

THAILAND



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Webinar:
Lessons Learnt during
Exercise IOWave 2023

12 December 2023

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Scenarios Exercised



Andaman Trench (4 Oct)



Makran Trench (11 Oct)



Heard Island (18 Oct)



Java Trench (25 Oct)



Exercise Participants



Thailand (DDPM) conducts a tsunami exercise every year. The exercise varies with a Functional, Drill and conforms to the National plan, Provincial plan, District plan, Sub-District plan, and also the Tsunami SOP at all levels. In 2023, we had a Tsunami Action Plan functional exercise by using 2004 Tsunami scenario on the following dates:

1. 7th June 2023
2. 11th August 2023
3. 14th September 2023

These exercises consist of 9 central DDPM bureaus , 6 Andaman provinces (each province conducted her own districts and sub district). Total 220 participants. Because all the exercises must be conducted within budget year (runs from 1st October to 30th September), therefore we conducted only tabletop exercise for the IOWave23 which related to 3 prior exercises. In this exercise, participants were from central DDPM bureaus which consist in National Emergency Operating Head Quarters in real situation. The propose of this exercise is to evaluate their own bureau's Tsunami SOP.

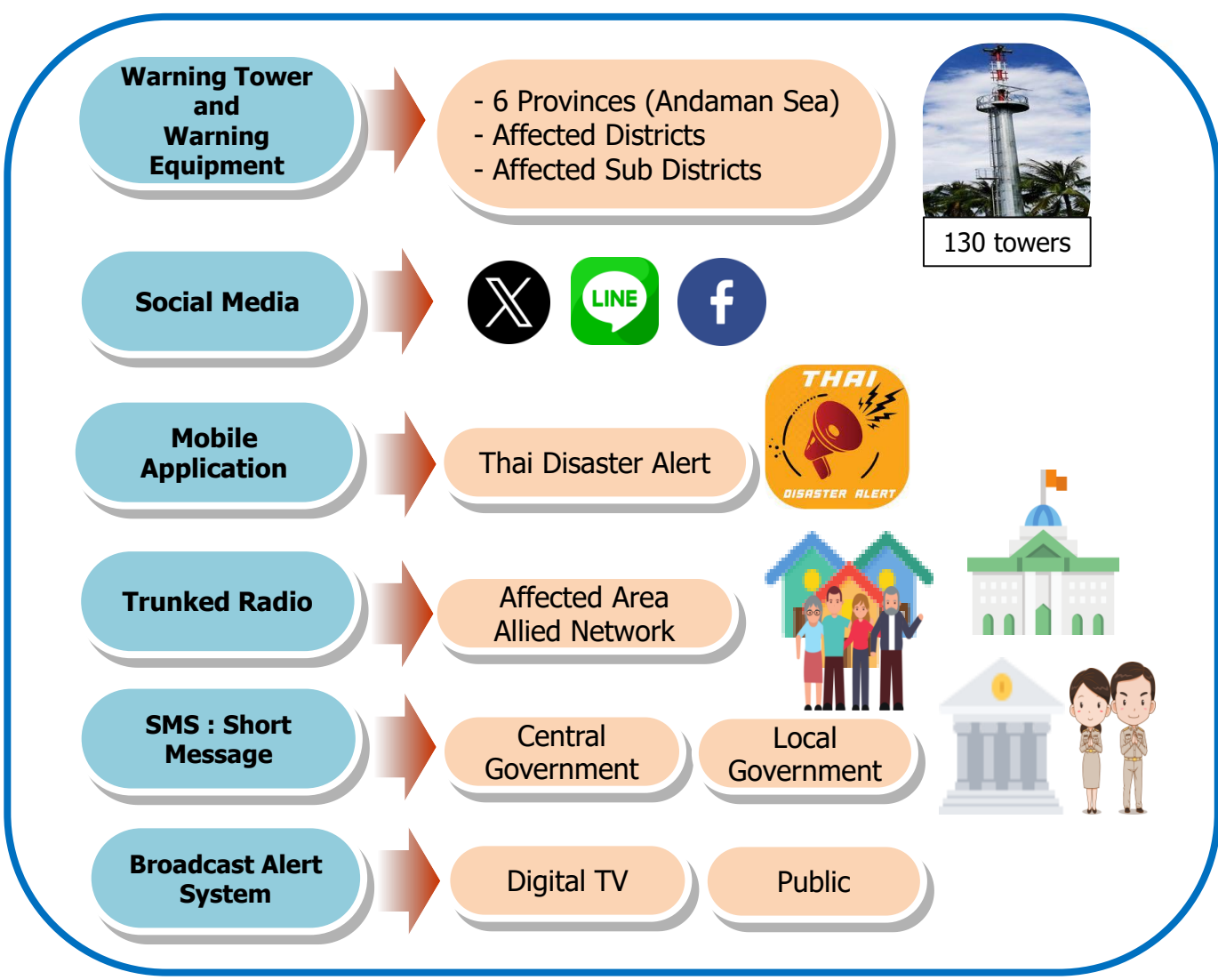
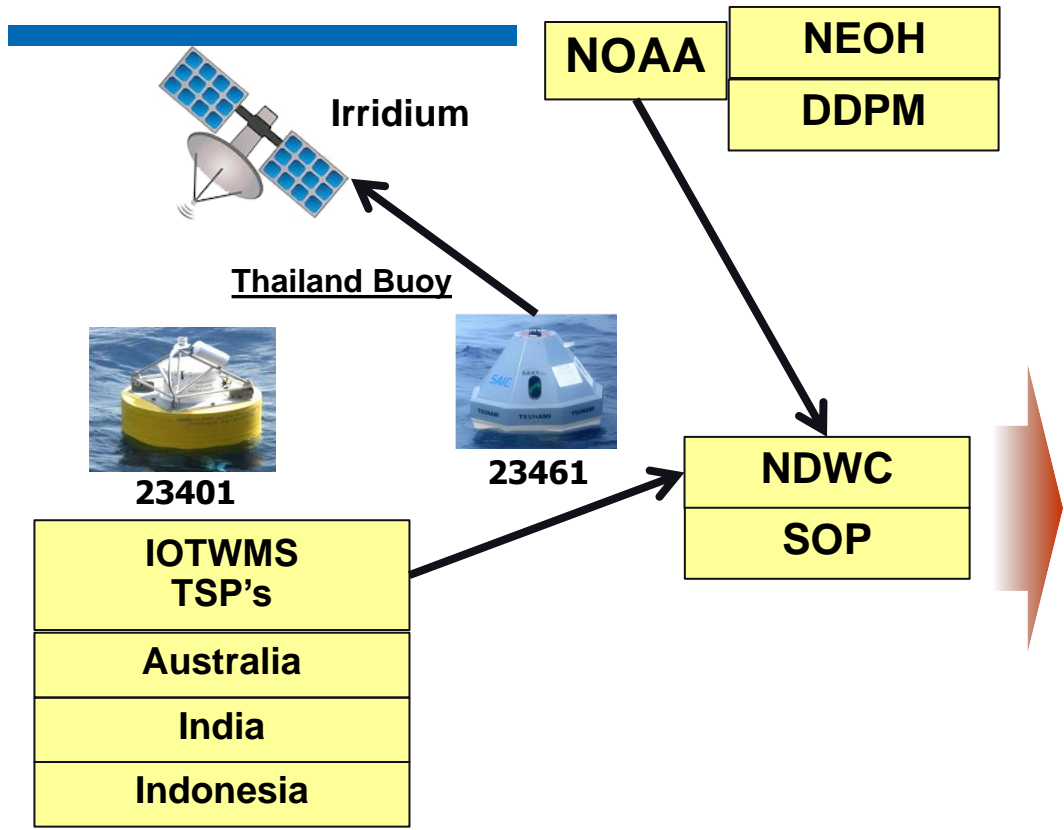
Was the exercise used to evaluate Tsunami Ready or similar indicators in your country?

For this exercise, Tsunami Ready evaluation was not conducted, but it will be conducted in Thailand tsunami exercise next time. Tsunami Ready is included in Tsunami Action Plan and under responsibility of local government.

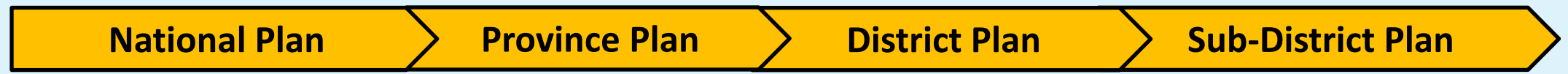
Summary of what happened during the exercise

During the exercise, all participants were enthusiastic and paid good attention, following each bureau's SOP. Took notes and got conclusion on their SOP for real situation.

National Tsunami Warning System



Mitigation System



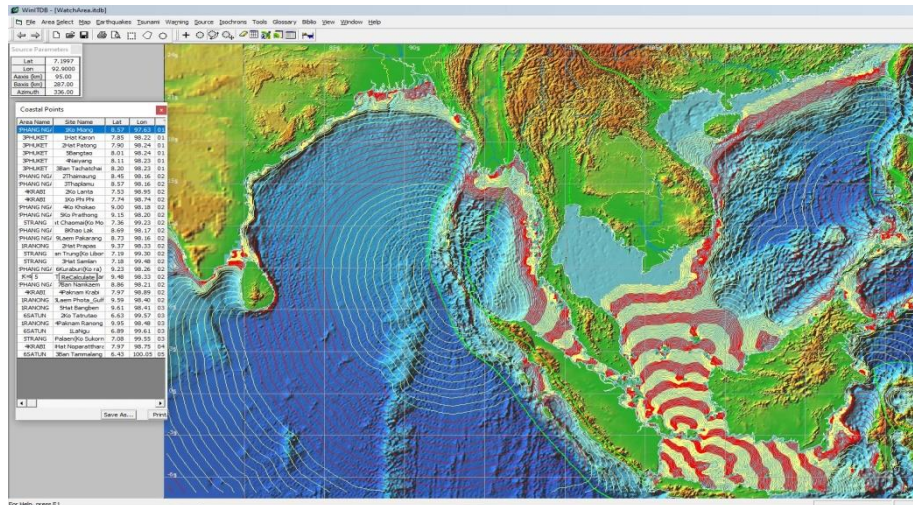
National Organisation of Exercise IOWave23

Exercise Organisation : Central DDPM bureaus such as NDWC, Disaster Management Center, Disaster Prevention Criteria Bureau, Information Technology And Communication Center, Disaster Prevention Promotion Division , Public Relations Division, Research and International Cooperation Bureau and Disaster Prevention and Mitigation Policy Bureau.



Lessons Learnt

In practice, NDWC uses the winITDB program to evaluate the arrival time of the wave to the Tsunami risk areas. We expect that forecasted the arrival time and wave height from TSP's pre-run model could be used to develop the arrival time of wave to get a time that is as close to reality as possible. NDWC can also use issued time of BULLETIN NUMBER 1 (Type-I Earthquake Bulletin) and of BULLETIN NUMBER 2 (Type-II Earthquake Bulletin) for adjusting first tsunami warning in NDWC Tsunami SOP.



winITDB

Region	Site Name	Lat	Lon	Time
2PHANG NGA	1Ko Miang	8.57	97.63	01:13:54
3PHUKET	1Hat Karon	7.85	98.22	01:24:55
3PHUKET	2Hat Patong	7.90	98.24	01:24:55
3PHUKET	5Bangtao	8.01	98.24	01:30:04
3PHUKET	4Naiyang	8.11	98.23	01:37:48
3PHUKET	3Ban Tachatchai	8.20	98.23	01:39:23
2PHANG NGA	2Thaimuang	8.45	98.16	01:46:57
2PHANG NGA	3Thaplamu	8.57	98.16	01:58:09
4KRABI	2Ko Lanta	7.53	98.95	02:04:28
4KRABI	1Ko Phi Phi	7.74	98.74	02:10:45
2PHANG NGA	4Ko Khokao	9.00	98.18	02:12:56
5STRANG	1Hat Chaomai (Ko Mook)	7.36	99.23	02:13:33
2PHANG NGA	5Ko Prathong	9.15	98.20	02:13:48
2PHANG NGA	8Khao Lak	8.69	98.17	02:24:20
2PHANG NGA	9Laem Pakarang	8.73	98.16	02:24:20
1RANONG	2Hat Prapas	9.37	98.33	02:27:19
5STRANG	2Kan Trung (Ko Libong)	7.19	99.30	02:29:16
5STRANG	3Hat Samlan	7.18	99.48	02:29:16
2PHANG NGA	6Kuraburi (Ko ra)	9.23	98.26	02:30:14
1RANONG	1Ban Thalaenok (Ko Kam Yai)	9.48	98.33	02:30:17
2PHANG NGA	7Ben Namkaem	8.86	98.21	02:33:09
4KRABI	4Paknam Krabi	7.97	98.89	02:40:01
1RANONG	3Laem Phota Gulf	9.59	98.40	02:42:46
1RANONG	5Hat Bangben	9.61	98.41	02:44:26
6SATUN	2Ko Tatrutao	6.63	99.57	02:47:21
1RANONG	4Paknam Ranong	9.95	98.48	03:02:13
6SATUN	1Lanngu	6.89	99.61	03:10:30
5STRANG	4Palae (Ko Sukorn)	7.08	99.55	03:33:09
4KRABI	3Hat Noparatthara	7.97	98.75	04:09:46
6SATUN	3Ban Tamalang	6.43	100.05	05:08:34

forecast arrival time

Images



(1) Tsunami Functional Exercise with Disaster Prevention in 6 provinces focusing on the tsunami-prone areas.



(2) The IOWave23 exercise at the Operation Room and Central of the National Disaster Warning Center, Thailand.



THANK YOU