1	
43	Ban Tha Chang	Ngao	Maung	จ.ระนอง	98.5937	9.8467	2.00	1	*
44	"Ban Lang, Ban Tha Hai"	Ngao	Maung	จ.ระนอง	98.5919	9.8595	2.00	1	*
45	Ban Hadthrai Dam (Island	Ngao	Maung	จ.ระนอง	98.5181	9.7851	3.70	2	*

Table A - 1 : Name List of 509 Tsunami Risk villages/Locations in 102 Tambons, 27 Districts of 26 Provinces on Andaman Sea Coast

No.	Location/village	Tambon	District	Province	Latitude (x) (East)	Longitude (y) (North)	Wave Height (เมตร)	Inten-sity	Remark
74 Tsunami Risk Villages/Locations in 16 Tambons, 4 Districts of Satun Province									
1	Ban Sai Khuan	Thaphae	Thaphae	Satun	99.9460	6.7700	0.42	1	*
2	Ban Dalam	Thaphae	Thaphae	Satun	99.9514	6.7884	0.53	1	*
3	Ban Thung Rin	Sakhon	Thaphae	Satun	99.9135	6.7299	0.78	1	*
4	"Ban Sakhon, Ban ThungSakhon"	Sakhon	Thaphae	Satun	99.9001	6.7381	0.70	1	*
5	Ban Khlong Liki	Sakhon	Thaphae	Satun	99.8907	6.7382	0.89	1	*
6	"Ban Tun, Ban Sakhon Nua"	Sakhon	Thaphae	Satun	99.8987	6.7528	0.95	1	*
7	"Ban Khong Song Pak,	Sakhon	Thaphae	Satun	99.8754	6.7800	1.15	1	*
	Ban Pakrad"								
8	Ban Khlong Ban, Ban KhlongMan	Sakhon	Thaphae	Satun	99.8744	6.7858	1.06	1	*
9	Ban Khon Khlam Tawan - ok	Khon Khlan	Thungwa	Satun	99.6907	7.0145	0.88	1	*
10	Ban Rawai Tai	Khon Khlan	Thungwa	Satun	99.6773	6.9838	1.18	1	*
11	Ban Khon Khlam Tawan - tok	Khon Khlan	Thungwa	Satun	99.6830	7.0072	1.11	1	*
12	Ban Rawai Nua	Khon Khlan	Thungwa	Satun	99.6768	7.0001	1.17	1	*
13	Rawai Beach	Khon Khlan	Thungwa	Satun	99.6719	6.9875	1.32	1	
14	Ban Mahang	Thung Bulang	Thungwa	Satun	99.6922	7.0666	0.62	1	*
15	"Ban Thung Saboh, Ban Thung	Thung Bulang	Thungwa	Satun	99.6760	7.0217	0.91	1	*
	Saboh"								
16	Ban Thung Thanan	Thung Bulang	Thungwa	Satun	99.6897	7.0407	0.95	1	*
17	Ban Thana	Thung Bulang	Thungwa	Satun	99.6904	7.0458	0.85	1	*
18	Ban Thung Bulang	Thung Bulang	Thungwa	Satun	99.6889	7.0304	0.88	1	*
19	Ban Thung Sabo	Thung Bulang	Thungwa	Satun	99.6711	7.0289	1.12	1	
20	Ban Thakham Khwai	Nathon	Thungwa	Satun	99.7368	7.0861	0.86	1	
21	Rawi Island	Koh Sarai	Maung	Satun	99.2128	6.5781	1.16	1	
22	Rawi Island 2 Adang Island	Koh Sarai	Maung	Satun	99.1775	6.5519	1.66	1	
23	Adang Island	Koh Sarai	Maung	Satun	99.2997	6.5686	2.40	2	
24	Chak Bay, Tarutao Islands	Koh Sarai	Maung	Satun	99.6364	6.6856	2.39	2	
25	Son Bay	Koh Sarai	Maung	Satun	99.6128	6.6308	1.32	1	
26	Ban Tanyong Uba	Koh Sarai	Maung	Satun	99.8575	6.7290	0.93	1	*
27	"Ban Bangkan Yai, Ban Bagan	Koh Sarai	Maung	Satun	99.8512	6.7183	0.90	1	*
	Yai"								
28	"Ban Tanyong Kaling, Ban	Koh Sarai	Maung	Satun	99.8644	6.7108	0.73	1	*
	Tanyong Kli"								
29	Ban Raya Totnui	Koh Sarai	Maung	Satun	99.8641	6.6842	0.68	1	*
30	Ban Raya Totyai, Ban Koh Sarai	Koh Sarai	Maung	Satun	99.8632	6.6674	1.10	1	*
31	"Ban Talo Nam, Ban Tha Lao"	Koh Sarai	Maung	Satun	99.8506	6.6612	1.09	1	*
32	"Ban Koh Li Pe, Ban Koh Adang"	Koh Sarai	Maung	Satun	99.3068	6.4836	1.92	1	
33	Ban Koh Nok	Khlong Khut	Maung	Satun	100.0765	6.5895	0.54	1	*
34	Ban Tha Hin	Khuan Khun	Maung	Satun	100.0176	6.6324	0.54	1	*
35	Ban Che Bilung	Cha Bilung	Maung	Satun	99.9878	6.6549	1.05	1	*
36	Ban BaTe	Cha Bilung	Maung	Satun	99.9798	6.7174	1.05	1	*
37	Ban Ban Nang Pulao	Cha Bilung	Maung	Satun	99.9408	6.6959	1.21	1	*
38	Ban Tanyong Po	Tanyong Po	Maung	Satun	99.9625	6.5950	1.01	1	*
39	Ban Hdathrai Khao	Tanyong Po	Maung	Satun	99.9548	6.6138	1.01	1	*
40	Ban Bagan Khoey	Tanyong Po	Maung	Satun	99.9743	6.6007	1.58	1	*
41	Ban Tummalung Nua	Tammalung	Maung	Satun	100.0491	6.5417	0.91	1	
42	Ban Tummalung Tai	Tammalung	Maung	Satun	100.0563	6.5350	0.86	1	
43	Ban Hoh Yao	Puyu	Maung	Satun	100.1125	6.4754	1.06	1	
44	Ban Tanyong Kaboy	Puyu	Maung	Satun	100.0985	6.5084	0.86	1	*
45	Ban Puyu	Puyu	Maung	Satun	100.1021	6.5015	0.91	1	*
46	Ban Lae La	Lumphaeng	La Ngu	Satun	99.7556	6.9246	1.43	1	*
47	Ban Khuan	ต.กำแพง	La Ngu	Satun	99.7734	6.8794	0.90	1	*
48	Ban Bo Chetluk	Lumphaeng	La Ngu	Satun	99.7020	6.8750	2.51	2	*

Table A - 1 : Name List of 509 Tsunami Risk villages/Locations in 102 Tambons, 27 Districts of 26 Provinces on Andaman Sea Coast

No.	Location/village	Tambon	District	Province	Latitude (x) (East)	Longitude (y) (North)	Wave Height (เมตร)	Inten-sity	Remark
49	Ban Pak Bara	Paknam	La Ngu	Satun	99.7272	6.8558	1.04	1	*
50	Ban Koh Bulon	Paknam	La Ngu	Satun	99.6883	6.8315	1.98	1	*
51	Ban Talo Sai	Paknam	La Ngu	Satun	99.7509	6.8448	1.01	1	*
52	Ban Tha Yang	Paknam	La Ngu	Satun	99.7625	6.8741	1.13	1	*
53	Ban Tha Malai	Paknam	La Ngu	Satun	99.7403	6.8631	1.04	1	*
54	Ban Tha Payom	Paknam	La Ngu	Satun	99.7440	6.8820	0.99	1	*
55	Pak Bara Pier	Paknam	La Ngu	Satun	99.7172	6.8544	1.04	1	
56	Ban Bo Chetluk	Paknam	La Ngu	Satun	99.6886	6.8708	4.14	2	
57	Bulon Island	La Ngu	La Ngu	Satun	99.7594	6.7919	0.62	1	
58	Chamuang Pier	La Ngu	La Ngu	Satun	99.7931	6.8158	0.84	1	
59	"Ban Tha Chamuang, Ban Hua	La Ngu	La Ngu	Satun	99.8021	6.8076	0.63	1	*
	Hin"								
60	Ban Pak La Ngu	La Ngu	La Ngu	Satun	99.7863	6.8313	0.69	1	*
61	Ban Koh Yuan	La Ngu	La Ngu	Satun	99.8038	6.8703	0.98	1	*
62	"Ban La Ngu, Ban Tha Khlong,	La Ngu	La Ngu	Satun	99.7841	6.8667	1.14	1	*
	Ban Hua"								
63	"Ban Hua Thang, Ban La Nga"	La Ngu	La Ngu	Satun	99.7786	6.8733	1.06	1	*
64	Ban Kun To Tid, Ban Kan To	La Ngu	La Ngu	Satun	99.8202	6.7762	0.98	1	*
65	Ban Lom Phun	La Ngu	La Ngu	Satun	99.7953	6.8768	1.00	1	
66	"Ban Nai Sai, Ban Nai Rai"	La Ngu	La Ngu	Satun	99.7826	6.8702	1.14	1	*
67	Ban Tanyong Lanai	Laemson	La Ngu	Satun	99.6862	6.9693	1.05	1	*
68	Ban Kabang	Laemson	La Ngu	Satun	99.7001	6.9390	1.32	1	*
69	Ban BuBoy	Laemson	La Ngu	Satun	99.6892	6.9526	1.06	1	*
70	Ban Son Klang	Laemson	La Ngu	Satun	99.6858	6.9242	1.28	1	*
71	"Ban Su Ngai Musoh, Ban Su	Laemson	La Ngu	Satun	99.7126	6.9582	1.13	1	*
	Ngai Muso"								
72	Ban Sonmai	Laemson	La Ngu	Satun	99.6876	6.9136	1.54	1	*
73	ban Bulon le	Laemson	La Ngu	Satun	99.5311	6.8353	1.60	1	
74	Ban Buboy	Laemson	La Ngu	Satun	99.6800	6.9486	1.47	1	
	Total : 506 Tsunami Risk Areas in 103 Tambosn, 27 Districts of 6 Andaman Sea Coast Provinces								

Remark 1

2. Names and positions of beaches, tourist attractions and key places are available from conducting data checking and applying Google Earth Map (2006) to plot their coordinate positions
3. Wave hieghts are available from the results of data analysis using mathamatical modelling conducted by Engineering College, Rangsit University.
4. Basing on Shuto's Tsunami Intensity Scale (1983) to determine tsunami intensity in areas at risk, In case of Thailand, the experts have determined and classified tsunami intensity into 4 levels as follow :

Level of Intensity	Descriptiion
4 (Wave hight greater than 10 metres)	Causes catastrophic damage to life and physical assets. Livelihoods are completely ruins. Water backwashes drift vehicles and other objects into a sea. Big boulders and vessels are drifted ashore. All types of building are demolished.
3 (Wave height : 5 - 10 metes)	Causes severe damage to life and property. People are swept along by tsunami waves. Small vessels are demolished. Wooden and Masonry buildings are totally destroyed. Rainforced - concreete buildings are partly destroyed.
2 (Wave height : 2 - 5 metres)	Causes moderate damage. Number of people are swept off by waves. Causes damage to small vessels. Most wooden houses are swept away and masonry buildings are partly demolished. Most rainforced - concrete buildings withstand.
1 (Waves height : less than 2 metres)	Causes minor damage. Small vessels may be swept ashore or overturn. Wooden houses may collapse. Reinforce - concrete buildings withstand.

5. * Refers to villges attached by 2004 Indian Ocedan tsunami. These villages have been included in name lists of villge/ community at risk under Master Plan on Evacuation of People from Tsunami at Risk Areas

Table A - 2 Name List of 907 Tsunami Risk Villages/Locations in 222 Tambons, 70 Districts of 16 Provinces on Guld of Thailand Coast.

No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
45 Tsunami Risk Villages/Locations in 9 Tambons, 4 Districts of Chanthaburi Province								
1	Ban Nakung	Bangchan	Khlung	Chanthaburi	102.2149	12.3371	0.38	1
a	Dadet Cape	Khlong Khut	Thamai	Chanthaburi	101.8947	12.5686	0.39	1
3	Ban Sattabut	Khlong Khut	Thamai	Chanthaburi	101.9211	12.5936	0.47	1
4	Ban Noen Pradu	Khlong Khut	Thamai	Chanthaburi	101.9156	12.5843	0.43	1
5	Ban Mu Kut	Khlong Khut	Thamai	Chanthaburi	101.9197	12.5694	0.47	1
6	Ban Chaolao	Khlong Khut	Thamai	Chanthaburi	101.9299	12.5473	0.49	1
	Ban Hua Laem Chaoloa	Khlong Khut	Thamai	Chanthaburi	101.9306	12.5377	0.49	1
8	Ban Khung Kaben	Khlong Khut	Thamai	Chanthaburi	101.8916	12.5752	0.39	1
9	Ban Amphawa	Khlong Khut	Thamai	Chanthaburi	101.9369	12.5658	0.44	1
10	Ban Khlong Khut	Khlong Khut	Thamai	Chanthaburi	101.9106	12.6008	0.43	1
11	Ban Khlong Khut	Khlong Khut	Thamai	Chanthaburi	101.9146	12.5922	0.43	1
12	Ban Khlong Ta Sung	Takat Ngao	Thamai	Chanthaburi	101.9681	12.5551	0.45	1
13	Ban Paknam Khaema Nu	Takat Ngao	Thamai	Chanthaburi	101.9581	12.5446	0.45	1
14	Ban Paknam Krachae	Krachae	Nayaiarm	Chanthaburi	101.8455	12.6603	0.26	1
15	Ban Nacha	Krachae	Nayaiarm	Chanthaburi	101.8621	12.6469	0.26	1
16	Ban Noen Phruat	Krachae	Nayaiarm	Chanthaburi	101.8539	12.6726	0.28	1
17	Ban Nongwan	Krachae	Nayaiarm	Chanthaburi	101.8604	12.6649	0.26	1
18	Ban Nong bua	Krachae	Nayaiarm	Chanthaburi	101.8600	12.6557	0.26	1
19	Ban Si Yaek	Changkham	Nayaiarm	Chanthaburi	101.7948	12.7010	0.29	1
20	Ban thanon Sung	Changkham	Nayaiarm	Chanthaburi	101.7892	12.6947	0.33	1
21	Ban Troklang	Changkham	Nayaiarm	Chanthaburi	101.8006	12.7029	0.29	1
22	Ban Khaodan	Changkham	Nayaiarm	Chanthaburi	101.8119	12.6925	0.31	1
23	Ban Nong thrai	Changkham	Nayaiarm	Chanthaburi	101.8192	12.6925	0.27	1
24	Ban Khung Takian	Changkham	Nayaiarm	Chanthaburi	101.8297	12.6751	0.29	1
25	Khung Wiman Beach	Sanamchai	Nayaiarm	Chanthaburi	101.8789	12.5939	0.28	1
26	Ban Pak Tapone	Sanamchai	Nayaiarm	Chanthaburi	101.8648	12.6384	0.28	1
27	Ban Song Pinong	Sanamchai	Nayaiarm	Chanthaburi	101.8822	12.6219	0.29	1
28	Ban Tha Klang	Sanamchai	Nayaiarm	Chanthaburi	101.8970	12.6129	0.39	1
29	Ban Koh Pruet	Koh Pruet	Laem Sing	Chanthaburi	102.1200	12.4108	0.37	1
30	Ban Koh Pruet	Koh Pruet	Laem Sing	Chanthaburi	102.1276	12.4136	0.40	1
31	Ban Koh Pruet	Koh Pruet	Laem Sing	Chanthaburi	102.1247	12.4086	0.37	1
32	Ban Khao Tanuay	Koh Pruet	Laem Sing	Chanthaburi	102.1373	12.4218	0.39	1
33	Ban Khao Tanuay	Koh Pruet	Laem Sing	Chanthaburi	102.1333	12.4261	0.39	1
34	Ban Pakkhlong	Koh Pruet	Laem Sing	Chanthaburi	102.1539	12.4069	0.41	1
35	Ban Khlong Hok	Koh Pruet	Laem Sing	Chanthaburi	102.1989	12.3604	0.43	1
36	Ban Laem Sing	Bang Kachai	Laem Sing	Chanthaburi	102.0552	12.4886	0.36	1
37	Ban Laem Pradu	Bang Kachai	Laem Sing	Chanthaburi	102.0442	12.4955	0.42	1
38	Ban Khlong Pladuk	Bang Kachai	Laem Sing	Chanthaburi	102.0314	12.5157	0.53	1
39	Ban Bang Kachai	Bang Kachai	Laem Sing	Chanthaburi	102.0152	12.5309	0.44	1
40	Ban Bang Kachai	Bang Kachai	Laem Sing	Chanthaburi	102.0186	12.5262	0.45	1
41	Ban Bang Kachai	Bang Kachai	Laem Sing	Chanthaburi	102.0108	12.5315	0.44	1
42	Ban Rua Taek	Bang Kachai	Laem Sing	Chanthaburi	102.0014	12.5352	0.41	1
43	Ban Hua Khao	Bang Kachai	Laem Sing	Chanthaburi	102.0091	12.5371	0.44	1
44	Ban Ao Moo	Bang Kachai	Laem Sing	Chanthaburi	102.0588	12.5067	0.41	1
45	Laem Sing Municipality	Paknam Laem Sing	Laem Sing	Chanthaburi	102.0864	12.4619	0.40	1

Table A - 2 Name List of 907 Tsunami Risk Villages/Locations in 222 Tambons, 70 Districts of 16 Provinces on Guld of Thailand Coast.

No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
8 Tsunami Risk Villges/Locations in 2 Tambons, 1 District of Chachoengsao Province								
1	Ban Khlong Phikhut	Bang Pakong	Bang Pakong	Chachoengsao	100.9570	13.4887	0.23	1
2	Ban Khlong Taruay	Song Khlong	Bang Pakong	Chachoengsao	100.9283	13.4747	0.23	1
3	Ban Khlong Charoenwai	Song Khlong	Bang Pakong	Chachoengsao	100.9128	13.4714	0.26	1
4	Ban Khlong Samekhao	Song Khlong	Bang Pakong	Chachoengsao	100.8970	13.4723	0.27	1
5	Ban Song Khlong	Song Khlong	Bang Pakong	Chachoengsao	100.8853	13.4779	0.26	1
6	Ban Khlong Khutmai	Song Khlong	Bang Pakong	Chachoengsao	100.8986	13.4843	0.27	1
7	Ban Khlong Hongthong	Song Khlong	Bang Pakong	Chachoengsao	100.8691	13.4759	0.29	1
8	Ban Khlong Silong	Song Khlong	Bang Pakong	Chachoengsao	100.8521	13.4873	0.28	1

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No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
41 Tsunami Risk Villges/Locations in 15 Tambons, 5 Districts of Chonburi Province								
1	Ban Koh Khamyai	Tha Thawawong	Koh Sichang	Chonburi	100.8239	13.1680	0.27	1
2	Pattaya Nua (Muang Pattaya)	Nakhlua	Bang Lamung	Chonburi	100.9169	12.9886	0.17	1
3	Wong Phrachan Beach (Muang Pattaya)	Nong Prue	Bang Lamung	Chonburi	100.8778	12.9392	0.18	1
4	Ban Nongyai	Nong Prue	Bang Lamung	Chonburi	100.9209	12.9603	0.17	1
5	Ban Naklue	Nong Prue	Bang Lamung	Chonburi	100.9221	12.9651	0.17	1
6	Ban Klang	Khlong Tamru	Muang	Chonburi	100.9872	13.4589	0.27	1
7	Ban Pakkhlong	Khlong Tamru	Muang	Chonburi	100.9795	13.4644	0.27	1
8	Conburi Municipality	Ban Suan	Muang	Chonburi	100.9675	13.3539	0.23	1
9	Ban Hua Laem Chaoloa	Samet	Muang	Chonburi	100.9651	13.3343	0.23	1
10	Bangsaen Beach 3	Saensuk	Muang	Chonburi	100.9242	13.2636	0.20	1
11	Bangsaen Beach 4	Saensuk	Muang	Chonburi	100.9047	13.2925	0.25	1
12	Ban Sri Phalo	Nong Mai Daeng	Muang	Chonburi	100.9866	13.4113	0.21	1
13	Ban Teenkhao	Nong Mai Daeng	Muang	Chonburi	101.0025	13.4004	0.20	1
14	Beachfront Commujnity (Ang Sila Tambon Municipality)	Ang Sila	Muang	Chonburi	100.9228	13.3406	0.21	1
15	Laem Chabang Deep Seaport (Laem Chabang Tambon	Thung Sukla	Sri Rach	Chonburi	100.8731	13.0536	0.18	1
	Municipality)							
16	Oil Refineray Plant	Thung Sukla	Sri Rach	Chonburi	100.8750	13.1097	0.22	1
17	Bangsaen Beach 1 (Bangphra Tambon Municipality)	Bangphra	Sri Rach	Chonburi	100.9339	13.2089	0.22	1
18	Bangsaen Beach 2	Bangphra	Sri Rach	Chonburi	100.9325	13.2281	0.21	1
19	Ban Talat Mai	Bangphra	Sri Rach	Chonburi	100.9388	13.2205	0.22	1
20	Ban Rai S. R.	Bangphra	Sri Rach	Chonburi	100.9413	13.2004	0.20	1
21	Ban Rai Din Daeng	Bangphra	Sri Rach	Chonburi	100.9384	13.1872	0.20	1
22	Ban Hinphoeng	Bangphra	Sri Rach	Chonburi	100.9430	13.2234	0.17	1
23	Chomtien Beach Pattaya (N Chomtien Tambon	Na Chomtien	Sattahip	Chonburi	100.8978	12.8472	0.15	1
	Municipality)							
24	Ban Na Chomtien	Na Chomtien	Sattahip	Chonburi	100.9151	12.8526	0.16	1
25	Ban Nammoa	Na Chomtien	Sattahip	Chonburi	100.9159	12.8464	0.19	1
26	Ban Hinwong	Na Chomtien	Sattahip	Chonburi	100.9240	12.7984	0.16	1
27	Ban Watkhao Bamphenbun	Na Chomtien	Sattahip	Chonburi	100.9198	12.7793	0.16	1
28	Ban Khlong Namchai	Na Chomtien	Sattahip	Chonburi	100.9187	12.8348	0.15	1
29	Bang Sarey Bay (Bang Sarey Tambon Municipality)	Bang Sarey	Sattahip	Chonburi	100.8864	12.7650	0.16	1
30	Ban Noen Samakkhi	Bang Sarey	Sattahip	Chonburi	100.9135	12.7644	0.16	1
31	Ban Kledkaew	Bang Sarey	Sattahip	Chonburi	100.8818	12.7590	0.18	1
32	Sattahip Nvy Base	Sattahip	Sattahip	Chonburi	100.9100	12.6256	0.30	1
33	Bang Sarey Fishing Communicty (Sattahip Tambon	Sattahip	Sattahip	Chonburi	100.9008	12.6608	0.35	1
	Municipality)							
34	Ban Talat Sattahip	Sattahip	Sattahip	Chonburi	100.8950	12.6649	0.36	1
35	Ban Talat Sattahip	Sattahip	Sattahip	Chonburi	100.8948	12.6675	0.36	1
36	Ban Payup	Sattahip	Sattahip	Chonburi	100.9003	12.6797	0.34	1
37	Samaesan Cape	Samaesan	Sattahip	Chonburi	100.9706	12.5983	0.36	1
38	Ban Chong Samaesan	Samaesan	Sattahip	Chonburi	100.9582	12.6024	0.40	1
39	Ban Nong Namkhem	Samaesan	Sattahip	Chonburi	100.9429	12.6068	0.60	1
40	Ban Hua Laem Chaoloa	Samaesan	Sattahip	Chonburi	100.9607	12.6002	0.38	1
41	Ban Nong Krachong	Samaesan	Sattahip	Chonburi	100.9524	12.6107	0.38	1

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No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
97 Tsunami Risk Villges/Locations in 20 Tambons, 6 Districts of Chumphon Province								
1	Tako River Mouth	Pak Tako	Thung Tako	Chumphon	99.1533	10.0956	0.28	1
2	Ban Paknam Tako	Pak Tako	Thung Tako	Chumphon	99.1348	10.1338	0.30	1
3	Ban Nong Maikaen	Pak Tako	Thung Tako	Chumphon	99.1345	10.1048	0.28	1
4	Ban Ao Mamuang	Pak Tako	Thung Tako	Chumphon	99.1516	10.1460	0.27	1
5	Ban Koh Kaew	Pak Tako	Thung Tako	Chumphon	99.1418	10.0757	0.28	1
6	Ban Ratano Kosai	Pak Tako	Thung Tako	Chumphon	99.1667	10.1503	0.28	1
7	Thaen Cape	Chumkho	Pathiew	Chumphon	99.3683	10.6694	0.25	1
8	Ban Laem Thaen	Chumkho	Pathiew	Chumphon	99.3512	10.6883	0.24	1
9	Ban Bangchak	Chumkho	Pathiew	Chumphon	99.4010	10.7608	0.41	1
10	Ban Bormao	Chumkho	Pathiew	Chumphon	99.3673	10.7087	0.46	1
11	Ban Nathap	Bang Son	Pathiew	Chumphon	99.3232	10.6763	0.39	1
12	Ban Don Takhien	Bang Son	Pathiew	Chumphon	99.3239	10.6874	0.35	1
13	Ban Koh Samet	Bang Son	Pathiew	Chumphon	99.3161	10.6830	0.25	1
14	Ban Bang Siep	Bang Son	Pathiew	Chumphon	99.3030	10.6710	0.24	1
15	Ban Laem Yang	Bang Son	Pathiew	Chumphon	99.3065	10.6540	0.24	1
16	Ban Thung Maha	Pakkhlong	Pathiew	Chumphon	99.4313	10.8579	0.46	1
17	Ban Bo Samnrong 3	Pakkhlong	Pathiew	Chumphon	99.4548	10.8764	0.47	1
18	Ban Tham Thong	Pakkhlong	Pathiew	Chumphon	99.5004	10.9136	0.38	1
19	Ban Namphee	Pakkhlong	Pathiew	Chumphon	99.4725	10.9695	0.55	1
20	Ban Bonrai	Pakkhlong	Pathiew	Chumphon	99.4276	10.8484	0.43	1
21	Ban Tha Aed	Pakkhlong	Pathiew	Chumphon	99.4838	10.8930	0.28	1
22	Thung Wualan Bay	Saphli	Pathiew	Chumphon	99.2825	10.5936	0.34	1
23	Ban Nong Plalai	Saphli	Pathiew	Chumphon	99.2736	10.5823	0.36	1
24	Ban Thung Wualan	Saphli	Pathiew	Chumphon	99.2703	10.5606	0.36	1
25	Ban Huai Ta - onBan Pak Mahat	Saphli	Pathiew	Chumphon	99.2743	10.6172	0.36	1
26	Chumphon River Mouth 1	Thayang	Muang	Chumphon	99.2417	10.4506	0.23	1
27	Ban Bang Charoen	Thayang	Muang	Chumphon	99.1940	10.3833	0.19	1
28	Ban Pak Mahat	Thayang	Muang	Chumphon	99.2287	10.4939	0.32	1
29	Ban Thayang	Thayang	Muang	Chumphon	99.2153	10.4539	0.28	1
30	Ban Nua	Thayang	Muang	Chumphon	99.2161	10.4663	0.27	1
31	Ban U - Tapao	Thayang	Muang	Chumphon	99.2145	10.4799	0.31	1
32	Ban Hua Laem Chaoloa	Thayang	Muang	Chumphon	99.2206	10.4967	0.32	1
33	Ban Khoson	Thayang	Muang	Chumphon	99.2232	10.4606	0.27	1
34	Ban Rongnoi	Thayang	Muang	Chumphon	99.2308	10.4514	0.30	1
35	Ban Bangtum	Thayang	Muang	Chumphon	99.2265	10.4692	0.30	1
36	Ban Huro	Na Cha - Ang	Muang	Chumphon	99.2295	10.5216	0.32	1
37	Ban Don - nao	Na Cha - Ang	Muang	Chumphon	99.2465	10.5040	0.33	1
38	Ban Sam Siem	Na Cha - Ang	Muang	Chumphon	99.2587	10.5535	0.27	1
39	Ban Thap Takhien	Na Cha - Ang	Muang	Chumphon	99.2191	10.5299	0.33	1
40	Ban Hua Laem Chaoloa	Na Thung	Muang	Chumphon	99.2439	10.4955	0.21	1
41	Ban Don Thrakaew	Na Thung	Muang	Chumphon	99.2117	10.4971	0.32	1
42	Ban Yangyuan	Na Thung	Muang	Chumphon	99.2237	10.5118	0.35	1
43	Ban Pakkhlong Phanangtak	Na Thung	Muang	Chumphon	99.2532	10.5068	0.30	1
44	Chumphon River Mouth 2	Paknam	Muang	Chumphon	99.2539	10.4439	0.27	1
45	Ban Koh Samet	Paknam	Muang	Chumphon	99.2948	10.4397	0.23	1
46	Ban Ko Moo	Paknam	Muang	Chumphon	99.2588	10.4272	0.35	1
47	Ban Koh 1	Paknam	Muang	Chumphon	99.2322	10.4331	0.31	1
48	Ban Chatsan	Paknam	Muang	Chumphon	99.2494	10.4277	0.28	1
49	Ban Matsi	Paknam	Muang	Chumphon	99.2526	10.4275	0.26	1
50	Ban Choeng Kra	Wisai Nua	Muang	Chumphon	99.1407	10.3320	0.20	1
51	Ban Saitu	Wisai Nua	Muang	Chumphon	99.1422	10.3368	0.21	1

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No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
52	Ban Rhang Daeng	Hadthrai Ri	Muang	Chumphon	99.2738	10.4103	0.30	1
53	Ban I - lek	Hadthrai Ri	Muang	Chumphon	99.2296	10.3784	0.23	1
54	Ban Thung Makham	Hadthrai Ri	Muang	Chumphon	99.2571	10.3652	0.19	1
55	Ban Donphlup	Hadthrai Ri	Muang	Chumphon	99.2702	10.3956	0.30	1
56	Ban Tha Corakhay	Hadthrai Ri	Muang	Chumphon	99.2383	10.3474	0.19	1
57	Ban Hadthrai Ri	Hadthrai Ri	Muang	Chumphon	99.2773	10.4022	0.38	1
58	Ban Hadthrai Ri	Hadthrai Ri	Muang	Chumphon	99.2749	10.3845	0.18	1
59	Ban Paknam Lamaae	Lamae	Lamae	Chumphon	99.1335	9.7912	0.24	1
60	Ban Hadsung	Lamae	Lamae	Chumphon	99.1233	9.7976	0.23	1
61	Ban Bang Hora	Lamae	Lamae	Chumphon	99.1244	9.8101	0.18	1
62	Ban Laem Santi	Lamae	Lamae	Chumphon	99.1259	9.7755	0.26	1
63	Ban Don Khae	Suan Taeng	Lamae	Chumphon	99.1410	9.7163	0.19	1
64	Ban Nongbua	Suan Taeng	Lamae	Chumphon	99.1432	9.7427	0.20	1
65	Ban Thale Ngam	Suan Taeng	Lamae	Chumphon	99.1480	9.7256	0.20	1
66	Ban Thongkom Yai	Dan Sawi	Sawi	Chumphon	99.2007	10.2246	0.20	1
67	Ban Thong Tanote	Dan Sawi	Sawi	Chumphon	99.2065	10.2397	0.18	1
68	Ban Bo Kha	Dan Sawi	Sawi	Chumphon	99.2032	10.2689	0.17	1
69	Ban Thong Kreng	Dan Sawi	Sawi	Chumphon	99.1907	10.2586	0.18	1
70	Ban Siap Yuan	Dan Sawi	Sawi	Chumphon	99.1857	10.2740	0.18	1
71	Ban Nai Rai	Dan Sawi	Sawi	Chumphon	99.1734	10.2690	0.19	1
72	Ban Na Tham	Dan Sawi	Sawi	Chumphon	99.1773	10.2654	0.18	1
73	Ban Klang Na	Dan Sawi	Sawi	Chumphon	99.1675	10.2627	0.19	1
74	Ban Ao Makkham	Dan Sawi	Sawi	Chumphon	99.2308	10.2257	0.25	1
75	Ban Hadthrai Ri	Tha Hin	Sawi	Chumphon	99.1832	10.1949	0.24	1
76	Ban Rai Lang	Pak Praek	Sawi	Chumphon	99.1376	10.2907	0.23	1
77	Ban Bang Man	Na Phaya	Lang Suan	Chumphon	99.1325	9.8371	0.18	1
78	Ban Huay Kruat	Na Phaya	Lang Suan	Chumphon	99.1307	9.8427	0.19	1
79	Ban Bang Namchuet 1	Bang Namchuet	Lang Suan	Chumphon	99.1491	9.9694	0.24	1
80	Ban Bang Namchuet 2	Bang Namchuet	Lang Suan	Chumphon	99.1481	9.9800	0.27	1
81	Ban Laem Yang	Bang Namchuet	Lang Suan	Chumphon	99.1502	10.0154	0.35	1
82	Ban Bang Yi	Bang Namchuet	Lang Suan	Chumphon	99.1497	9.9974	0.35	1
83	Ban Nong Pho	Bang Namchuet	Lang Suan	Chumphon	99.1327	9.9796	0.27	1
84	Ban Chaikhao	Bang Namchuet	Lang Suan	Chumphon	99.1407	9.9883	0.30	1
85	Ban Bang Namchuet 3	Bang Namchuet	Lang Suan	Chumphon	99.1423	9.9768	0.27	1
86	Ban Thong Khrok	Bang Namchuet	Lang Suan	Chumphon	99.1604	10.0510	0.25	1
87	Ban Koh Phithak	Bang Namchuet	Lang Suan	Chumphon	99.1868	10.0516	0.23	1
88	Ban Nong Thongdi	Bang Maphrao	Lang Suan	Chumphon	99.1545	9.9140	0.19	1
89	Ban Ratbamrung	Bang Maphrao	Lang Suan	Chumphon	99.1525	9.8959	0.19	1
90	Ban Nong Thongdi 2	Bang Maphrao	Lang Suan	Chumphon	99.1595	9.9267	0.20	1
91	Ban Hua Laem Chaoloa	Bang Maphrao	Lang Suan	Chumphon	99.1568	9.9421	0.21	1
92	Ban Khlang Ao 1	Bang Maphrao	Lang Suan	Chumphon	99.1442	9.8949	0.19	1
93	Ban Khlang Ao 2	Bang Maphrao	Lang Suan	Chumphon	99.1456	9.9049	0.19	1
94	Langsuan River Mouth	Pak Nam	Lang Suan	Chumphon	99.1642	9.9494	0.23	1
95	Ban Hin Sam Kon	Pak Nam	Lang Suan	Chumphon	99.1486	9.9557	0.23	1
96	Ban Nong Sai	Pak Nam	Lang Suan	Chumphon	99.1523	9.9573	0.23	1
97	Ban Thung Lang	Pak Nam	Lang Suan	Chumphon	99.1469	9.9543	0.23	1

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No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
88 Tsunami risk Villages/Locations in 16 Tambons, 6 Districts of Trat Province								
1	Taphao Bay	Koh Kut	Koh Kut Sub District	Trat	102.5303	11.6528	0.47	1
2	Ban Khlong Hindam	Koh Kut	Koh Kut Sub District	Trat	102.5317	11.6568	0.60	1
3	Ban Khlong Chao	Koh Kut	Koh Kut Sub District	Trat	102.5477	11.6223	0.44	1
4	Ban Ao Yai	Koh Kut	Koh Kut Sub District	Trat	102.5868	11.6084	0.20	1
5	Ban Salak Aun	Koh Kut	Koh Kut Sub District	Trat	102.5314	11.6962	0.41	1
6	Ban Ao Phrao	Koh Kut	Koh Kut Sub District	Trat	102.5659	11.5978	0.51	1
7	Ban Ao Salat	Koh Kut	Koh Kut Sub District	Trat	102.5751	11.7066	0.32	1
8	Ban Ao Nit	Koh Mak	Koh Kut Sub District	Trat	102.4801	11.8121	0.41	1
9	Ban Laem Son	Koh Mak	Koh Kut Sub District	Trat	102.4794	11.8295	0.16	1
10	Ban Khlong Nonsi	Koh Chang	Koh Chang Sub District	Trat	102.3543	12.1073	0.14	1
11	Ban Dan Mai	Koh Chang	Koh Chang Sub District	Trat	102.3510	12.1100	0.14	1
12	Ban Khlong Son	Koh Chang	Koh Chang Sub District	Trat	102.2733	12.1335	0.24	1
13	Ban Khlong Phrao	Koh Chang	Koh Chang Sub District	Trat	102.2947	12.0526	0.36	1
14	Thraiyao Bay	Koh Chang Tai	Koh Chang Sub District	Trat	102.4236	11.9611	0.17	1
15	Bangbao Fishing Village	Koh Chang Tai	Koh Chang Sub District	Trat	102.3136	11.9675	0.37	1
16	Salakphet Bay	Koh Chang Tai	Koh Chang Sub District	Trat	102.3747	11.9939	0.44	1
17	Ngam Island	Koh Chang Tai	Koh Chang Sub District	Trat	102.4447	11.9447	0.28	1
18	Ban Bangbao	Koh Chang Tai	Koh Chang Sub District	Trat	102.3128	11.9729	0.34	1
19	Ban Salakphet	Koh Chang Tai	Koh Chang Sub District	Trat	102.3695	11.9979	0.21	1
20	Ban Chek Bae	Koh Chang Tai	Koh Chang Sub District	Trat	102.3966	11.9882	0.26	1
21	Ban Salak Khok	Koh Chang Tai	Koh Chang Sub District	Trat	102.3823	12.0233	0.14	1
22	Ban Salakphet Nua	Koh Chang Tai	Koh Chang Sub District	Trat	102.3673	12.0124	0.21	1
23	Ban AngKrapong	Tha Som	Khao Saming	Trat	102.2877	12.2841	0.38	1
24	Khlong Yai Tambon Municipality	Khlong Yai	Khlong Yai	Trat	102.8800	11.7619	0.24	1
25	Ban Check Luk	Khlong Yai	Khlong Yai	Trat	102.8667	11.7985	0.24	1
26	Ban Khong Yai	Khlong Yai	Khlong Yai	Trat	102.8855	11.7828	0.27	1
27	Ban Khlong Chak	Khlong Yai	Khlong Yai	Trat	102.8851	11.7721	0.27	1
28	Ban Khlong Saba	Khlong Yai	Khlong Yai	Trat	102.8941	11.7608	0.27	1
29	Ban Tanuk	Khlong Yai	Khlong Yai	Trat	102.8399	11.8307	0.34	1
30	Ban Bang In	Khlong Yai	Khlong Yai	Trat	102.8747	11.7873	0.27	1
31	Ban Suan Maphrao	Khlong Yai	Khlong Yai	Trat	102.8808	11.7804	0.27	1
32	Ban Khlong Chak	Khlong Yai	Khlong Yai	Trat	102.8938	11.7647	0.30	1
33	Ban Romyen	Khlong Yai	Khlong Yai	Trat	102.8896	11.7660	0.27	1
34	Ban Mairut	Mairut	Khlong Yai	Trat	102.7804	11.9263	0.28	1
35	Ban Nong Muang	Mairut	Khlong Yai	Trat	102.8156	11.8770	0.28	1
36	Ban Huang Som	Mairut	Khlong Yai	Trat	102.8276	11.8487	0.30	1
37	Ban Khlong Manao	Mairut	Khlong Yai	Trat	102.7871	11.9616	0.28	1
38	Ban Huay Bon	Mairut	Khlong Yai	Trat	102.8121	11.8874	0.26	1
39	Ban Ruam Suk	Mairut	Khlong Yai	Trat	102.7954	11.9343	0.26	1
40	Had Lek Tambon Municipality	Had Lek	Khlong Yai	Trat	102.8944	11.7283	0.25	1
41	Ban Khotthrai	Had Lek	Khlong Yai	Trat	102.9078	11.7045	0.24	1
42	Ban Khlong Hindam	Had Lek	Khlong Yai	Trat	102.9063	11.6929	0.22	1
43	Ban Had Lek	Had Lek	Khlong Yai	Trat	102.9083	11.6520	0.29	1
44	Ban Noen Tamaew	Wang Krachae	Muang	Trat	102.5530	12.2095	0.25	1
45	Ban Laem Hin	Nong Khansong	Muang	Trat	102.5600	12.1786	0.22	1
46	Ban Tha Ranae	Nong Khansong	Muang	Trat	102.5510	12.1820	0.22	1
47	Ban Nong Khamsong Lang	Nong Khansong	Muang	Trat	102.5457	12.1811	0.22	1
48	Ban Laem Po	Huang Namkhao	Muang	Trat	102.5577	12.1429	0.13	1
49	Ban Khlong Lot	Huang Namkhao	Muang	Trat	102.5412	12.1258	0.20	1
50	Ban Huang Namkhao	Huang Namkhao	Muang	Trat	102.5539	12.1267	0.20	1
51	Ban Khanna	Huang Namkhao	Muang	Trat	102.5607	12.1158	0.19	1

Table A - 2 Name List of 907 Tsunami Risk Villages/Locations in 222 Tambons, 70 Districts of 16 Provinces on Guld of Thailand Coast.

No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
52	Ban Ao Rawa	Laem Klat	Muang	Trat	102.6464	12.1367	0.18	1
53	Ban Laem Khlat	Laem Klat	Muang	Trat	102.6451	12.1430	0.18	1
54	Ban Song Hong	Laem Klat	Muang	Trat	102.6717	12.1347	0.16	1
55	Ban Saphan Hin	Laem Klat	Muang	Trat	102.7052	12.0974	0.14	1
56	Ban Khlong Son	Laem Klat	Muang	Trat	102.7306	12.0673	0.16	1
57	Ban Tha Sen	Laem Klat	Muang	Trat	102.6977	12.1130	0.15	1
58	Ban Khlong Muang	Laem Klat	Muang	Trat	102.7708	12.0223	0.19	1
59	Ban Chainoen	Laem Klat	Muang	Trat	102.6620	12.1280	0.17	1
60	Ban Ao Yai	Ao Yai	Muang	Trat	102.5558	12.0961	0.18	1
61	Ban Ao Cho	Ao Yai	Muang	Trat	102.5527	12.0677	0.16	1
62	Ban Laem Yang	Ao Yai	Muang	Trat	102.5478	12.0927	0.15	1
63	Ban Laem Phrao	Ao Yai	Muang	Trat	102.5833	12.0660	0.18	1
64	Ban Ao Kham	Ao Yai	Muang	Trat	102.5762	12.0537	0.14	1
65	Ban Laem Sok	Ao Yai	Muang	Trat	102.5873	12.0533	0.15	1
66	Ban Khlong Yai	Khlong Yai	Laem Ngop	Trat	102.3797	12.1896	0.17	1
67	Ban Nong Tian	Khlong Yai	Laem Ngop	Trat	102.3898	12.1981	0.17	1
68	Ban Noen Din Daeng	Khlong Yai	Laem Ngop	Trat	102.3685	12.2086	0.16	1
69	Ban Laem Uan	Khlong Yai	Laem Ngop	Trat	102.3487	12.2029	0.16	1
70	Ban Thammachat Bon	Khlong Yai	Laem Ngop	Trat	102.3283	12.2032	0.16	1
71	Ban Thammachat Lang	Khlong Yai	Laem Ngop	Trat	102.3119	12.1887	0.20	1
72	Ban Hin Dat	Khlong Yai	Laem Ngop	Trat	102.3742	12.1950	0.16	1
73	Ban Ao Tankhu	Bang Pit	Laem Ngop	Trat	102.2833	12.2074	0.29	1
74	Ban Bang Pit Lang	Bang Pit	Laem Ngop	Trat	102.3036	12.2142	0.20	1
75	Ban Bang Pit Bon	Bang Pit	Laem Ngop	Trat	102.3025	12.2309	0.20	1
76	Ban Bang Kradan	Bang Pit	Laem Ngop	Trat	102.2846	12.2607	0.21	1
77	Ban Pakkhlong	Bang Pit	Laem Ngop	Trat	102.2647	12.2709	0.33	1
78	Ban Hindat	Bang Pit	Laem Ngop	Trat	102.2803	12.2730	0.38	1
79	Ban Chonglom	Bang Pit	Laem Ngop	Trat	102.2993	12.2259	0.20	1
80	Ban Phrong Son	Bang Pit	Laem Ngop	Trat	102.3030	12.2485	0.19	1
81	Laem Ngop Pier (Laem Ngop Municipality)	Laem Ngop	Laem Ngop	Trat	102.3875	12.1694	0.17	1
82	Ban Laem Ngop	Laem Ngop	Laem Ngop	Trat	102.3992	12.1758	0.15	1
83	Ban Khlong Po	Laem Ngop	Laem Ngop	Trat	102.4105	12.1794	0.13	1
84	Ban Laem Thonglang	Laem Ngop	Laem Ngop	Trat	102.4478	12.1734	0.14	1
85	Ban Hua Hin	Laem Ngop	Laem Ngop	Trat	102.4318	12.1733	0.13	1
86	Ban Laem Thonglang	Laem Ngop	Laem Ngop	Trat	102.4218	12.1712	0.13	1
87	Ban Khlong	Laem Ngop	Laem Ngop	Trat	102.4015	12.1797	0.15	1
88	Ban Nong Prue	Laem Ngop	Laem Ngop	Trat	102.3880	12.1835	0.17	1

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No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
จังหวัดนครศรีธรรมราช พื้นที่เสี่ยงภัย 114 แห่ง 23 ตำบล 6 อำเภอ								
1	Ban Phang Maphrao	Khanom	Khanom	NakhonSri Thammarat	99.8672	9.1959	0.72	1
2	Ban Hua Thoe	Khanom	Khanom	NakhonSri Thammarat	99.8572	9.1886	0.69	1
3	ban Siyaek Naisai	Khanom	Khanom	NakhonSri Thammarat	99.8576	9.1814	0.67	1
4	Ban Pho Krot	Khanom	Khanom	NakhonSri Thammarat	99.8592	9.1728	0.76	1
5	Ban Na Dan	Khanom	Khanom	NakhonSri Thammarat	99.8714	9.1664	0.77	1
6	Ban Pret	Khanom	Khanom	NakhonSri Thammarat	99.8632	9.1447	0.76	1
7	Ban Nai Plao	Khanom	Khanom	NakhonSri Thammarat	99.8767	9.1258	0.77	1
8	Ban Tha Sampao	Khanom	Khanom	NakhonSri Thammarat	99.8588	9.1617	0.77	1
9	Khanom Gas Separation Plant	Khanom	Khanom	NakhonSri Thammarat	99.8658	9.2394	0.53	1
10	Khanom Bay	Khanom	Khanom	NakhonSri Thammarat	99.8778	9.1800	0.65	1
11	Naiplao Beach	Khanom	Khanom	NakhonSri Thammarat	99.8808	9.1375	0.76	1
12	Phlaidam Beach	Khanom	Khanom	NakhonSri Thammarat	99.8839	9.1286	0.69	1
13	Ban Thong Khwaeng Plao	Thon Nian	Khanom	NakhonSri Thammarat	99.8396	9.2854	0.37	1
14	Ban thong Note	Thon Nian	Khanom	NakhonSri Thammarat	99.8361	9.2989	0.29	1
15	Ban Laem Thap	Thon Nian	Khanom	NakhonSri Thammarat	99.8124	9.2933	0.15	1
16	Ban Talet	Thon Nian	Khanom	NakhonSri Thammarat	99.7870	9.3052	0.16	1
17	Ban Tha	Thon Nian	Khanom	NakhonSri Thammarat	99.8328	9.2689	0.14	1
18	Ban Bang Phang	Thon Nian	Khanom	NakhonSri Thammarat	99.8568	9.2338	0.67	1
19	Ban Pak Duat	Klai	Tha Sala	NakhonSri Thammarat	99.9177	8.8588	0.47	1
20	Ban Bang San	Klai	Tha Sala	NakhonSri Thammarat	99.9147	8.8155	0.47	1
21	Ban Hin Ok	Klai	Tha Sala	NakhonSri Thammarat	99.9084	8.8461	0.45	1
22	Ban Nairai	Klai	Tha Sala	NakhonSri Thammarat	99.9131	8.8088	0.47	1
23	Ban Thang Sai	Klai	Tha Sala	NakhonSri Thammarat	99.9233	8.8232	0.48	1
24	Talat Bangsuan Community	Klai	Tha Sala	NakhonSri Thammarat	99.9328	8.8125	0.48	1
25	Ban thang Khun	Ban Khun	Tha Sala	NakhonSri Thammarat	99.9430	8.6993	0.44	1
26	Ban Khain Dam	Ban Khun	Tha Sala	NakhonSri Thammarat	99.9341	8.7446	0.46	1
27	Ban roe	Ban Khun	Tha Sala	NakhonSri Thammarat	99.9356	8.7557	0.46	1
28	Ban Sakha	Ban Khun	Tha Sala	NakhonSri Thammarat	99.9266	8.7260	0.46	1
29	Ban Sikhak	Ban Khun	Tha Sala	NakhonSri Thammarat	99.9266	8.6963	0.44	1
30	Ban Tha Sala	Tha Sala	Tha Sala	NakhonSri Thammarat	99.9312	8.6625	0.45	1
31	Ban Thasung bon	Tha Sala	Tha Sala	NakhonSri Thammarat	99.9446	8.6732	0.48	1
32	Ban Nai Thung	Tha Sala	Tha Sala	NakhonSri Thammarat	99.9450	8.6453	0.69	1
33	Ban Srabua	Tha Sala	Tha Sala	NakhonSri Thammarat	99.9500	8.6306	0.48	1
34	Ban Na Thap	Tha Sala	Tha Sala	NakhonSri Thammarat	99.9501	8.6002	0.48	1
35	Ban Paknam Mai	Tha Sala	Tha Sala	NakhonSri Thammarat	99.9624	8.5904	0.45	1
36	Ban Dan Phasi	Tha Sala	Tha Sala	NakhonSri Thammarat	99.9469	8.6602	0.45	1
37	Ban Bo Non	Tha Sala	Tha Sala	NakhonSri Thammarat	99.9459	8.6849	0.46	1
38	Ban Phai Tha	Tha Sala	Tha Sala	NakhonSri Thammarat	99.9405	8.6666	0.45	1
39	Ban Nairai	Tha Sala	Tha Sala	NakhonSri Thammarat	99.9369	8.6635	0.45	1
40	Ban Nairai	Tha Sala	Tha Sala	NakhonSri Thammarat	99.9320	8.6818	0.45	1
41	Ban Laem	Tha Sala	Tha Sala	NakhonSri Thammarat	99.9613	8.5960	0.55	1
42	Ban Bang Toing	Tha Sala	Tha Sala	NakhonSri Thammarat	99.9469	8.6051	0.56	1
43	Tha Sala Tambon Municipiality nearby Community	Tha Sala	Tha Sala	NakhonSri Thammarat	99.9522	8.6692	0.45	1
44	Srabua Beach	Tha Sala	Tha Sala	NakhonSri Thammarat	99.9567	8.6264	0.69	1
45	Ban Roe	Sra Kaew	Tha Sala	NakhonSri Thammarat	99.9337	8.7656	0.44	1
46	Ban Khok Takian	Sa Kaew	Tha Sala	NakhonSri Thammarat	99.9319	8.7864	0.51	1
47	Ban Kapra	Sa Kaew	Tha Sala	NakhonSri Thammarat	99.9325	8.7702	0.45	1
48	Ban Hua Don	Kanap Nok	Pak Phanang	NakhonSri Thammarat	100.2710	8.2152	0.72	1
49	Ban Namthrap	Kanap Nok	Pak Phanang	NakhonSri Thammarat	100.2930	8.1824	0.55	1
50	Ban Hua Don	Kanap Nok	Pak Phanang	NakhonSri Thammarat	100.2710	8.2152	0.72	1
51	Ban Saeng Wiman	Khlong Noi	Pak Phanang	NakhonSri Thammarat	100.1011	8.3952	0.37	1

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No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
52	Ban Khot Noen	ต.คลองน้อย	Pak Phanang	NakhonSri Thammarat	100.1011	8.4012	0.37	1
53	Ban Tha Wen	Tha Phaya	Pak Phanang	NakhonSri Thammarat	100.2529	8.2979	0.63	1
54	Ban thuat	ต.ท่าพญา	Pak Phanang	NakhonSri Thammarat	100.2684	8.2699	0.67	1
55	Ban Klang Na	ต.ท่าพญา	Pak Phanang	NakhonSri Thammarat	100.2544	8.2664	0.61	1
56	Ban Koh Kang	ต.ท่าพญา	Pak Phanang	NakhonSri Thammarat	100.2628	8.2503	0.65	1
57	Ban Rim Khuen	ต.ท่าพญา	Pak Phanang	NakhonSri Thammarat	100.2745	8.2407	0.62	1
58	Ban Bang Luk	Pak Phanang	Pak Phanang	NakhonSri Thammarat	100.1427	8.3654	0.43	1
		(East Bank)						
59	Ban Noen	Pak Phanang	Pak Phanang	NakhonSri Thammarat	100.1583	8.3624	0.48	1
		(East Bank)						
60	ban Chai Thale	Pak Phanang	Pak Phanang	NakhonSri Thammarat	100.2335	8.3666	0.85	1
		(East Bank)						
61	Ban Bangwam	Pak Phanang	Pak Phanang	NakhonSri Thammarat	100.2359	8.3516	0.85	1
		(East Bank)						
62	Ban Noen Nam Hak	Pak Phanang	อ.ปากพนัง	NakhonSri Thammarat	100.2196	8.4154	1.04	1
		(East Bank)						
63	Ban Plai Thrai	Laem Talumpuk	Pak Phanang	NakhonSri Thammarat	100.1609	8.5042	0.53	1
64	Ban Laem Talumpuk	Laem Talumpuk	Pak Phanang	NakhonSri Thammarat	100.1812	8.4907	0.68	1
65	Ban Laem Talumpuk	Laem Talumpuk	Pak Phanang	NakhonSri Thammarat	100.1874	8.4817	0.73	1
66	Ban Plai Thrai	Laem Talumpuk	Pak Phanang	NakhonSri Thammarat	100.1420	8.5162	0.55	1
67	Talumpuk Cape	Laem Talumpuk	Pak Phanang	NakhonSri Thammarat	100.1269	8.5289	0.49	1
68	Ban Pak Phaya	Tha Sak	Muang	NakhonSri Thammarat	100.0355	8.5046	0.58	1
69	Ban Paknam Pak Phaya	Tha Sak	Muang	NakhonSri Thammarat	100.0355	8.5085	0.50	1
70	Ban Paknam Pak Phaya	Tha Sak	Muang	NakhonSri Thammarat	100.0424	8.5132	0.59	1
71	Ban Rai Bon	Tha Rai	Muang	NakhonSri Thammarat	100.0751	8.4215	0.51	1
72	Ban Noen	Bang Chak	Muang	NakhonSri Thammarat	100.0914	8.3984	0.47	1
73	Ban Bang Yai	Bang Chak	Muang	NakhonSri Thammarat	100.0770	8.4154	0.51	1
74	Ban Pak Nakhon Community	Pak Nakhon	Muang	NakhonSri Thammarat	100.0656	8.4747	0.56	1
75	Ban Pak Phaying	Pak Phun	Muang	NakhonSri Thammarat	99.9536	8.5902	0.59	1
76	Ban Huay Thrai	Pak Phun	Muang	NakhonSri Thammarat	99.9619	8.5749	0.69	1
77	Ban Pak Phaying	Pak Phun	Muang	NakhonSri Thammarat	99.9573	8.5925	0.55	1
78	Ban Khlong Kao	Pak Phun	Muang	NakhonSri Thammarat	99.9559	8.5804	0.69	1
79	Ban Tha Chiao	Thung Prung	Sichon	NakhonSri Thammarat	99.9121	8.9649	0.57	1
80	Ban Plai Thon	Thung Prung	Sichon	NakhonSri Thammarat	99.9110	8.9899	0.65	1
81	Ban thanon Phat Chom Phibun	Thung Prung	Sichon	NakhonSri Thammarat	99.8965	8.9700	0.57	1
82	Ban Thung Kha	Thung Prung	Sichon	NakhonSri Thammarat	99.8997	8.9371	0.56	1
83	Ban Tha Chiao	Thung Prung	Sichon	NakhonSri Thammarat	99.9073	8.9335	0.56	1
84	Ban Phai Tha	Thung Sai	Sichon	NakhonSri Thammarat	99.9129	9.0195	0.62	1
85	Ban Thung Sai	Thung Sai	Sichon	NakhonSri Thammarat	99.9013	9.0473	0.62	1
86	Ban Paknam Sichon	Sichon	Sichon	NakhonSri Thammarat	99.9119	9.0027	0.61	1
87	Ban Nang Chang	Sichon	Sichon	NakhonSri Thammarat	99.9021	9.0010	0.61	1
88	Sichon River Mouth (Sichon Tambon Municipality)	Sichon	Sichon	NakhonSri Thammarat	99.9203	9.0169	0.67	1
89	Ban Khun Chan	Sao Phao	Sichon	NakhonSri Thammarat	99.9079	8.8897	0.43	1
90	Ban Sao Phao	Sao Phao	Sichon	NakhonSri Thammarat	99.9151	8.8891	0.43	1
91	Ban Ratchaphruk	Sao Phao	Sichon	NakhonSri Thammarat	99.9010	8.8819	0.42	1
92	Ban Ton Raing	Sao Phao	Sichon	NakhonSri Thammarat	99.8993	8.9114	0.47	1
93	Ban Tha Chiao	Sao Phao	Sichon	NakhonSri Thammarat	99.8992	8.9072	0.45	1
94	Ban Bang Di	Sao Phao	Sichon	NakhonSri Thammarat	99.9068	8.9094	0.47	1
95	Ban Na Lae	Sao Phao	Sichon	NakhonSri Thammarat	99.9026	8.8721	0.43	1
96	Ban Hin Ngam	Sao Phao	Sichon	NakhonSri Thammarat	99.9175	8.9228	0.42	1
97	Ban Bang Ding	Koh Phet	Huasai	NakhonSri Thammarat	100.2910	8.1325	0.66	1
98	Ban Noen Nong Hong	Koh Phet	Huasai	NakhonSri Thammarat	100.2983	8.1384	0.66	1
99	Ban Huay Ai Rong	Koh Phet	Huasai	NakhonSri Thammarat	100.2997	8.1285	0.66	1
100	Ban Koh Phet	Koh Phet	Huasai	NakhonSri Thammarat	100.2953	8.1550	0.68	1
101	Ban Ton Son	Koh Phet	Huasai	NakhonSri Thammarat	100.3021	8.1029	0.70	1
102	Nong Mon Community	Koh Phet	Huasai	NakhonSri Thammarat	100.3033	8.1464	0.66	1

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No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
103	Ban Na Ston	Na Saton	Huasai	NakhonSri Thammarat	100.3063	8.0928	0.70	1
104	Ban Na Saton	Na Saton	Huasai	NakhonSri Thammarat	100.3083	8.0820	0.75	1
105	Ban Na San	Na Saton	Huasai	NakhonSri Thammarat	100.3170	8.0324	0.55	1
106	Ban Bangsai	Na Saton	Huasai	NakhonSri Thammarat	100.2941	8.0827	0.75	1
107	Ban Pak Rawa	Na Saton	Huasai	NakhonSri Thammarat	100.3219	7.9876	0.71	1
108	Ban Chim La	Na Saton	Huasai	NakhonSri Thammarat	100.3327	7.9383	0.68	1
109	Ban Na San	Na Saton	Huasai	NakhonSri Thammarat	100.3151	8.0440	0.70	1
110	Ban Koh Yao	Na Saton	Huasai	NakhonSri Thammarat	100.3152	8.0546	0.67	1
111	Ban Praek Muang	Na Saton	Huasai	NakhonSri Thammarat	100.3270	7.9788	0.62	1
112	Hua Ai Duan Community	Na Saton	Huasai	NakhonSri Thammarat	100.3125	8.0956	0.70	1
113	Bang Bo Community	Na Saton	Huasai	NakhonSri Thammarat	100.3303	7.9817	0.71	1
114	Huasai Tambon Municipality Community	Huasai	Huasai	NakhonSri Thammarat	100.3217	8.0375	0.70	1

Table A - 2 Name List of 907 Tsunami Risk Villages/Locations in 222 Tambons, 70 Districts of 16 Provinces on Guld of Thailand Coast.

No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
42 Tsunami Risk Villages/Locations in 6 Tambons, 2 Districts of Narathiwat Province								
1	Tak Bai Community, Narathiwat	Chehe	Tak Bai	Narathiwat	102.0869	6.2442	1.33	1
2	Tak Bai District Community	Chehe	Tak Bai	Narathiwat	102.0567	6.2678	1.26	1
3	Ban Talat Chehe	Chehe	Tak Bai	Narathiwat	102.0515	6.2591	1.74	1
4	Ban Bang Noi	Chehe	Tak Bai	Narathiwat	102.0412	6.2595	1.74	1
5	Ban Rai Bon	Chehe	Tak Bai	Narathiwat	102.0332	6.2660	1.74	1
6	Ban Koh Yao	Chehe	Tak Bai	Narathiwat	102.0562	6.2620	1.74	1
7	Ban Koh Sawat	Phraiwan	Tak Bai	Narathiwat	101.9710	6.3014	1.60	1
8	Ban Kubu	Phraiwan	Tak Bai	Narathiwat	101.9710	6.3168	1.52	1
9	Ban Sapom	Phraiwan	Tak Bai	Narathiwat	101.9213	6.3618	1.62	1
10	Ban Bung Chalam	Phraiwan	Tak Bai	Narathiwat	101.9699	6.3111	1.67	1
11	Ban Khok Maphuang	Sala Mai	Tak Bai	Narathiwat	102.0174	6.2789	1.75	1
12	Ban Sala Mai	Sala Mai	Tak Bai	Narathiwat	102.0026	6.2907	1.77	1
13	Ban Khlong Ton	Sala Mai	Tak Bai	Narathiwat	101.9923	6.3033	1.53	1
14	Ban Pula Che Mudo	Sala Mai	Tak Bai	Narathiwat	102.0148	6.2842	1.63	1
15	Ban Sala Chuek	Sala Mai	Tak Bai	Narathiwat	101.9859	6.2998	1.57	1
16	Ban Khlong Loei	Sala Mai	Tak Bai	Narathiwat	102.0010	6.2985	1.52	1
17	Thaksin Ratchaniwet Palace	Kalu Wo Nua	Muang	Narathiwat	101.9039	6.4014	1.33	1
18	Manao Bay	Kalu Wo Nua	Muang	Narathiwat	101.8475	6.4383	1.22	1
19	Ban bang Manao	Kalu Wo Nua	Muang	Narathiwat	101.8450	6.4294	1.48	1
20	Ban Khain Dam	Kalu Wo Nua	Muang	Narathiwat	101.8499	6.4199	1.74	1
21	Ban Khao Tanyong	Kalu Wo Nua	Muang	Narathiwat	101.8789	6.4133	1.60	1
22	Ban Mai	Kalu Wo Nua	Muang	Narathiwat	101.9028	6.3852	1.94	1
23	Ban Pula Kapa	Kalu Wo Nua	Muang	Narathiwat	101.8314	6.4334	1.60	1
24	Ban Khok Saya	Kalu Wo Nua	Muang	Narathiwat	101.8794	6.3904	1.94	1
25	Ban Pho Thong	Kalu Wo Nua	Muang	Narathiwat	101.9082	6.3597	1.62	1
26	Ban La Kho Pa Le	Kalu Wo Nua	Muang	Narathiwat	101.8891	6.3985	1.68	1
27	Ban Bu kit, Manao Bay	Kalu Wo Nua	Muang	Narathiwat	101.8552	6.4269	1.48	1
28	Ban Sapom	Kalu Wo Nua	Muang	Narathiwat	101.9109	6.3682	2.07	2
29	Narathat Beach	Hkhok Khian	Muang	Narathiwat	101.7928	6.4861	1.14	1
30	Ban Khok Phayom	Hkhok Khian	Muang	Narathiwat	101.7475	6.5436	1.19	1
31	Ban Khok Khian	Hkhok Khian	Muang	Narathiwat	101.7940	6.4688	1.47	1
32	Ban Khok Phayom	Hkhok Khian	Muang	Narathiwat	101.7865	6.4753	1.43	1
33	Ban Bue La Pe	Hkhok Khian	Muang	Narathiwat	101.7777	6.4805	1.29	1
34	Ban Hu Tae Tuwo	Hkhok Khian	Muang	Narathiwat	101.7550	6.5176	1.55	1
35	Ban Thon	Hkhok Khian	Muang	Narathiwat	101.7418	6.5373	1.34	1
36	Ban Sa Se Pu Te	Hkhok Khian	Muang	Narathiwat	101.7285	6.5637	1.37	1
37	Ban Khok Khilek	Hkhok Khian	Muang	Narathiwat	101.8127	6.4391	1.18	1
38	Ban thung Kong	Hkhok Khian	Muang	Narathiwat	101.7895	6.4583	1.13	1
39	Ban Thon Hile	Hkhok Khian	Muang	Narathiwat	101.7346	6.5488	1.51	1
40	Ban Thon Aman	Hkhok Khian	Muang	Narathiwat	101.7357	6.5366	1.19	1
41	Ban Thon Na Im	Hkhok Khian	Muang	Narathiwat	101.7456	6.5347	1.34	1
42	Narathiwat Muang Municipality	Bang Nak	Muang	Narathiwat	101.8228	6.4525	1.27	1

Table A - 2 Name List of 907 Tsunami Risk Villages/Locations in 222 Tambons, 70 Districts of 16 Provinces on Guld of Thailand Coast.

No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
80 Tsunami Risk Villages/locations in 24 Tambons, 8 Districts of Prachuab Khili Khan								
1	Sam Roi Yot National Park	Sam Roi Yot	Sam Roi Yot Sub District	Prachuab Khiri Khan	99.9861	12.2489	0.40	1
2	Ban Mai	Sam Roi Yot	Sam Roi Yot Sub District	Prachuab Khiri Khan	99.9806	12.3196	0.49	1
3	Ban Nong Khaoniew	Sam Roi Yot	Sam Roi Yot Sub District	Prachuab Khiri Khan	99.9699	12.2783	0.41	1
4	Ban Bang Pu	Sam Roi Yot	Sam Roi Yot Sub District	Prachuab Khiri Khan	100.0043	12.2058	0.40	1
5	Ban Nong Yai	Sam Roi Yot	Sam Roi Yot Sub District	Prachuab Khiri Khan	99.9800	12.3427	0.47	1
6	Ban Pho riang	Kui Nua	Kui Buri	Prachuab Khiri Khan	99.9084	12.0465	0.62	1
7	Ban Khok Rak	Kui Nua	Kui Buri	Prachuab Khiri Khan	99.9033	12.0529	0.42	1
8	Ban Khung Tanote	Khao Daeng	Kui Buri	Prachuab Khiri Khan	100.0062	12.1754	0.41	1
9	Ban Khao Daeng	Khao Daeng	Kui Buri	Prachuab Khiri Khan	99.9659	12.1374	0.52	1
10	Ban Thung Noi	Khao Daeng	Kui Buri	Prachuab Khiri Khan	99.9533	12.0890	0.80	1
11	Ban Thung Pradu	Thap Sakae	Thap Sakae	Prachuab Khiri Khan	99.6315	11.5292	0.49	1
12	Ban Chai Thale	Thap Sakae	Thap Sakae	Prachuab Khiri Khan	99.6389	11.5235	0.90	1
13	Ban Chong Khweng	Thap Sakae	Thap Sakae	Prachuab Khiri Khan	99.6290	11.5085	0.86	1
14	Ban Nong Phikhun	Thap Sakae	Thap Sakae	Prachuab Khiri Khan	99.6375	11.5560	0.53	1
15	Ban Nong Namkhao	Thap Sakae	Thap Sakae	Prachuab Khiri Khan	99.6432	11.5403	0.74	1
16	Ban Thap Sakae	Thap Sakae	Thap Sakae	Prachuab Khiri Khan	99.6342	11.4981	0.93	1
17	Ban Don Sai	Na Hu Kwang	Thap Sakae	Prachuab Khiri Khan	99.6071	11.4506	0.60	1
18	Ban Sang Koh Khwang	Na Hu Kwang	Thap Sakae	Prachuab Khiri Khan	99.6202	11.4751	0.71	1
19	Ban Saeng Arun	Saeng Arun	Thap Sakae	Prachuab Khiri Khan	99.6442	11.5691	0.74	1
20	Ban Huay Yang	Huay Yang	Thap Sakae	Prachuab Khiri Khan	99.6769	11.6083	0.74	1
21	Ban Bon	Huay Yang	Thap Sakae	Prachuab Khiri Khan	99.6719	11.6111	0.69	1
22	Ban Thung Kwang	Huay Yang	Thap Sakae	Prachuab Khiri Khan	99.6698	11.5973	0.69	1
23	Ban Chai Thale Hui Yao	Huay Yang	Thap Sakae	Prachuab Khiri Khan	99.6858	11.6167	0.64	1
24	Ban Chak Lang	Ang Thong	Thap Sakae	Prachuab Khiri Khan	99.5920	11.4113	0.54	1
25	Ban Khok Ta Hom	Ang Thong	Thap Sakae	Prachuab Khiri Khan	99.5932	11.4266	0.67	1
26	Ban Tham Khiriwong	Thong Chai	Bang Saphan	Prachuab Khiri Khan	99.5915	11.3984	0.63	1
27	Ban Non Mongkhon	Thong Chai	Bang Saphan	Prachuab Khiri Khan	99.5430	11.3131	0.58	1
28	Ban Thang Sai	Thong Chai	Bang Saphan	Prachuab Khiri Khan	99.5818	11.3768	0.75	1
29	Ban Chai Mongkhon	Thong Chai	Bang Saphan	Prachuab Khiri Khan	99.5413	11.3053	0.46	1
30	Ban Krut Beach	Ban Krut	Bang Saphan	Prachuab Khiri Khan	99.5589	11.3161	0.60	1
31	Ban Hin Kong	Phong Prasat	Bang Saphan	Prachuab Khiri Khan	99.4750	11.1592	0.50	1
32	Ban Ton Thonglang	Phong Prasat	Bang Saphan	Prachuab Khiri Khan	99.4867	11.1442	0.63	1
33	Ban Don Samran	Mae Ramphung	Bang Saphan	Prachuab Khiri Khan	99.5448	11.2768	0.45	1
34	Ban Tha Manao	Mae Ramphung	Bang Saphan	Prachuab Khiri Khan	99.5562	11.2263	0.46	1
35	Ban Ao Yang	Mae Ramphung	Bang Saphan	Prachuab Khiri Khan	99.5621	11.1912	0.68	1
36	Ban Tha Kham	Mae Ramphung	Bang Saphan	Prachuab Khiri Khan	99.5486	11.2198	0.45	1
37	Ban Pak Khlong	Mae Ramphung	Bang Saphan	Prachuab Khiri Khan	99.5285	11.2033	0.46	1
38	Ban Lang	Mae Ramphung	Bang Saphan	Prachuab Khiri Khan	99.5191	11.2087	0.43	1
39	Bo Thonglang Bay	Mae Ramphung	Bang Saphan	Prachuab Khiri Khan	99.5744	11.2261	0.58	1
40	Ban Chgai Thale	Sai Thong	Bang Saphan Noi	Prachuab Khiri Khan	99.4970	11.0469	0.43	1
41	Ban Phang Daeng	Sai Thong	Bang Saphan Noi	Prachuab Khiri Khan	99.4957	11.0402	0.50	1
42	Ban Bang Pert	Sai Thong	Bang Saphan Noi	Prachuab Khiri Khan	99.4940	10.9917	0.40	1
43	Ban Nong Khong	Bang Saphan	Bang Saphan Noi	Prachuab Khiri Khan	99.4719	11.1171	0.71	1
44	Ban Khlong Nam Khem	Bang Saphan	Bang Saphan Noi	Prachuab Khiri Khan	99.4819	11.0885	0.46	1
45	Ban Pak Khlong	Bang Saphan	Bang Saphan Noi	Prachuab Khiri Khan	99.4884	11.0905	0.46	1
46	Ban Nong Samnet	Bang Saphan	Bang Saphan Noi	Prachuab Khiri Khan	99.4778	11.1054	0.57	1
47	Pai Koh Talu Beach	Bang Saphan	Bang Saphan Noi	Prachuab Khiri Khan	99.4992	11.0811	0.46	1
48	Ban Khaek	Pak Phraek	Bang Saphan Noi	Prachuab Khiri Khan	99.4841	11.0800	0.48	1
49	Ban Tha Lat Kradan	Paknam Pran	Pran Buri	Prachuab Khiri Khan	99.9826	12.4075	0.43	1
50	Ban Paknam Pran	Paknam Pran	Pran Buri	Prachuab Khiri Khan	99.9808	12.3993	0.48	1
51	Ban Prue Noi	Paknam Pran	Pran Buri	Prachuab Khiri Khan	99.9877	12.3719	0.55	1

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No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
52	Ban Nong Bua	Paknam Pran	Pran Buri	Prachuab Khiri Khan	99.9866	12.3520	0.65	1
53	Pran Buri	Paknam Pran	Pran Buri	Prachuab Khiri Khan	99.9958	12.4164	0.45	1
54	Ban Don Sai	Koh Lak	Muang	Prachuab Khiri Khan	99.7836	11.7849	0.51	1
55	Manao Bay (Khlong Wan Tambon Municipality)	Khlong Wan	Muang	Prachuab Khiri Khan	99.7906	11.7342	0.39	1
56	Phra Comklao Science Park at Wako	Khlong Wan	Muang	Prachuab Khiri Khan	99.7586	11.7133	0.49	1
57	Ban Khlong Wan	Khlong Wan	Muang	Prachuab Khiri Khan	99.7804	11.7468	0.67	1
58	Ban Nong hin	Khlong Wan	Muang	Prachuab Khiri Khan	99.7692	11.7434	0.49	1
59	Ban Wa Thone	Khlong Wan	Muang	Prachuab Khiri Khan	99.7478	11.7229	0.48	1
60	Ban Bor Nok Seafront Village	Bor Nok	Muang	Prachuab Khiri Khan	99.8758	12.0042	0.39	1
61	Ban Pak Khlong Kliew	Bor Nok	Muang	Prachuab Khiri Khan	99.9028	12.0399	0.42	1
62	Ban Hua Khok	Bor Nok	Muang	Prachuab Khiri Khan	99.8916	12.0513	0.56	1
63	Ban La Long	Bor Nok	Muang	Prachuab Khiri Khan	99.8827	12.0290	0.39	1
64	Ban Khlong Kao	Bor Nok	Muang	Prachuab Khiri Khan	99.8860	12.0210	0.56	1
65	Ban Bor Nok Seafront Village	Bor Nok	Muang	Prachuab Khiri Khan	99.8711	12.0057	0.42	1
66	Ban Khlong Chai Thong	Bor Nok	Muang	Prachuab Khiri Khan	99.8565	12.0049	0.55	1
67	Ban thung Kong	Bor Nok	Muang	Prachuab Khiri Khan	99.8233	11.9522	0.42	1
68	Ban Nong Bunyong	Bor Nok	Muang	Prachuab Khiri Khan	99.8314	11.9514	0.42	1
69	Prachuab Khiri Khan Muang Municipality	Prachuab Khirikhan	Muang	Prachuab Khiri Khan	99.8050	11.8242	0.62	1
70	Prachuab Khiri Khan Town 1	Prachuab Khirikhan	Muang	Prachuab Khiri Khan	99.8011	11.8056	0.61	1
71	Prachuab Khiri Khan Town 2	Prachuab Khirikhan	Muang	Prachuab Khiri Khan	99.8136	11.7894	0.54	1
72	Ban Wang Duan	Huay Sai	Muang	Prachuab Khiri Khan	99.7222	11.6887	0.48	1
73	Ban Huay Sai	Huay Sai	Muang	Prachuab Khiri Khan	99.7158	11.6755	0.65	1
74	Ta Monglai Mountain	Ao Noi	Muang	Prachuab Khiri Khan	99.8283	11.8556	0.49	1
75	Ban Nong Ya Plong	Ao Noi	Muang	Prachuab Khiri Khan	99.8212	11.9203	0.42	1
76	Ban Ao Noi	Ao Noi	Muang	Prachuab Khiri Khan	99.8214	11.8519	0.53	1
77	Ban Khan Kradai	Ao Noi	Muang	Prachuab Khiri Khan	99.8063	11.8670	0.83	1
78	Ban Thung Manao	Ao Noi	Muang	Prachuab Khiri Khan	99.8179	11.9205	0.42	1
79	Hua Hin	Nong Kae	Hua Hin	Prachuab Khiri Khan	99.9697	12.5422	0.42	1
80	Khai Kungwon Palace (Hua Hin Muang Municipality)	Hua Hin	Hua Hin	Prachuab Khiri Khan	99.9597	12.6369	0.34	1

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No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
72 Tsunami Risk Villages/Locations in 20 Tambons, 6 Districts of Pattani Province								
1	Talo Ka Pro Beach - Panare Beach Communities	Talo Ka Pro	Panare	Pattani	101.4394	6.8961	1.09	1
2	Chalalai Beach	Ban Klang	Panare	Pattani	101.5389	6.8522	1.50	1
3	Ban Bang Maruat	Ban Klang	Panare	Pattani	101.5172	6.8554	1.60	1
4	Ban Tha Chamao	Ban Klang	Panare	Pattani	101.5214	6.8429	1.60	1
5	Ban Laem Pang	Ban Klang	Panare	Pattani	101.5246	6.8521	1.60	1
6	Ratcharak Beach	Ban Nam Bo	Panare	Pattani	101.5794	6.8208	1.08	1
7	Ban Bang Moo	Ban Nam Bo	Panare	Pattani	101.5561	6.8209	1.36	1
8	Ban Nam Bo	Ban Nam Bo	Panare	Pattani	101.5690	6.8152	1.55	1
9	Ban Tha Su	Ban Nam Bo	Panare	Pattani	101.5864	6.7937	1.32	1
10	Ban Khae Khae	Ban Nam Bo	Panare	Pattani	101.5464	6.8428	1.34	1
11	Ban Na Maphrao Nok	Panare	Panare	Pattani	101.5040	6.8587	1.59	1
12	Ban Khlong Tam	Panare	Panare	Pattani	101.4708	6.8675	1.72	1
13	Panare Beach (Panare Tambon Municipality	Panare	Panare	Pattani	101.4908	6.8728	1.51	1
14	Ban Tanyong Lulo	Tanyong Lulo	Muang	Pattani	101.3024	6.8747	0.98	1
15	Ban Tanyong Lulo	Tanyong Lulo	Muang	Pattani	101.3056	6.8802	0.98	1
16	Ban Kurue Se	Tanyong Lulo	Muang	Pattani	101.3027	6.8721	0.98	1
17	Pattani Industrial Estate (Pattani Muang Municipality)	Bana	Muang	Pattani	101.2575	6.9075	0.69	1
18	Ban Su Ngai Panae	Bana	Muang	Pattani	101.2922	6.8715	1.03	1
19	Ban Bana	Bana	Muang	Pattani	101.2927	6.8753	1.03	1
20	Ban Bana	Bana	Muang	Pattani	101.2856	6.8732	1.56	1
21	Ban Kapong Tarong	Bana	Muang	Pattani	101.2802	6.8679	0.93	1
22	Ban yuyo	Bana	Muang	Pattani	101.2594	6.8919	1.06	1
23	Ban Laem Nok	Bana	Muang	Pattani	101.2771	6.8884	0.98	1
24	Ban Paka Dado	Bana	Muang	Pattani	101.2627	6.8796	1.06	1
25	Ban Pare	Bara Hom	Muang	Pattani	101.3187	6.8759	0.89	1
26	Ban Pare	Bara Hom	Muang	Pattani	101.3143	6.8721	0.91	1
27	Ban Di	Bara Hom	Muang	Pattani	101.3185	6.8673	0.89	1
28	Ban Rusamilae	Rusamilae	Muang	Pattani	101.2350	6.8707	1.08	1
29	Ban Bang Plamo	Rusamilae	Muang	Pattani	101.1969	6.8643	1.08	1
30	Ban Donrak	Rusamilae	Muang	Pattani	101.2079	6.8570	0.91	1
31	Ban Nga Mae	Rusamilae	Muang	Pattani	101.2084	6.8589	1.08	1
32	Ban Khok Samrong	Rusamilae	Muang	Pattani	101.2348	6.8615	1.08	1
33	Ban Suan Somdet	Rusamilae	Muang	Pattani	101.2379	6.8822	1.08	1
34	Bang Sai Beach Pamai Beach	Don Sai	Maikaen	Pattani	101.7175	6.5967	1.35	1
35	Ban Pamai	Don Sai	Maikaen	Pattani	101.7090	6.5831	1.33	1
36	Ban Rang Mot Daeng	Don Sai	Maikaen	Pattani	101.6991	6.6132	1.37	1
37	Ban Rawang	Don Sai	Maikaen	Pattani	101.6883	6.6312	1.41	1
38	Ban Don Sai	Don Sai	Maikaen	Pattani	101.6908	6.5992	1.17	1
39	Ban Tha Chang	Sai Thong	Maikaen	Pattani	101.6777	6.6297	1.32	1
40	Ban Maikaen	Mai Kaen	Maikaen	Pattani	101.6667	6.6374	1.10	1
41	Ban Krachute	Mai Kaen	Maikaen	Pattani	101.6654	6.6596	1.45	1
42	Talokapo Beach	Talokapo	Yaring	Pattani	101.3722	6.8961	1.24	1
43	Ban Pata	Talokapo	Yaring	Pattani	101.3752	6.8969	1.24	1
44	Ban Talo Aho	Talokapo	Yaring	Pattani	101.3790	6.8872	1.19	1
45	Ban Tha Dan	Talokapo	Yaring	Pattani	101.4199	6.8752	1.72	1
46	Ban Tha Phong	Talokapo	Yaring	Pattani	101.4370	6.8736	2.02	2
47	Ban tha Kun	Talokapo	Yaring	Pattani	101.3906	6.8861	1.19	1
48	Bangpu Municipality Area	Bangpu	Yaring	Pattani	101.3269	6.8789	0.85	1
49	Tachi Cape	Laem Pho	Yaring	Pattani	101.2864	6.9567	1.01	1
50	Ban Budi	Laem Pho	Yaring	Pattani	101.3083	6.9332	0.80	1
51	Ban Salo Samilae	Laem Pho	Yaring	Pattani	101.3213	6.9288	0.90	1

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No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
52	Ban Pata Budi	Laem Pho	Yaring	Pattani	101.3084	6.9392	0.90	1
53	Ban Dato	Laem Pho	Yaring	Pattani	101.3300	6.9122	0.75	1
54	Wasubri Beach (Taluban Tambon Municipality)	Taluban	Sai Buri	Pattani	101.6611	6.6883	1.03	1
55	Wasukri Beach (Sai Buri District)	Bang Kao	Sai Buri	Pattani	101.6022	6.7769	1.00	1
56	Ban Bang Kao Nua	Bang Kao	Sai Buri	Pattani	101.5968	6.7730	1.38	1
57	Ban Bang Kao Tai	Bang Kao	Sai Buri	Pattani	101.6001	6.7713	1.19	1
58	Ban Bang Kao Thale	Bang Kao	Sai Buri	Pattani	101.6035	6.7619	1.29	1
59	Ban Pata Bara	Pa Se Yawo	Sai Buri	Pattani	101.6359	6.7159	1.30	1
60	Ban Bon	Pa Se Yawo	Sai Buri	Pattani	101.6201	6.7296	1.35	1
61	Ban Pa Se Yawo	Pa Se Yawo	Sai Buri	Pattani	101.6284	6.7203	0.30	1
62	Ban Thung Khet	Pa Se Yawo	Sai Buri	Pattani	101.6176	6.7140	1.28	1
63	Ban Lum	Pa Se Yawo	Sai Buri	Pattani	101.6276	6.7242	1.30	1
64	Ban Tanyong Pao	Tha Kamsam	Nong Chik	Pattani	101.0997	6.8584	1.06	1
65	Ban Bang Rapha	Tha Kamsam	Nong Chik	Pattani	101.0657	6.8517	1.09	1
66	Ban Bang Rai	Bang Khao	Nong Chik	Pattani	101.1490	6.8441	1.05	1
67	Ban Ba Kong	Bang Khao	Nong Chik	Pattani	101.1554	6.8481	1.18	1
68	Ban Sai Mo	Bang Khao	Nong Chik	Pattani	101.1337	6.8577	1.03	1
69	Ban Pak Bang Tawa	Bang Tawa	Nong Chik	Pattani	101.1704	6.8628	1.05	1
70	Ban Tawa	Bang Tawa	Nong Chik	Pattani	101.1751	6.8643	1.13	1
71	Nong Chik Municipality Area	Nong Chik	Nong Chik	Pattani	101.1761	6.8692	0.99	1
72	Nong Chik Community	Nong Chik	Nong Chik	Pattani	100.9950	6.8664	0.96	1

Table A - 2 Name List of 907 Tsunami Risk Villages/Locations in 222 Tambons, 70 Districts of 16 Provinces on Guld of Thailand Coast.

No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
45 Tsunami Risk Villages/Locations in 12 Tambons, 4 Districts of Petchaburi Province								
1	Cha - am Beach	Cha - am	Cha - am	Petchaburi	99.9750	12.7594	0.29	1
2	Marukha Thaya Wan Palace	Cha - am	Cha - am	Petchaburi	99.9686	12.7322	0.39	1
3	Puktian Beach (Cha - am Muang Municipality)	Bang Kao	Cha - am	Petchaburi	100.0117	12.8517	0.47	1
4	Ban Bang Kao	Bang Kao	Cha - am	Petchaburi	100.0221	12.9003	0.39	1
5	Ban Bang Kao	Bang Kao	Cha - am	Petchaburi	100.0233	12.8954	0.34	1
6	Ban Bo Yai	Bang Kao	Cha - am	Petchaburi	100.0169	12.8780	0.35	1
7	Ban Tha	Bang Kao	Cha - am	Petchaburi	100.0050	12.8683	0.31	1
8	Ban Pak Khlong	Bang Kao	Cha - am	Petchaburi	100.0106	12.8654	0.47	1
9	Ban Thasai	Bang Kao	Cha - am	Petchaburi	100.0077	12.8587	0.47	1
10	Ban Bang Ket	Bang Kao	Cha - am	Petchaburi	100.0000	12.8486	0.50	1
11	Ban Tanote Laung	Bang Kao	Cha - am	Petchaburi	100.0045	12.8825	0.35	1
12	Ban Bo Rai	Nong Sala	Cha - am	Petchaburi	100.0079	12.9121	0.33	1
13	Ban Puk Tien	Puk Tian	Ta yang	Petchaburi	100.0275	12.9388	0.31	1
14	Ban Nong Muang	Puk Tian	Ta yang	Petchaburi	100.0170	12.9311	0.31	1
15	Ban Laem District Community Areaa 2	Bang Kaew	Ban Laem	Petchaburi	100.0667	13.0994	0.24	1
16	Ban Muang Klang	Bang Kaew	Ban Laem	Petchaburi	100.0582	13.1022	0.27	1
17	Ban Tham Niap	Bang Kaew	Ban Laem	Petchaburi	100.0611	13.1010	0.27	1
18	Ban Bon Doi	Bang Kaew	Ban Laem	Petchaburi	100.0622	13.1038	0.27	1
19	Ban Chong Khaep	Bang Kaew	Ban Laem	Petchaburi	100.0461	13.1192	0.30	1
20	Ban Chong Yai	Bang Kaew	Ban Laem	Petchaburi	100.0598	13.0977	0.23	1
21	Ban Bang Kaew	Bang Kaew	Ban Laem	Petchaburi	100.0573	13.1058	0.27	1
22	Ban Bang Khun Sai	Bang Khun Sai	Ban Laem	Petchaburi	100.0206	13.1878	0.18	1
23	Ban Bang Khun Sai	Bang Khun Sai	Ban Laem	Petchaburi	100.0111	13.1764	0.20	1
24	Ban Bang Khun Sai	Bang Khun Sai	Ban Laem	Petchaburi	100.0130	13.1857	0.20	1
25	Ban Bang Khun Sai	Bang Khun Sai	Ban Laem	Petchaburi	100.0145	13.1822	0.19	1
26	Ban Bang Khun Sai	Bang Khun Sai	Ban Laem	Petchaburi	100.0127	13.1762	0.19	1
27	Ban Bang - in	Bang Khun Sai	Ban Laem	Petchaburi	100.0308	13.1746	0.19	1
28	Ban Samakkhi	Bang Khun Sai	Ban Laem	Petchaburi	100.0164	13.1823	0.20	1
29	Ban Laem District 1 (Ban Laem Tambon Municipality)	Bang Tabun Ok	Ban Laem	Petchaburi	99.9481	13.2678	0.21	1
30	Ban Laem District 2 (Ban Laem Tambon Municipality)	Ban Laem	Ban Laem	Petchaburi	99.9969	13.2256	0.19	1
31	Ban Nok	Ban Laem	Ban Laem	Petchaburi	99.9883	13.2202	0.20	1
32	Ban Talat	Ban Laem	Ban Laem	Petchaburi	99.9864	13.2074	0.19	1
33	Ban Nai	Ban Laem	Ban Laem	Petchaburi	99.9850	13.2026	0.19	1
34	Ban San Chao Tuk	Ban Laem	Ban Laem	Petchaburi	99.9765	13.2154	0.19	1
35	Ban Thong Khung	Ban Laem	Ban Laem	Petchaburi	99.9865	13.2218	0.20	1
36	Ban Laem District Community Area	Pak Thala	Ban Laem	Petchaburi	100.0719	13.1467	0.19	1
37	Ban Pak Thale Nai	Pak Thala	Ban Laem	Petchaburi	100.0551	13.1519	0.23	1
38	Ban Pak Thale	Pak Thala	Ban Laem	Petchaburi	100.0540	13.1545	0.23	1
39	Ban Bang - in	Pak Thala	Ban Laem	Petchaburi	100.0556	13.1507	0.23	1
40	Ban Pha Noen	Laem Phakbia	Ban Laem	Petchaburi	100.0827	13.0540	0.26	1
41	Ban Donnai	Laem Phakbia	Ban Laem	Petchaburi	100.0840	13.0352	0.35	1
42	Ban Donkhang	Laem Phakbia	Ban Laem	Petchaburi	100.0819	13.0290	0.40	1
43	Ban Don Khadi	Laem Phakbia	Ban Laem	Petchaburi	100.0688	13.0265	0.41	1
44	Ban Tanote Noi	Nong Khanan	Muang	Petchaburi	100.0392	12.9728	0.45	1
45	Chao Samran Beach (Had Chao Samran Tambon Muncipal	Chao Samran	Muang	Petchaburi	100.0550	12.9842	0.35	1

Table A - 2 Name List of 907 Tsunami Risk Villages/Locations in 222 Tambons, 70 Districts of 16 Provinces on Guld of Thailand Coast.

No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
32 Tsunami Risk Villages/Locations in 13 Tambons, 3 Districts of Rayong Province								
1	Ban Sak Makrut	Kram	Klang	Rayong	101.6486	12.6770	0.38	1
2	Ban Thanon Kaphrao	Noen Kho	Klang	Rayong	101.6604	12.6922	0.35	1
3	Ban Thanon Ok	Noen Kho	Klang	Rayong	101.6878	12.7005	0.35	1
4	Ban Thanon Nai	Noen Kho	Klang	Rayong	101.6526	12.6916	0.31	1
5	Paknam Prasae Tambon Municipality	Paknam Prasae	Klang	Rayong	101.7064	12.6978	0.34	1
6	Ban Paknam Phang Rat	Phang Rat	Klang	Rayong	101.7820	12.6975	0.34	1
7	Ban Koh Loy	Phang Rat	Klang	Rayong	101.7523	12.7254	0.29	1
8	Ban Tha Makok	Phang Rat	Klang	Rayong	101.7827	12.7132	0.34	1
9	Ban Phayun	Ban Chang	Ban Chang	Rayong	101.0717	12.6794	0.37	1
10	U - tapao Airport	Phla	Ban Chang	Rayong	101.0033	12.6567	0.40	1
11	Ban Phla	Phla	Ban Chang	Rayong	101.0413	12.6679	0.34	1
12	Ban Takat	Phla	Ban Chang	Rayong	101.0555	12.6868	0.39	1
13	Ban Khao khlog	Phla	Ban Chang	Rayong	101.0444	12.6848	0.39	1
14	Ban Phla Temple	Phla	Ban Chang	Rayong	101.0439	12.6650	0.39	1
15	Mae Phim Cape (Klang Krachet tambon Municipality)	Klang	Muang	Rayong	101.5000	12.6267	0.28	1
16	Ban Mooban Klang	Klang	Muang	Rayong	101.4874	12.6372	0.31	1
17	Ban Mooban Mua Thung	Klang	Muang	Rayong	101.4821	12.6449	0.32	1
18	Large - scale Industrial Factory	choeng Noen	Muang	Rayong	101.2936	12.6450	0.42	1
19	Ban Noen Phutsa	Choeng Noen	Muang	Rayong	101.3131	12.6601	0.34	1
20	Ban Taphong Nok	Taphong	Muang	Rayong	101.3444	12.6461	0.40	1
21	Ban Chon	Taphong	Muang	Rayong	101.3780	12.6325	0.38	1
22	Ban Taphong Nok	Taphong	Muang	Rayong	101.3479	12.6427	0.40	1
23	Ban Pa Khan	Taphong	Muang	Rayong	101.3626	12.6372	0.37	1
24	Ban Sanchao	Noen Phra	Muang	Rayong	101.2349	12.6783	0.33	1
25	Ban Krok Yai Cha	Noen Phra	Muang	Rayong	101.1997	12.6756	0.44	1
26	Ban Laem Suan	Noen Phra	Muang	Rayong	101.2056	12.6840	0.34	1
27	Beach (Rayong City Mnunicipality)	Paknam	Muang	Rayong	101.2556	12.6556	0.41	1
28	ban Phe Beadh(Ban Phe Tambon Municipality)	Phe	Muang	Rayong	101.4392	12.6194	0.36	1
29	Mae Ramphung (Ban Phe Tambon Municipality)	Phe	Muang	Rayong	101.3978	12.5992	0.45	1
30	Samet Island	Phe	Muang	Rayong	101.4508	12.5478	0.40	1
31	Ban Koh Samet	Phe	Muang	Rayong	101.4523	12.5760	0.31	1
32	Maptaphut Industrial Estate (Maptaphut Tambon Municipalit	Maptaphut	Muang	Rayong	101.1481	12.6394	0.30	1

Table A - 2 Name List of 907 Tsunami Risk Villages/Locations in 222 Tambons, 70 Districts of 16 Provinces on Guld of Thailand Coast.

No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
114 Tsunami Risk Villages/Locations in 29 Tambons, 6 Districts of Songkhla Province								
1	Ban Lao	Koh Taew	Chana	Songkhla	100.6661	7.1203	0.63	1
2	Ban Taling Chan	Taling Chan	Chana	Songkhla	100.7602	6.9812	1.06	1
3	Ban Nai Rai	Taling Chan	Chana	Songkhla	100.7557	6.9899	0.95	1
4	Ban Wang Ngoo	Taling Chan	Chana	Songkhla	100.7671	6.9805	1.08	1
5	Chana Community Area 1	Na Thap	Chana	Songkhla	100.7850	6.9764	0.28	1
6	Ban Khlong Kha	Na Thap	Chana	Songkhla	100.6903	7.0507	0.87	1
7	Ban Pak Bang	Na Thap	Chana	Songkhla	100.6949	7.0664	0.92	1
8	Ban Tha Yang	Na Thap	Chana	Songkhla	100.7035	7.0472	0.88	1
9	Ban Tha Khlong	Na Thap	Chana	Songkhla	100.7053	7.0427	0.88	1
10	Ban Ma Ngon	Na Thap	Chana	Songkhla	100.7124	7.0182	0.90	1
11	Ban Na Samian	Na Thap	Chana	Songkhla	100.7125	7.0336	0.90	1
12	Ban Tao It	Na Thap	Chana	Songkhla	100.7034	7.0318	0.69	1
13	Ban Khunam Rop	Na Thap	Chana	Songkhla	100.7152	7.0227	0.82	1
14	Ban Puk Tien	Na Thap	Chana	Songkhla	100.6798	7.0862	1.02	1
15	Ban Khlong Thing	Na Thap	Chana	Songkhla	100.7215	7.0137	1.01	1
16	Ban Pak Chot	Na Thap	Chana	Songkhla	100.6951	7.0587	0.92	1
17	Ban Tham Nop	Na Thap	Chana	Songkhla	100.6937	7.0618	0.92	1
18	Chana Community area 2	Sakom	Chana	Songkhla	100.7228	7.0411	0.83	1
19	Ban Sakom Huanon	Sakom	Chana	Songkhla	100.7986	6.9422	1.01	1
20	Ban Chin	Sakom	Chana	Songkhla	100.8023	6.9422	0.98	1
21	Ban Pak Bang	Sakom	Chana	Songkhla	100.8235	6.9491	0.89	1
22	Ban Chai Khlong	Sakom	Chana	Songkhla	100.8005	6.9452	0.98	1
23	Ban Plai Chik	Sakom	Chana	Songkhla	100.7963	6.9576	1.01	1
24	Ban Bo Chone	Sakom	Chana	Songkhla	100.8190	6.9519	0.89	1
25	Ban Bon Lan	Sakom	Chana	Songkhla	100.7969	6.9521	1.01	1
26	Ban Krong I - tam	Koh Sab	Thepha	Songkhla	100.9093	6.9053	1.01	1
27	Ban Phra Phuit	Thepha	Thepha	Songkhla	100.9559	6.8642	1.05	1
28	Ban Pak Bang Thepha	Thepha	Thepha	Songkhla	100.9670	6.8689	1.16	1
29	Ban Koh Lar Nang	Pak Bang	Thepha	Songkhla	101.0409	6.8495	1.23	1
30	Ban Khlong Pradu	Pak Bang	Thepha	Songkhla	100.9715	6.8590	1.05	1
31	Ban Khlong Khwai	Pak Bang	Thepha	Songkhla	101.0228	6.8385	1.09	1
32	Ban Pak Bang Sakom	Sakom	Thepha	Songkhla	100.8298	6.9500	0.86	1
33	Ban Sawan	Sakom	Thepha	Songkhla	100.8082	6.9425	0.98	1
34	Ban Khao Noi	Sakom	Thepha	Songkhla	100.8785	6.9277	1.24	1
35	Ban Bo It	Koh Taew	Muang	Songkhla	100.6741	7.0955	0.88	1
36	Ban Thing Yai Community, Ban Noen Chai Tala	Khao Rupchang	Muang	Songkhla	100.6389	7.1608	0.63	1
37	Kao Seng Beach	Khao Rupchang	Muang	Songkhla	100.6278	7.1767	0.66	1
38	Ban Thung Yai	Khao Rupchang	Muang	Songkhla	100.6315	7.1632	0.94	1
39	Ban Saphan Yao	Khao Rupchang	Muang	Songkhla	100.6215	7.1554	0.92	1
40	Ban Prap	Khao Rupchang	Muang	Songkhla	100.6215	7.1515	0.92	1
41	Ban Chai Thale	Khao Rupchang	Muang	Songkhla	100.6432	7.1475	0.95	1
42	Ban Kan Kheha	Khao Rupchang	Muang	Songkhla	100.5975	7.1811	0.79	1
43	Samila Cape (Isongkhla City Municipality)	Bo Yang	Muang	Songkhla	100.6058	7.2144	0.66	1
44	Ban Pak Rawa	Khlong Taen	Ranote	Songkhla	100.3381	7.9177	0.71	1
45	Ban Rap Phraek	Tha Bon	Ranote	Songkhla	100.3482	7.7872	0.72	1
46	Ban U - Taphao	Tha Bon	Ranote	Songkhla	100.3625	7.8004	0.67	1
47	Ban Tha Bon	Tha Bon	Ranote	Songkhla	100.3601	7.8107	0.66	1
48	Ban Sala Laung Bon	Tha Bon	Ranote	Songkhla	100.3529	7.8478	0.76	1
49	Ban Hua Khung	Tha Bon	Ranote	Songkhla	100.3442	7.8800	0.66	1
50	Ban Sala Laung Lang	Tha Bon	Ranote	Songkhla	100.3379	7.8437	0.76	1
51	Ban Mapbua	Tha Bon	Ranote	Songkhla	100.3422	7.8920	0.58	1

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No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
52	Ban Wat Pradu	Bo Tru	Ranote	Songkhla	100.3906	7.6247	0.84	1
53	Ban Pho riang	Bo Tru	Ranote	Songkhla	100.3880	7.6406	0.86	1
54	Ban Rap Phraek	Pak Trae	Ranote	Songkhla	100.3529	7.7814	0.77	1
55	Ban Taphang Mo	Pak Trae	Ranote	Songkhla	100.3553	7.7709	0.78	1
56	Ban Liap	Pak Trae	Ranote	Songkhla	100.3617	7.7616	0.81	1
57	Ban Pak Trae	Pak Trae	Ranote	Songkhla	100.3696	7.7735	0.78	1
58	Ban Nong Rang	Pak Trae	Ranote	Songkhla	100.3731	7.7612	0.81	1
59	Ban Koh Hua Chang	Pak Trae	Ranote	Songkhla	100.3717	7.7556	0.83	1
60	Ban Rap Phraek	Pak Trae	Ranote	Songkhla	100.3529	7.7814	0.77	1
61	Ban Hua Note	Rawa	Ranote	Songkhla	100.3677	7.7330	0.74	1
62	Ban Phang Ngai	Rawa	Ranote	Songkhla	100.3759	7.7031	0.80	1
63	Ban Wat Phrao	Rawa	Ranote	Songkhla	100.3802	7.6838	0.80	1
64	Ban Rawang	Rawa	Ranote	Songkhla	100.3822	7.7190	0.69	1
65	Ban Hua Yang	Rawa	Ranote	Songkhla	100.3890	7.6838	0.80	1
66	Ban Na Thong	Rawa	Ranote	Songkhla	100.3761	7.7440	0.75	1
67	Ban Phang Tri	Rawa	Ranote	Songkhla	100.3818	7.7032	0.82	1
68	Ban Don vae	Kradang - Nga	Sathing Phra	Songkhla	100.4248	7.5240	0.71	1
69	Ban Nong Muang	Kradang - Nga	Sathing Phra	Songkhla	100.4263	7.5156	0.86	1
70	Ban Kradang - Nga	Kradang - Nga	Sathing Phra	Songkhla	100.4282	7.5098	0.86	1
71	Ban Phang Pet	Kradang - Nga	Sathing Phra	Songkhla	100.4308	7.5027	0.86	1
72	Ban Bo Kut	Kradang - Nga	Sathing Phra	Songkhla	100.4325	7.4993	0.72	1
73	Ban Phang Thia	Kradang - Nga	Sathing Phra	Songkhla	100.4331	7.4965	0.72	1
74	Ban Phang Sai	Kradang - Nga	Sathing Phra	Songkhla	100.4339	7.4931	0.72	1
75	Sathing Phra Community (Sathing Phra Tambon Municipalit	Cha Thing Pra	Sathing Phra	Songkhla	100.4486	7.4756	0.65	1
76	Ban Phang Phao	Cha Thing Pra	Sathing Phra	Songkhla	100.4456	7.4529	0.79	1
77	Ban Phang Sa - met	Cha Thing Pra	Sathing Phra	Songkhla	100.4455	7.4574	0.79	1
78	Ban Matcha	Cha Thing Pra	Sathing Phra	Songkhla	100.4367	7.4860	0.77	1
79	Ban Phang Luk	Cha Thing Pra	Sathing Phra	Songkhla	100.4351	7.4885	0.77	1
80	Ban Chumpon Rawang	Chumphon	Sathing Phra	Songkhla	100.4074	7.6070	0.77	1
81	Ban Wat Kra Chaithale	Chumphon	Sathing Phra	Songkhla	100.4050	7.6201	0.84	1
82	Ban Nang Lao	Chumphon	Sathing Phra	Songkhla	100.3962	7.6203	0.84	1
83	Ban Wat Kra Chaithale	Chumphon	Sathing Phra	Songkhla	100.3975	7.6134	0.74	1
84	Ban Chumphon	Chumphon	Sathing Phra	Songkhla	100.4000	7.6012	0.77	1
85	Ban Liab	Di Laung	Sathing Phra	Songkhla	100.4033	7.5953	0.84	1
86	Ban Di Laung	Di Laung	Sathing Phra	Songkhla	100.4038	7.5908	0.72	1
87	Ban Chalon	Di Laung	Sathing Phra	Songkhla	100.4047	7.5862	0.72	1
88	Ban Chai Thale	Di Laung	Sathing Phra	Songkhla	100.4119	7.5862	0.84	1
89	Ban Phang Sai	Di Laung	Sathing Phra	Songkhla	100.4074	7.5804	0.83	1
90	Ban Cha Mae	Di Laung	Sathing Phra	Songkhla	100.4086	7.5760	0.83	1
91	Ban Bo Mai	Di Laung	Sathing Phra	Songkhla	100.4100	7.5705	0.87	1
92	Ban Phang Maiphai	Di Laung	Sathing Phra	Songkhla	100.4110	7.5675	0.87	1
93	Ban Phang Kham	Bo Dan	Sathing Phra	Songkhla	100.4508	7.4459	0.77	1
94	Ban Bo Dan	Bo Dan	Sathing Phra	Songkhla	100.4522	7.4396	0.75	1
95	Ban Maikaen	Bo Dan	Sathing Phra	Songkhla	100.4539	7.4340	0.75	1
96	Ban Phang Tam Sao	Bo Dan	Sathing Phra	Songkhla	100.4554	7.4278	0.77	1
97	Ban Muang Duan	Bo Dan	Sathing Phra	Songkhla	100.4505	7.4177	0.77	1
98	Ban Phang Wan	Bo Dan	Sathing Phra	Songkhla	100.4585	7.4188	0.69	1
99	Ban Khae	Bo Daeng	Sathing Phra	Songkhla	100.4592	7.4164	0.79	1
100	Ban Khae Bon	Bo Daeng	Sathing Phra	Songkhla	100.4619	7.4115	0.79	1
101	Ban Bor Daeng	Bo Daeng	Sathing Phra	Songkhla	100.4646	7.4009	0.79	1
102	Ban Phang Chang Tai	Bo Daeng	Sathing Phra	Songkhla	100.4657	7.3980	0.75	1

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No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
103	Ban Khae Lang	Bo Daeng	Sathing Phra	Songkhla	100.4529	7.4114	0.79	1
104	Ban Wat Phikun	Bo Daeng	Sathing Phra	Songkhla	100.4557	7.4007	0.74	1
105	Ban Hua Yang	Watchan	Sathing Phra	Songkhla	100.4674	7.3934	0.75	1
106	Ban Bo Pradu	Watchan	Sathing Phra	Songkhla	100.4703	7.3877	0.80	1
107	Ban Bo Pradu	Watchan	Sathing Phra	Songkhla	100.4707	7.3783	0.69	1
108	Ban Po	Watchan	Sathing Phra	Songkhla	100.4794	7.3664	0.75	1
109	Ban Phang Thane	Watchan	Sathing Phra	Songkhla	100.4611	7.3871	0.80	1
110	Ban Phli	Watchan	Sathing Phra	Songkhla	100.4638	7.3781	0.69	1
111	Ban Phang Kok	Sanam Chai	Sathing Phra	Songkhla	100.4112	7.5656	0.87	1
112	Ban Sanam Chai	Sanam Chai	Sathing Phra	Songkhla	100.4143	7.5530	0.82	1
113	Ban Rawang Sanam Chai	Sanam Chai	Sathing Phra	Songkhla	100.4198	7.5552	0.82	1
114	Ban Don Khet	Sanam Chai	Sathing Phra	Songkhla	100.4200	7.5410	0.83	1
115	Ban Plai Khlong	Sanam Chai	Sathing Phra	Songkhla	100.4225	7.5314	0.71	1
116	Saikaew Beach (Singha Nakhon Tambon Municipality)	Ching Kho	Singha Nakhon	Songkhla	100.5508	7.2564	0.76	1
117	Ban Ching Kho	Ching Kho	Singha Nakhon	Songkhla	100.5170	7.2676	0.75	1
118	Ban Ching Kho Tha Ok	Ching Kho	Singha Nakhon	Songkhla	100.5262	7.2698	0.67	1
119	Ban Bo Sra Tha Ok	Ching Kho	Singha Nakhon	Songkhla	100.5218	7.2751	0.69	1
120	Ban Bo Sra	Ching Kho	Singha Nakhon	Songkhla	100.5138	7.2726	0.71	1
121	Ban Di Laung	Ching Kho	Singha Nakhon	Songkhla	100.5088	7.2809	0.69	1
122	Ban Hua Yang	Ching Kho	Singha Nakhon	Songkhla	100.5266	7.2829	0.69	1
123	Singha Nakhon Community 2	Muang Ngam	Singha Nakhon	Songkhla	100.4953	7.3461	0.60	1
124	Ban Pa - o	Muang Ngam	Singha Nakhon	Songkhla	100.4853	7.3285	0.67	1
125	Ban bo Tia	Muang Ngam	Singha Nakhon	Songkhla	100.4964	7.3195	0.82	1
126	Ban Muang Ngam	Muang Ngam	Singha Nakhon	Songkhla	100.4936	7.3403	0.72	1
127	Ban Muang Ngam	Muang Ngam	Singha Nakhon	Songkhla	100.4878	7.3330	0.67	1
128	Ban Pratu Khian	Muang Ngam	Singha Nakhon	Songkhla	100.4811	7.3340	0.64	1
129	Ban Muang Ngam	Muang Ngam	Singha Nakhon	Songkhla	100.4773	7.3464	0.72	1
130	Ban Muang Ngam	Muang Ngam	Singha Nakhon	Songkhla	100.4851	7.3469	0.72	1
131	Ban Muang Phum	Muang Ngam	Singha Nakhon	Songkhla	100.4844	7.3512	0.80	1
132	Ban Sua Muang	Muang Ngam	Singha Nakhon	Songkhla	100.4810	7.3627	0.69	1
133	Ban Makham Khlan	Muang Ngam	Singha Nakhon	Songkhla	100.4744	7.3566	1.08	1
134	Singha Nakhonb Commnunity 1	Wat Khanun	Singha Nakhon	Songkhla	100.5156	7.3072	0.63	1
135	Ban Di Luang	Wat Khanun	Singha Nakhon	Songkhla	100.5046	7.2890	0.67	1
136	Ban Wat Khanun	Wat Khanun	Singha Nakhon	Songkhla	100.4988	7.3011	0.66	1
137	Ban Makham Khlan	Wat Khanun	Singha Nakhon	Songkhla	100.4980	7.3040	0.66	1
138	Ban Nong Hoy	Wat Khanun	Singha Nakhon	Songkhla	100.4928	7.3137	0.71	1
139	Ban Bo Pling	Wat Khanun	Singha Nakhon	Songkhla	100.4891	7.3177	0.82	1
140	Ban Wat Khanun	Wat Khanun	Singha Nakhon	Songkhla	100.5073	7.3001	0.82	1
141	Ban Chai Tale	Wat Khanun	Singha Nakhon	Songkhla	100.5153	7.3014	0.66	1
142	Ban Wat Wat	Wat Khanun	Singha Nakhon	Songkhla	100.5022	7.3142	0.71	1
143	PTT. Oil Storage Tanks (Singha Nakhon Tambon Municipal	Sathing Mo	Singha Nakhon	Songkhla	100.5636	7.2431	0.75	1
144	Singha Nakhon Community (Singha Nakhon Tambon	Hua Khao	Singha Nakhon	Songkhla	100.5733	7.2322	0.79	1
	Municipality)							

Table A - 2 Name List of 907 Tsunami Risk Villages/Locations in 222 Tambons, 70 Districts of 16 Provinces on Guld of Thailand Coast.

No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
13 Tsunami Risk Villages/Locations in 4 Tambons, 3 Districts of Samut Prakan Province								
1	Bang Bo District (Khlong Dan Tambon Municipality)	Khlong Dan	Bang Bo	Samut Prakan	100.8125	13.4867	0.31	1
2	Ban Sang Sok	Khlong Dan	Bang Bo	Samut Prakan	100.8132	13.4941	0.23	1
3	Ban Khlong Dan Pak Ao	Khlong Dan	Bang Bo	Samut Prakan	100.8153	13.4903	0.23	1
4	Ban Khlong Dan Pak Ao	Khlong Dan	Bang Bo	Samut Prakan	100.8209	13.4970	0.25	1
5	Phra Samut Chedi Sea Base	Laem Phapha	Pra Samut Chedi	Samut Prakan	100.5858	13.5431	0.31	1
6	Ban Khlong Suan	Laem Phapha	Pra Samut Chedi	Samut Prakan	100.5610	13.5643	0.28	1
7	Ban Laem Sing	Laem Phapha	Pra Samut Chedi	Samut Prakan	100.5641	13.5175	0.28	1
8	Ban Khun Samut Chin	Laem Phapha	Pra Samut Chedi	Samut Prakan	100.5333	13.5047	0.27	1
9	Ban Khun Samut Chin	Laem Phapha	Pra Samut Chedi	Samut Prakan	100.5256	13.5048	0.27	1
10	Ban Laem yaii	Laem Phapha	Pra Samut Chedi	Samut Prakan	100.4618	13.4997	0.26	1
11	Muang Community (Bang Pu Tambon Municipality)	Thaiban	Muang	Samut Prakan	100.5950	13.5469	0.31	1
12	Bang Phli Industrial Estate 1 (Bang Pu Tambon Municipality	Bang Pu Mai	Muang	Samut Prakan	100.6508	13.5147	0.26	1
13	Ban Phli Industrial Estate 2 (Bang Pu Tambon Municipality)	Bang Pu Mai	Muang	Samut Prakan	100.6233	13.5236	0.33	1

Table A - 2 Name List of 907 Tsunami Risk Villages/Locations in 222 Tambons, 70 Districts of 16 Provinces on Guld of Thailand Coast.

No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
22 Tsunami Risk Villages/Locations in 4 Tambons, 1 District of Samut Songkhram Province								
1	Ban Khlong Khon	Khlong Khon	Muang	Samut Songkhram	99.9632	13.3384	0.25	1
2	Ban Khlong Khon	Khlong Khon	Muang	Samut Songkhram	99.9633	13.3340	0.24	1
3	Ban Bhraek Thale	Khlong Khon	Muang	Samut Songkhram	99.9529	13.3215	0.22	1
4	Ban Khlong Chong	Khlong Khon	Muang	Samut Songkhram	99.9419	13.3222	0.22	1
5	Ban Khlong Chong Noi	Khlong Khon	Muang	Samut Songkhram	99.9411	13.3189	0.22	1
6	Ban Khon Thi District (Samut Songkhram Muang Municipali	Bang Kaew	Muang	Samut Songkhram	100.0092	13.3578	0.83	1
7	Ban Bang Prachan	Bang Kaew	Muang	Samut Songkhram	100.0338	13.4190	0.26	1
8	Ban Bang Bo	Bang Kaew	Muang	Samut Songkhram	100.0333	13.4039	0.30	1
9	Ban Rong Kung	Bang Kaew	Muang	Samut Songkhram	100.0647	13.4215	0.29	1
10	Ban Rong Phuen	Bang Kaew	Muang	Samut Songkhram	100.0440	13.4246	0.24	1
11	Ban Pak Map	Bang Kaew	Muang	Samut Songkhram	100.0319	13.3900	0.26	1
12	Ban Chai Thale	Bang Kaew	Muang	Samut Songkhram	100.0769	13.4260	0.30	1
13	Ban Bang Bo Lang	Bang Kaew	Muang	Samut Songkhram	100.0385	13.3984	0.26	1
14	Ban Raman	Bang Cha Kreng	Muang	Samut Songkhram	99.9939	13.3777	0.26	1
15	ban Bang Cha Kreng	Bang Cha Kreng	Muang	Samut Songkhram	99.9993	13.3841	0.26	1
16	Ban Chuchi	Bang Cha Kreng	Muang	Samut Songkhram	100.0177	13.3647	0.26	1
17	Ban Raman Tawan - ok	Bang Cha Kreng	Muang	Samut Songkhram	99.9980	13.3783	0.26	1
18	Ban Khlong Dan	Laem Yai	Muang	Samut Songkhram	99.9822	13.3760	0.22	1
19	Ban Khlong Dan	Laem Yai	Muang	Samut Songkhram	99.9861	13.3734	0.23	1
20	Ban Khlong Dan	Laem Yai	Muang	Samut Songkhram	99.9787	13.3733	0.10	1
21	Ban Khlong Song Rong	Laem Yai	Muang	Samut Songkhram	99.9926	13.3574	0.24	1
22	Ban Chatsan Khlong dan	Laem Yai	Muang	Samut Songkhram	99.9885	13.3702	0.24	1

Table A - 2 Name List of 907 Tsunami Risk Villages/Locations in 222 Tambons, 70 Districts of 16 Provinces on Guld of Thailand Coast.

No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
11 Tsunami Risk villages/Locations in 6 Tambons, 1 District of Samut Sakhon Province								
1	Ban Chai Thale	Kalong	Muang	Samut Sakhon	100.1530	13.4494	0.26	1
2	Ban Chai Thale Rang Chan	Nakhok	Muang	Samut Sakhon	100.1089	13.4366	0.31	1
3	Ban Chai Thale Rong Kung	Nakhok	Muang	Samut Sakhon	100.0810	13.4264	0.30	1
4	Ban Chai Thale Bang Kra Che	Bang Krachao	Muang	Samut Sakhon	100.2231	13.4709	0.25	1
5	Muang District (Samut Sakhon City Municipality)	Bang Yaphraek	Muang	Samut Sakhon	100.2806	13.4992	0.24	1
6	Ban Kamphra	Bang Yaphraek	Muang	Samut Sakhon	100.2751	13.5190	0.24	1
7	Ban Bang Yaphraek	Bang Yaphraek	Muang	Samut Sakhon	100.2663	13.5180	0.25	1
8	Ban Hua Phrong	Bang Yaphraek	Muang	Samut Sakhon	100.2667	13.5142	0.26	1
9	Ban Kracha Khao	Ban Bo	Muang	Samut Sakhon	100.2130	13.4651	0.27	1
10	Ban Sahakon	Phanthai Norasing	Muang	Samut Sakhon	100.3807	13.4910	0.31	1
11	Muang Samut Sakhon Community	Nakhok	Muang	Samut Sakhon	100.0861	13.4186	0.28	1

Table A - 2 Name List of 907 Tsunami Risk Villages/Locations in 222 Tambons, 70 Districts of 16 Provinces on Guld of Thailand Coast.

No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
53 Tsunami risk Villages/Locations in 19 Tambons, 8 Districts of Surat Thani Province								
1	Kanchanadit Tambon Municipality	Kradae	Kanchanadit	Surat Thani	99.4622	9.2028	0.15	1
2	Ban Chang - a	Takhain Thong	Kanchanadit	Surat Thani	99.4431	9.1863	0.15	1
3	Ban Paknam Tha Thong	Tha Thong	Kanchanadit	Surat Thani	99.5009	9.2328	0.15	1
4	Ban Bang Samrong	Tha Thong Mai	Kanchanadit	Surat Thani	99.3780	9.1797	0.15	1
5	Ban Pak Kradae	Phlai Wat	Kanchanadit	Surat Thani	99.4783	9.2037	0.15	1
6	Madue Wan	Koh Phangan	Koh Phangan	Surat Thani	100.0050	9.7431	0.36	1
7	Ban Wok Tum	Koh Phangan	Koh Phangan	Surat Thani	99.9894	9.7339	0.22	1
8	Ban Chalok Bankao	Koh Phangan	Koh Phangan	Surat Thani	99.9825	9.7460	0.19	1
9	Ban Hin Kong	Koh Phangan	Koh Phangan	Surat Thani	99.9752	9.7522	0.69	1
10	Ban Chalok Lam	Koh Phangan	Koh Phangan	Surat Thani	100.0074	9.7865	0.36	1
11	Ban Sri Thanu	Koh Phangan	Koh Phangan	Surat Thani	99.9671	9.7593	0.46	1
12	Ban Nok	Ban Tai	Koh Phangan	Surat Thani	100.0304	9.7067	0.27	1
13	Ban Nua	Ban Tai	Koh Phangan	Surat Thani	100.0257	9.7085	0.27	1
14	Ban Khai	Ban Tai	Koh Phangan	Surat Thani	100.0419	9.6940	0.40	1
15	Ban Thong Nai Pan	Ban Tai	Koh Phangan	Surat Thani	100.0536	9.7764	0.81	1
16	Ban Had Rin	Ban Tai	Koh Phangan	Surat Thani	100.0674	9.6812	0.48	1
17	Ban Phai Pru	Takrop	chaiya	Surat Thani	99.2347	9.5019	0.16	1
18	Ban Takrop	Takrop	chaiya	Surat Thani	99.2522	9.4615	0.18	1
19	Ban Huay Phun	Takrop	chaiya	Surat Thani	99.2285	9.4838	0.19	1
20	Ban Bo Kha	Takrop	chaiya	Surat Thani	99.2350	9.4819	0.19	1
21	Phum Riang Village, Chaiya Beach	Phum Riang	chaiya	Surat Thani	99.2772	9.3756	0.14	1
22	Ban Pod	Conkhram	Donsak	Surat Thani	99.5916	9.2621	0.13	1
23	Ban Khram Lang	Conkhram	Donsak	Surat Thani	99.6205	9.2595	0.13	1
24	Ban Nang Kam	Donsak	Donsak	Surat Thani	99.7501	9.3148	0.12	1
25	Ban Koh Nok Phao	Donsak	Donsak	Surat Thani	99.6716	9.3993	0.13	1
26	Khao Suwan Pradit Temple (Donsak Tambon Municipality)	Donsak	Donsak	Surat Thani	99.6742	9.3281	0.12	1
27	Donsak Community)Donsak Tambon Municipality)	Donsak	Donsak	Surat Thani	99.6942	9.3275	0.11	1
28	Ferry Pier (Donsak Tambon Municipality)	Donsak	Donsak	Surat Thani	99.7086	9.3247	0.11	1
29	Ban Than Namron	Khao Than	Tha Chang	Surat Thani	99.2062	9.3039	0.13	1
30	Ban Bang Nam Chuet	Khao Than	Tha Chang	Surat Thani	99.2139	9.2976	0.14	1
31	Ban Rai Prung	Khao Than	Tha Chang	Surat Thani	99.2077	9.2902	0.13	1
32	Ban Sai Yai	Khao Than	Tha Chang	Surat Thani	99.2032	9.2811	0.14	1
33	Ban Don Bay	Tha Khoey	Tha Chang	Surat Thani	99.2417	9.2464	0.13	1
34	Ban Koh Yang	Khan Thuli	Thachana	Surat Thani	99.1522	9.6713	0.19	1
35	Ban Don thale	Khan Thuli	Thachana	Surat Thani	99.1691	9.6503	0.20	1
36	Thachana District Community	Khan Thuli	Thachana	Surat Thani	99.1625	9.6869	0.19	1
37	Tha Krachai	thachana	Thachana	Surat Thani	99.2035	9.5872	0.16	1
38	Ban Thachana	Thachana	Thachana	Surat Thani	99.2003	9.5817	0.16	1
39	Ban Na Makham	Thachana	Thachana	Surat Thani	99.1946	9.5842	0.16	1
40	Ban Paknam Tha Krachai	Thachana	Thachana	Surat Thani	99.2059	9.6045	0.17	1
41	Ban Nong Prue	Thachana	Thachana	Surat Thani	99.1856	9.6067	0.17	1
42	Ban Din Kong	Wang	Thachana	Surat Thani	99.2160	9.5099	0.20	1
43	Ban Had Sombun	Wang	Thachana	Surat Thani	99.2317	9.5118	0.20	1
44	Ban Paknam Tha Muang	Wang	Thachana	Surat Thani	99.2161	9.5438	0.16	1
45	Ban Tha Muang	Wang	Thachana	Surat Thani	99.1977	9.5549	0.18	1
46	Thachana District Community 2	Wang	Thachana	Surat Thani	99.2192	9.5472	0.18	1
47	Ban Khlong Rang	Lilet	Phunphin	Surat Thani	99.2921	9.2176	0.14	1
48	Ban Huay Sap	Lilet	Phunphin	Surat Thani	99.2375	9.2219	0.15	1
49	Ban Bang Kla	Khlong chanak	Muang	Surat Thani	99.3552	9.1938	0.15	1
50	Ban Sri Watana Taphi	Khlong chanak	Muang	Surat Thani	99.3368	9.2076	0.14	1
51	taphi River Mouth (Sarat Thani Muang Municipality)	Khlong chanak	Muang	Surat Thani	99.3736	9.2075	0.15	1

Table A - 2 Name List of 907 Tsunami Risk Villages/Locations in 222 Tambons, 70 Districts of 16 Provinces on Guld of Thailand Coast.

No.	Locations/Village	Tambon	District	Province	Latitude (X) (East)	Longitude (Y) (North)	Wave Height	Intensity
52	Ban Khlong Suk	Bang Chana	Muang	Surat Thani	99.3180	9.2080	0.14	1
53	Ban Khlong Riew	Bang Chana	Muang	Surat Thani	99.3296	9.2149	0.15	1
Total : 907 Tsunami Risk Areas in 222 Tambons, 70 Districts of 16 Gulf of Thailand Coast Provinces								

Remark 1. Data on names and positons of villages are available form National Statistics Office, Thailand (2004)

2. Names and positions of beaches, tourist attractions and key places are available form conducting data checking and applying Google Earth Map (2006) to plot their coordinate positions

3. Wave hieghts are available from the results of data analysis using mathematical modelling conducted by Engineering College, Rangsit University.

4. Basing on Shuto's Tsunami Intensity Scale (1983) to determine tsunami intensity in areas at risk. In case of Thailand, the experts have determined and classified tsunami Intensity into 4 levels as follow :

Level of Intensity	Description
4 (Iwave height greater than 10 metes)	Causes catastrophic damage to life and physical assets. Livelihoods are completely ruins. Water backwashes drift vehicles and other objects into a sea. Big boulders and vessels are drifted ashore. All types of building are demolihsed.
3 (Wave height : 5 - 10 metres)	Causes severe damage to life and property. People are swept along by tsunami waves. Small vessels are demolished. Wooden and masonry buildings are totally destroyed. Reinforced - concrete buildings are partly destroyed.
2 (Wave height : 2 - 5 metres)	Causes moderatge damage. Number of people are swept off by waves. Causes damage to small vessels. Most wooden houses are swept away and masonry buildings are partly demolihsed. Most reinforced - concrete buildings withstand.
1 (Wave height : less than 2 metres)	Causes minor damage. Small vessels may be swept ashore or overturn. Wooden houses may collapse. Reinforced - concrete buildings withstand.

ANNEX C

LIST OF COLLABORATED AGENCIES

LIST OF COLLABORATED AGENCIES

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1. Ministry of Information and Communication Technology
2. Ministry of Public Health
3. Ministry of Foreign Affairs
4. Ministry of Defence
5. Ministry of Finance
6. Ministry of Energy
7. Ministry of Labour
8. Ministry of Industry
9. Ministry of Agriculture and Cooperatives
10. Ministry of Education
11. Ministry of Social Development and Human Security
12. Ministry of Natural Resources and Environment
13. Office of The Prime Minister
14. Office of National Economic and Social Development Board
15. Office of The National Security Council
16. Public Relations Department
17. Disaster Mitigation Center, Ministry of Defence
18. Royal Thai Police Forensic Science Bureau
19. Thai Meteorological Department
20. National Disaster Warning Center
21. National Institute of Emergency Medical Services
22. Department of Mental Health
23. Department of Disease Control
24. Department of Health
25. Royal Thai Air Force
26. Naval Hydrographic Department
27. Disaster Mitigation Center, Royal Thai Armed Forces
28. Electricity Generating Authority of Thailand
29. Department of Livestock Development
30. Land Development Department
31. Royal Irrigation Department
32. Office of Permanent Secretary for Ministry of Education
33. Office of Basic Education Commission of Thailand
34. Office of the Vocational Education Commission
35. Office of Higher Education Commission
36. Department of Mineral Resources
37. Department of Water Resources
38. Pollution Control Department
39. Department of Groundwater Resources

40. Department of Marine and Coastal Resources
41. Department of National Park, Wild Life and Flora
42. Department of Skill Development
43. Department of Labour Protection and Welfare
44. Department of Employment
45. Social Security Office
46. Office of Permanent Secretary for Ministry of Interior
47. Department of Disaster Prevention and Mitigation/Disaster Prevention and Mitigation Regional Center, Disaster Prevention and Mitigation Provincial Office
48. Department of Public Works and Town & Country Planning
49. Department of Provincial Administration
50. Department of Local Administration
51. Provincial Government/District Office/Provincial Administration Organization/Tambon Administration Organization/Municipality
52. Provincial Waterworks Authority
53. Provincial Electricity Authority
54. Marine Department
55. Department of Land Transport
56. Department of Civil Aviation
57. Department of Highways
58. Department of Rural Roads
59. Port Authority of Thailand
60. State Railways of Thailand
61. Airport of Thailand Public Company Limited
62. The National Telecommunications Commission
63. Mass Communication of Thailand
64. Central Institute of Forensic Science Thailand
65. Tourism Authority of Thailand
66. National Housing Authority
67. Geo – Informatics and Space Technology Development Agency (Public Organization)
68. Thai Red Cross Society
69. Asian Disaster Preparedness Center
70. Telephone Organization of Thailand (Public Company Limited)
71. Communication Authority of Thailand (Public Company Limited)

ANNEX D

NAME LIST OF AGENCIES INVOLVED/ACRONYMS

Ministry/Agency	Acronym	Affiliated Agency	Acronym
1. Office of the Prime Minister	OPM	• Office of National Economic and Social Development Board • Budget Bureau • Royal Thai Police • Royal Thai Police Forensic Science Bureau • Public Relations Department	NESDB BB RTP FSB PRD
2. Ministry of Agriculture and Cooperatives	MOAC	• Office of Permanent Secretary for Ministry of Agriculture and Cooperation • Royal Irrigation Department • Department of Fisheries • Land Development Department • Department of Livestock Development	OPS. MOAC RID DOF LDD DLD
3. Ministry of Defence	MOD	• Royal Thai Armed Forces Headquarters • Royal Thai Army • Disaster Mitigation Center, Royal Thai Army • Royal Thai Navy • Disaster Mitigation Center, Royal Thai Navy •Naval Hydrographic Department, Royal Thai Navy •Royal Thai Air Force • Disaster Mitigation Center, Royal Thai Air Force	RTAFH RTA DMC. RTA RTN DMC. RTN NHD RTAF DMC. RTAF
4. Ministry of Transportation	MOT	• Marine Department • Department of Land Transport • Department of Civil Aviation • Department of Highways • Department of Rural Roads • State Railways of Thailand • Port Authority of Thailand	MD DLT DCA DOLH DRR SRT PAT
5. Ministry of Interior	MOI	• Department of Provincial Administration • Provincial Government • Provincial Governor	DOPA PG PGn

Ministry/Agency	Acronym	Affiliated Agency	Acronym
		• District Office	DO
		• Department of Disaster Prevention and Mitigation	DDPM
		• Disaster Prevention and Mitigation Regional Center	DPMRC
		• Disaster Prevention and Mitigation Provincial Office	DPMPO
		• Department of Public Works and Town & Country Planning	PWTCP
		• Department of Local Administration	DOLA
		• Provincial Administration Organization	PAO
		• Tambon Administration Organization	TAO
		• Municipality	Mp
6. Ministry of Information and Communication Technology	MOICT	• Thai Meteorological Department	TMD
		• National Disaster Warning Center	NDWC
		• Office of Permanent Secretary for Ministry of Information and Communication Technology	OPS.MOICT
7. Ministry of Natural Resources and Environment	MONRE	• Pollution Control Department	PCD
		• Office of Natural Resources and Environment Policy and Plan	NREPP
		• Department of Mineral Resources	DMR
		• Department of Groundwater Resources	DGR
		• Department of National Park, Wild Life and Flora	NPWLF
		• Department of Marine and Coastal Resources	MCR
		• Royal Forest Department	RFD
		• Department of Environmental Quality Promotion	DEQP
		• Department of Water Resources	DWR
8. Ministry of Finance	MOF	• Office of Permanent Secretary for Ministry of Finance	OPS. MOF
		• The General Comptroller's Department	CGD

Ministry/Agency	Acronym	Affiliated Agency	Acronym
9. Ministry of Tourism and Sports	MOTS	• Tourism Authority of Thailand • Department of Tourism	TAT DOT
10. Ministry of Foreign Affairs	MOFA	• Thailand International Development Cooperation Agency • Office of Permanent Secretary for Ministry of Foreign Affairs	TIGA OPS. MOFA
11. Ministry of Social Development and Human Security	MOSDHS	• Department of Social Development and Welfares • Community Organizations Development Institute (Public Organization)	DSDW CODI
12. Ministry of Industry	MOI	• Department of Industrial Works	DIW
13. Ministry of Energy	MOE	• Office of Permanent Secretary for Ministry of Energy • Department of Energy Business	OPS. MOE DOEB
14. Ministry of Public Health	MOPH	• Office of Permanent Secretary for Ministry of Public Health • Department of Health • Department of Disease Control • Department of Medical Services • National Institute of Emergency Medical Services	OPS. MPH DM DDC DMS NIEMS
15. Ministry of Justice	MOJ	• Central Institute of Forensic Science Thailand	CIFS
16. Ministry of Labour	MOL	• Department of Skill Development • Department of Labour Protection and Welfare • Department of Employment • Social Security Office	DSD LPW DOW SSO
17. Ministry of Education	MOE	• Office of Basic Education Commission • Office of Higher Education Commission • Office of Vocational Education Commission • Office of Permanent Secretary for Ministry of Education • Educational Establishments	OBEC OHEC OVEC OPS. MOE

Ministry/Agency	Acronym	Affiliated Agency	Acronym
18. Public Enterprise	PE	• Electricity Generating Authority of Thailand • Provincial Electricity Authority • Provincial Waterworks Authority • National Housing Authority	EGAT PEA PWA NHA
19. Independent Government Agency	IGA	• The National Telecommunication Commission of Thailand	NTCT
20. Civil Defence Volunteer	CDV		
21. Thai Red Cross Society			
22. Asian Disaster Preparedness Center	ADPC		

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