

# EXERCISE PACIFIC WAVE 2016 (PacWave16) Exercise Evaluation

**Total Responses: 12**

## **NWPTAC**

China  
French Polynesia  
Hong Kong (China)  
Indonesia  
Malaysia  
Papua New Guinea  
Russia  
Singapore  
Solomon Islands  
South Korea  
Vietnam

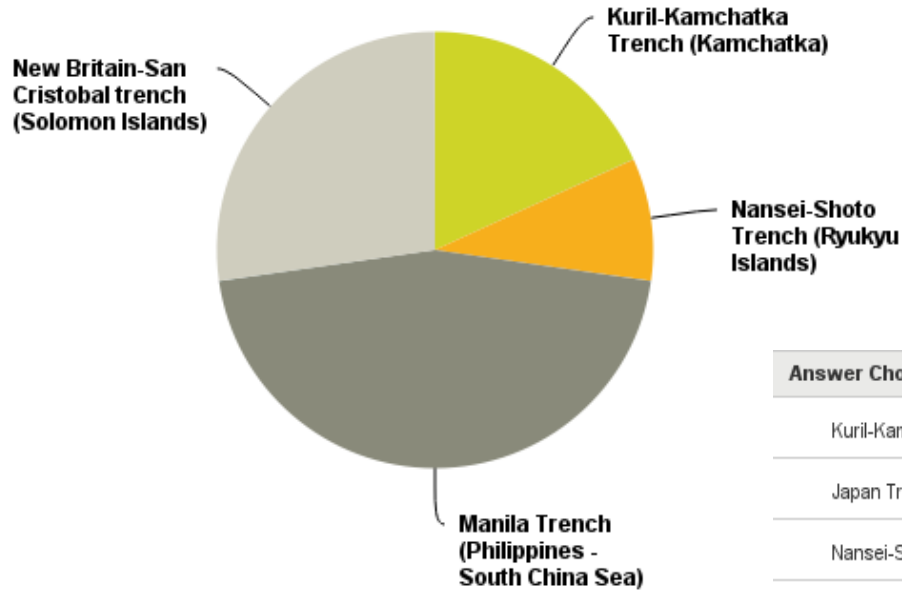
## **Non-NWPTAC**

Samoa

Laura Kong  
Co-Chair, PTWS Task Team on PacWave Exercises  
August 2016

## Q8: Country Exercise Scenario(Select scenario used)

Answered: 11 Skipped: 1

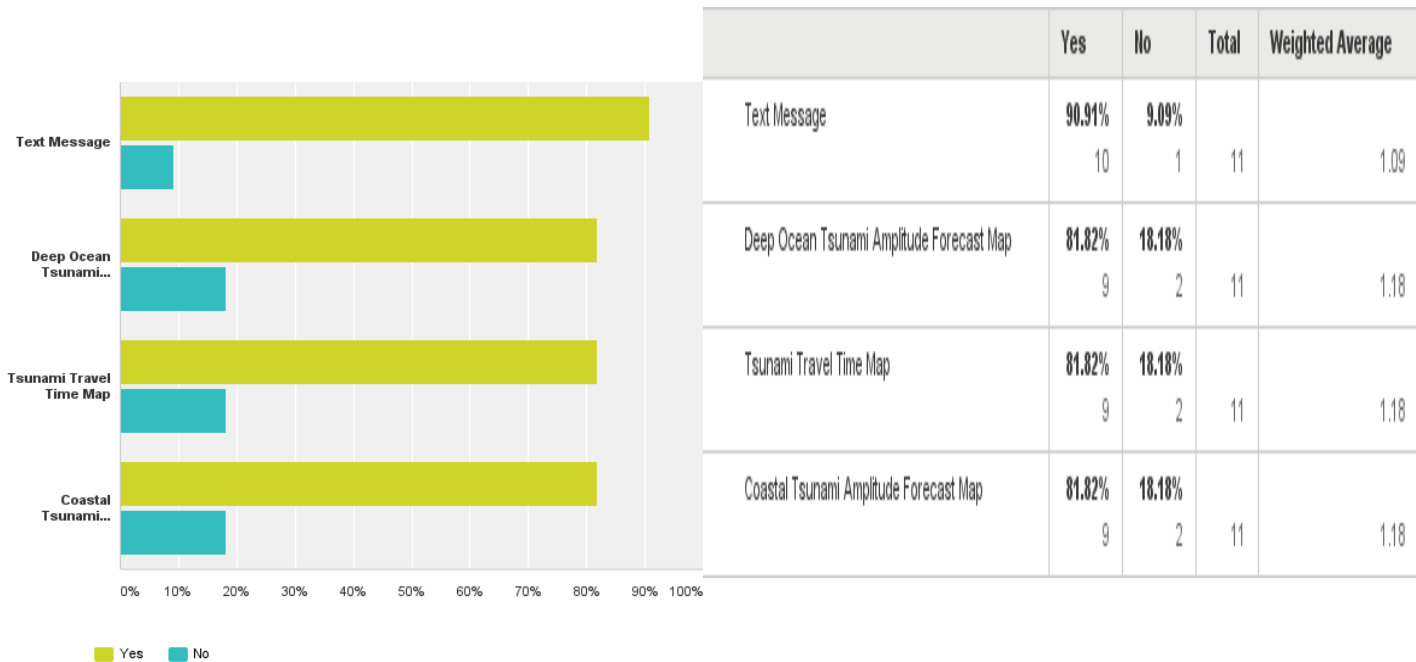


Answer Choices	Responses	
Kuril-Kamchatka Trench (Kamchatka)	18.18%	2
Japan Trench (Off Northern Japan)	0.00%	0
Nansei-Shoto Trench (Ryukyu Islands)	9.09%	1
Manila Trench (Philippines - South China Sea)	45.45%	5
Philippine Trench (Philippines - Pacific Ocean)	0.00%	0
New Britain-San Cristobal trench (Solomon Islands)	27.27%	3
<b>Total</b>		<b>11</b>

# Q9: 1.1 Are the following products useful in helping you assess your national tsunami threat? Indicate Yes or No, and provide comments as needed. Please explain why it is/is not useful.

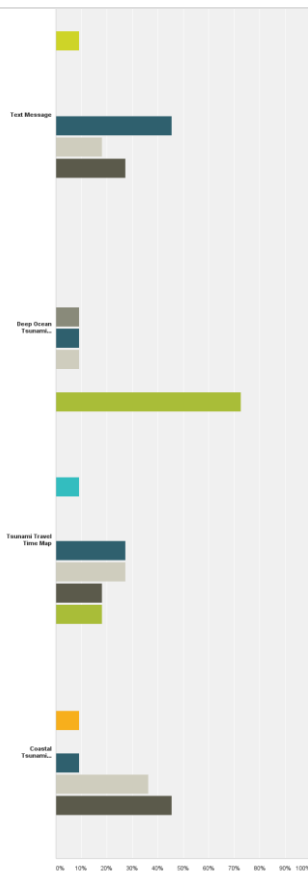
Answered: 11 Skipped: 1

## ➤ Products USEFUL



# Q10: 1.2 Please rank the usefulness of each product, where .1=most useful and 4=least useful.

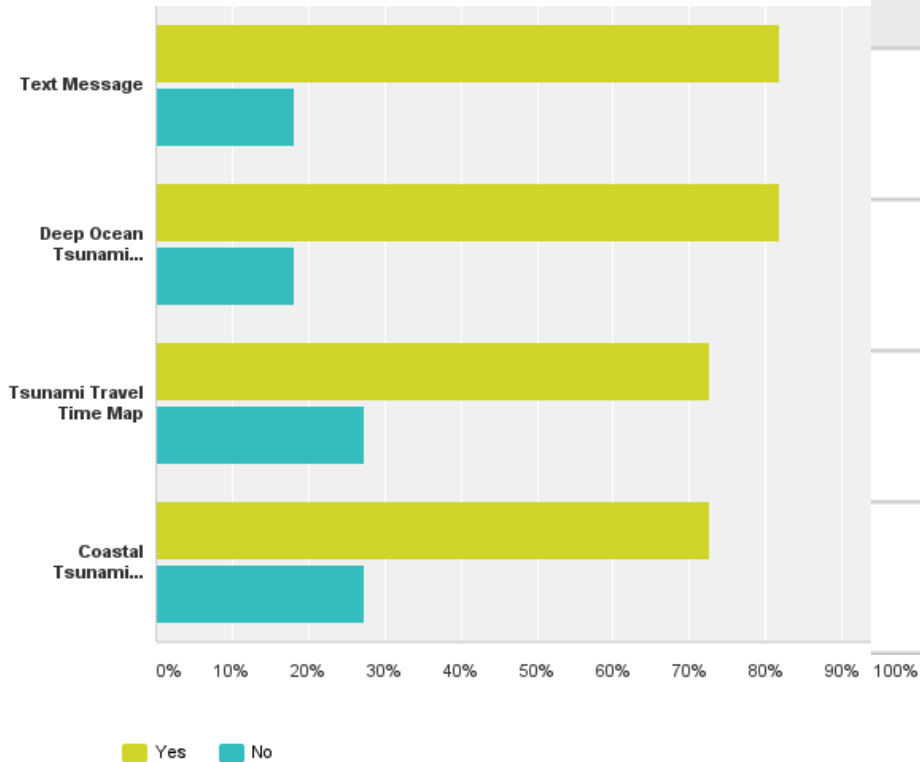
Answered: 11 Skipped: 1



	1	2	3	4	1	2	3	4	Total	Score
Text Message	9.09%	0.00%	0.00%	0.00%	45.45%	18.18%	27.27%	0.00%	11	3.64
Deep Ocean Tsunami Amplitude Forecast Map	0.00%	0.00%	0.00%	9.09%	9.09%	9.09%	0.00%	72.73%	11	1.82
Tsunami Travel Time Map	0.00%	9.09%	0.00%	0.00%	27.27%	27.27%	18.18%	18.18%	11	3.09
Coastal Tsunami Amplitude Forecast Map	0.00%	0.00%	9.09%	0.00%	9.09%	36.36%	45.45%	0.00%	11	2.91

**Q11: 1.3 Is your country satisfied with the format and content of experimental NWPTAC Enhanced Products? Indicate Yes or No, and provide comments as needed. If your answer is No, please provide comments on what improvements are needed.**

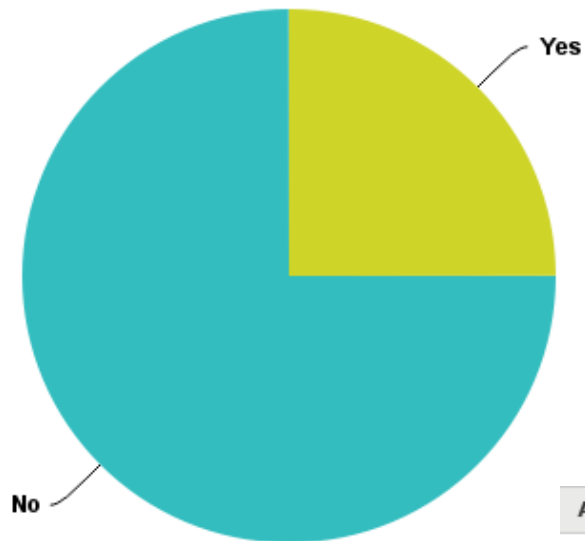
Answered: 11 Skipped: 1



	Yes	No	Total	Weighted Average
Text Message	81.82%	18.18%	11	1.18
Deep Ocean Tsunami Amplitude Forecast Map	81.82%	18.18%	11	1.18
Tsunami Travel Time Map	72.73%	27.27%	11	1.27
Coastal Tsunami Amplitude Forecast Map	72.73%	27.27%	11	1.27

## Q12: 1.4 Do any features, other than listed above, need to be changed or added? If Yes, please comment.

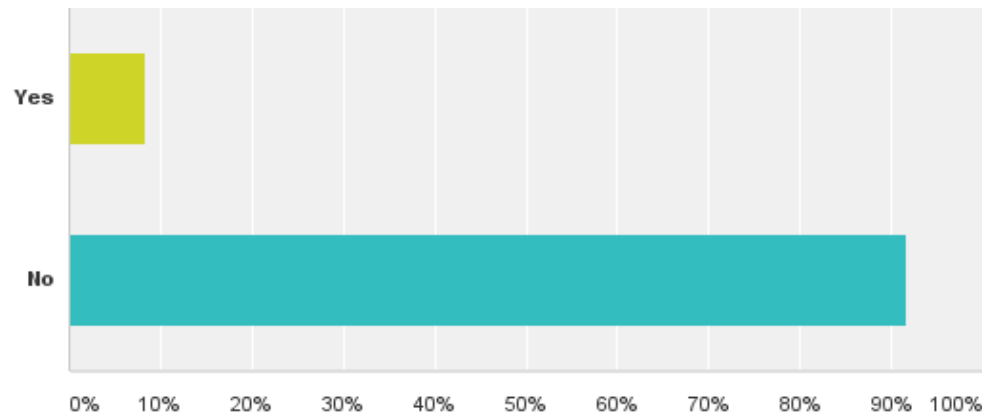
Answered: 12 Skipped: 0



Answer Choices	Responses	
Yes	25.00%	3
No	75.00%	9
<b>Total</b>		<b>12</b>

# Q15: 1.5 Are any parts of the NWP IAC text message or graphical products, other than the actual values of the wave forecasts, confusing or in conflict with the PTWC Enhanced Products? If Yes, please comment

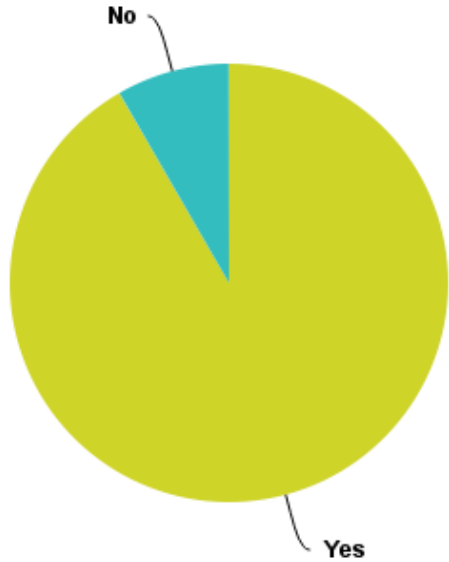
Answered: 12 Skipped: 0



Answer Choices	Responses
Yes	8.33% 1
No	91.67% 11
Total	12

**Q14. 2.1 Does your National Tsunami Warning Centre (NTWC) understand the contents of the NWPTAC Enhanced Products, how to use the Products, and the limitations of the Products? Indicate Yes or No.**

Answered: 12 Skipped: 0

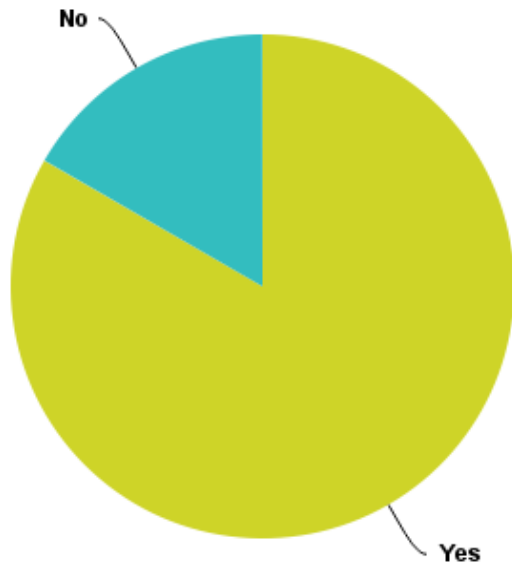


Answer Choices	Responses	
Yes	91.67%	11
No	8.33%	1
<b>Total</b>		<b>12</b>



**Q15. 2.2 Does your National Disaster Management Office (NDMO) understand the contents of the NWPTAC Enhanced Products, how to use the Products, and the limitations of the Products? Indicate Yes or No.**

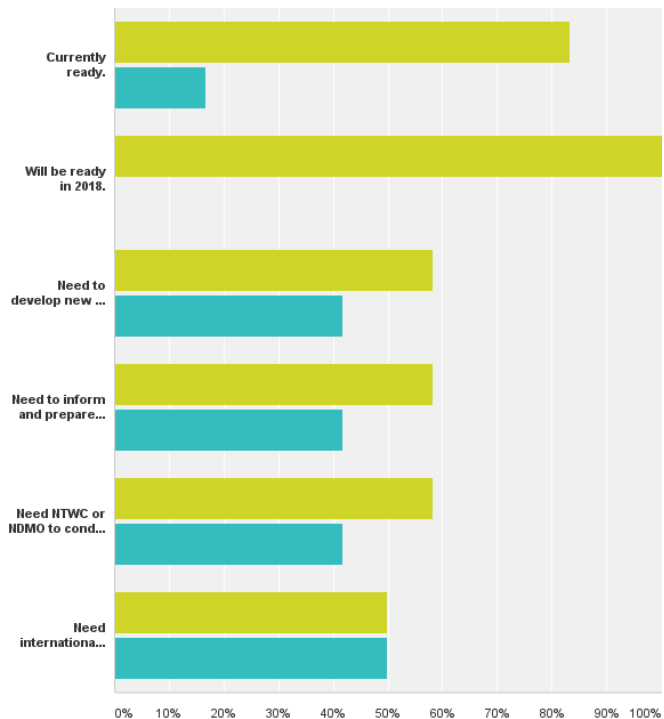
Answered: 12 Skipped: 0



Answer Choices	Responses	
Yes	83.33%	10
No	16.67%	2
<b>Total</b>		<b>12</b>

# Based on the current FTWC Products and/or NWPTAC Enhanced Products. Indicate Yes or No, and provide comments as needed on country status.

Answered: 12 Skipped: 0

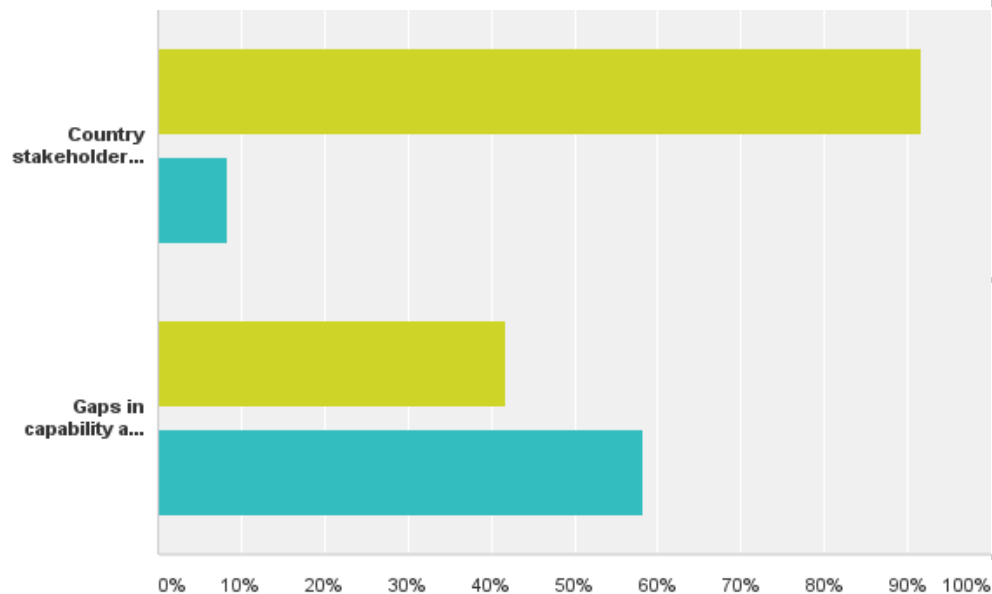


	Yes	No	Total
Currently ready.	83.33% 10	16.67% 2	12
Will be ready in 2018.	100.00% 12	0.00% 0	12
Need to develop new or revise existing SOPs.	58.33% 7	41.67% 5	12
Need to inform and prepare other key stakeholders	58.33% 7	41.67% 5	12
Need NTWC or NDMO to conduct training for their national and local stakeholders	58.33% 7	41.67% 5	12
Need international experts to conduct more training for national stakeholders	50.00% 6	50.00% 6	12

Yes No

## Q17: OVERALL ASSESSMENT. Please provide comments as needed.

Answered: 12 Skipped: 0

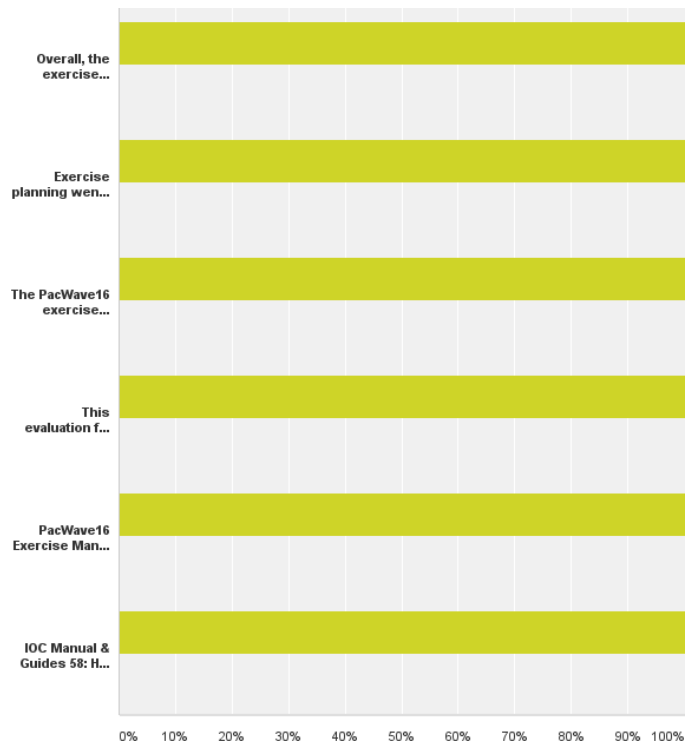


Yes No

	Yes	No	Total	Weighted Average
Country stakeholder agencies have a better understanding of the goals, responsibilities and roles in tsunami emergencies.	11	1	12	1.08
Gaps in capability and capacity have been identified. If Yes, please provide details.	5	7	12	1.58

## Q18: EXERCISE PLANNING. Please provide comments as needed.

Answered: 12 Skipped: 0



	Yes	No	Total	Weighted Average
Overall, the exercise planning, conduct, format and style were satisfactory.	100.00% 12	0.00% 0	12	1.00
Exercise planning went well.	100.00% 12	0.00% 0	12	1.00
The PacWave16 exercise website pages were useful.	100.00% 12	0.00% 0	12	1.00
This evaluation form was easy to use.	100.00% 12	0.00% 0	12	1.00
PacWave16 Exercise Manual provided an appropriate level of detail.	100.00% 12	0.00% 0	12	1.00
IOC Manual & Guides 58: How to Plan, Conduct, and Evaluate IOC Tsunami Wave Exercises was useful.	100.00% 12	0.00% 0	12	1.00

# COMMENTS – Missing or name change

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- **Eastern Parts / Southern Parts of Solomon Islands not fully covered (Rennell, Bellona)**
- **NWPTAC coastal tsunami forecast map does not cover French Polynesia. Moreover have own products /tools - forecast tsunami height >5 archipelagos**
- **Southern half of PNG not included**
- **Regional map showing coasts of South China Sea could be introduced**
- **Add items southern Kuril Islands and Bering Island for calculating time lag and Wave height forecast for Kurilsk (Iturup isl) 45,250° N 147,883°E  
Burevestnik (Iturup isl) 44,990 N 147,646E. Yuzhno-Kurilsk (Kunashir isl)  
Южно- Курильск 44,017° N 145,867° E Malokurilskoe (Shikotan isl) 43,870° N  
146,815° E Nikolskoye ( Bering isl) 55,120° N 165,590° E**

# COMMENTS

## GENERAL

- Very interesting in 1<sup>st</sup> step to evaluate / compare with our model (Tsunami height, seismic fault parameters). Esp 2 runs using 2 faults of focal mech. Very useful.
- One of major gaps will be in event when telecom/internet service providers shut down. Will affect receiving and disseminating of warnings, i.e., PTWC to SIMS/NDMO, and SIMS/NDMO to public. Therefore, EMWIN system must be a backup.

## TRAINING

- Training useful for new officers to learn about Enhanced Products and how to use
- NTWC staff training to continue to improve their analytical skills, understanding the products, SOPs, to reduce response time

## MANUALS – DOCUMENTS

- Used PACWAVE Exercise Manual format to develop our national and location based exercise manuals
- Some manuals too large and have trouble downloading

# COMMENTS

## WENT WELL

- Improve ability of staff in NDMO and NTWC to plan any exercise, coordination of planning between DMO and NTWC went well
- Meetings held among relevant agencies prior to exercise. Press statement regarding exercise was posted few days earlier.
- Local scheduled communication test and master scenario well prepared.
- Information on exercise Pacific Wave 16 available and timely. well prepared in scenario, time line (rundown), personal (operators, facilitator, observer)

## NOT WELL

- Some key response agencies did not attend.

## IMPROVED

- Already established Ex planning Team needs to be resourced or wider circulation of draft amongst team members before TTX.
- Cooperation between NTWC and NDMO could strengthen more for local action.