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IOTWMS Communication Tests 2023/24

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*ICG/IOTWMS Working Group 2
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Communication Tests Background

- Communication tests are conducted between the Tsunami Service Providers (TSPs) and National Tsunami Warning Centres (NTWCs) of the Indian Ocean Tsunami Warning and Mitigation System (IOTWMS)
- The first IOTWMS communication test was conducted in March 2011.
- The 2011 tests were conducted at 3-monthly intervals with TSPs issuing 12 messages each during 3-hour tests.
- Since 2012 the tests have been conducted at 6-monthly intervals with TSPs issuing 4 messages each in 45-minute tests.
- Most recently, the 27th test was conducted in June 2024.

IOTWMS exercises

In addition to the communication tests, six Indian Ocean Wave (IOWave) exercises have been conducted.

- IOWave11 (12 October 2011)
- IOWave14 (9-10 September 2014)
- IOWave16 (7-8 September 2016)
- IOWave18 (4-5 September 2018)
- IOWave20 (6-20 October 2020)
- IOWave23 (4-25 October 2023)

Objectives

The objectives of the communication tests are:

- a. Validate the TSP dissemination processes for tsunami bulletin notification messages to NTWCs,
- b. Validate the reception of the notification messages by NTWCs,
- c. Validate the access by NTWCs to TSP password-protected websites containing bulletins, threat maps and tables of arrival times and maximum wave amplitudes relating to the tsunami scenario chosen for the test,
- d. Validate the reporting by NTWCs of national warning status information back to TSPs, via a web-based warning status report form.

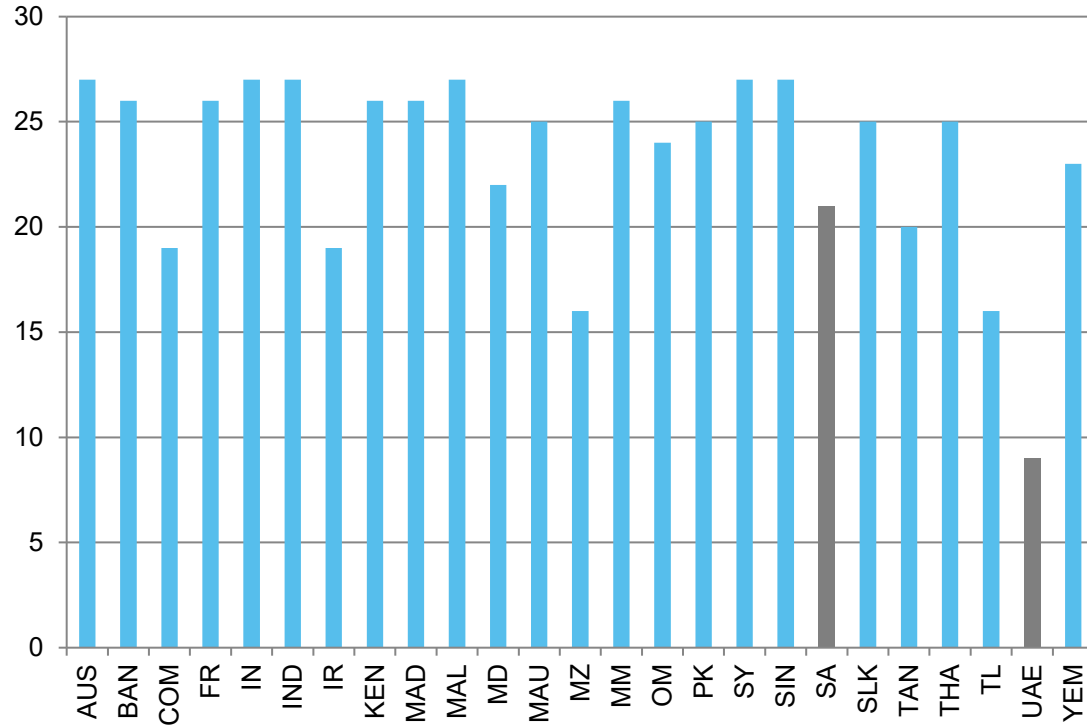
Test Logs

National Tsunami Warning Centres are requested to complete an online Test Log recording:

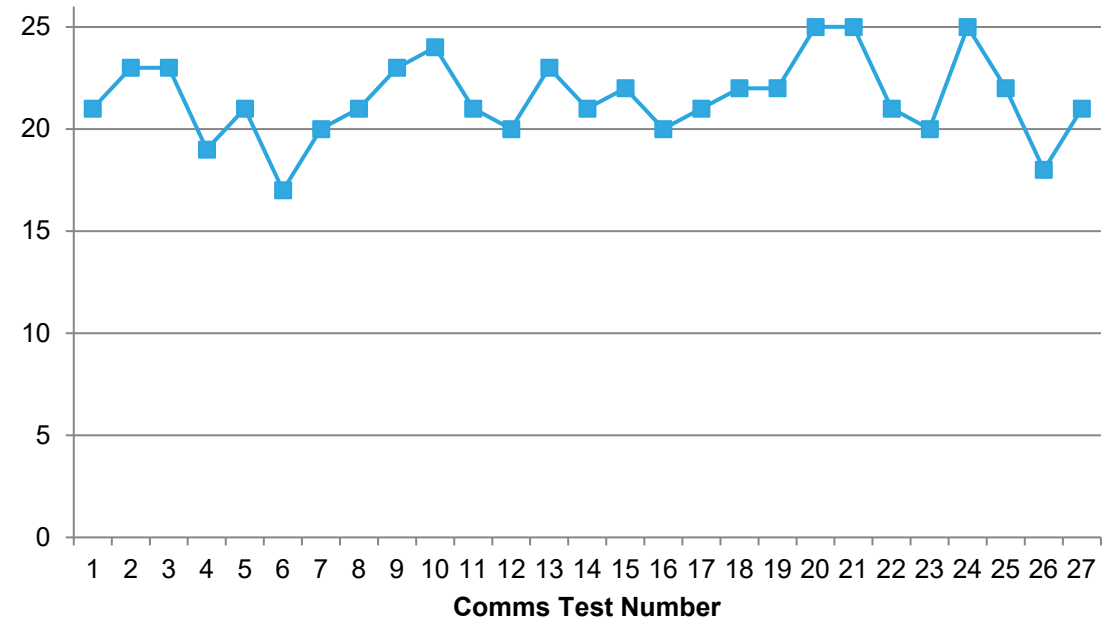
- The arrival times of TSP notification messages at their NTWC for each of the delivery mechanisms (GTS, fax, email, SMS),
- Whether or not the NTWC was able to access the bulletins, maps and tables on the TSP websites,
- The times the NTWC was able to report its national warning status via the web-based reporting form.

Participation

Number of Comms Tests Participated In



Number of Member States Participating (av. 22)



S Africa joined during test #7, UAE joined during test #19

Summary of test results: 2023-24

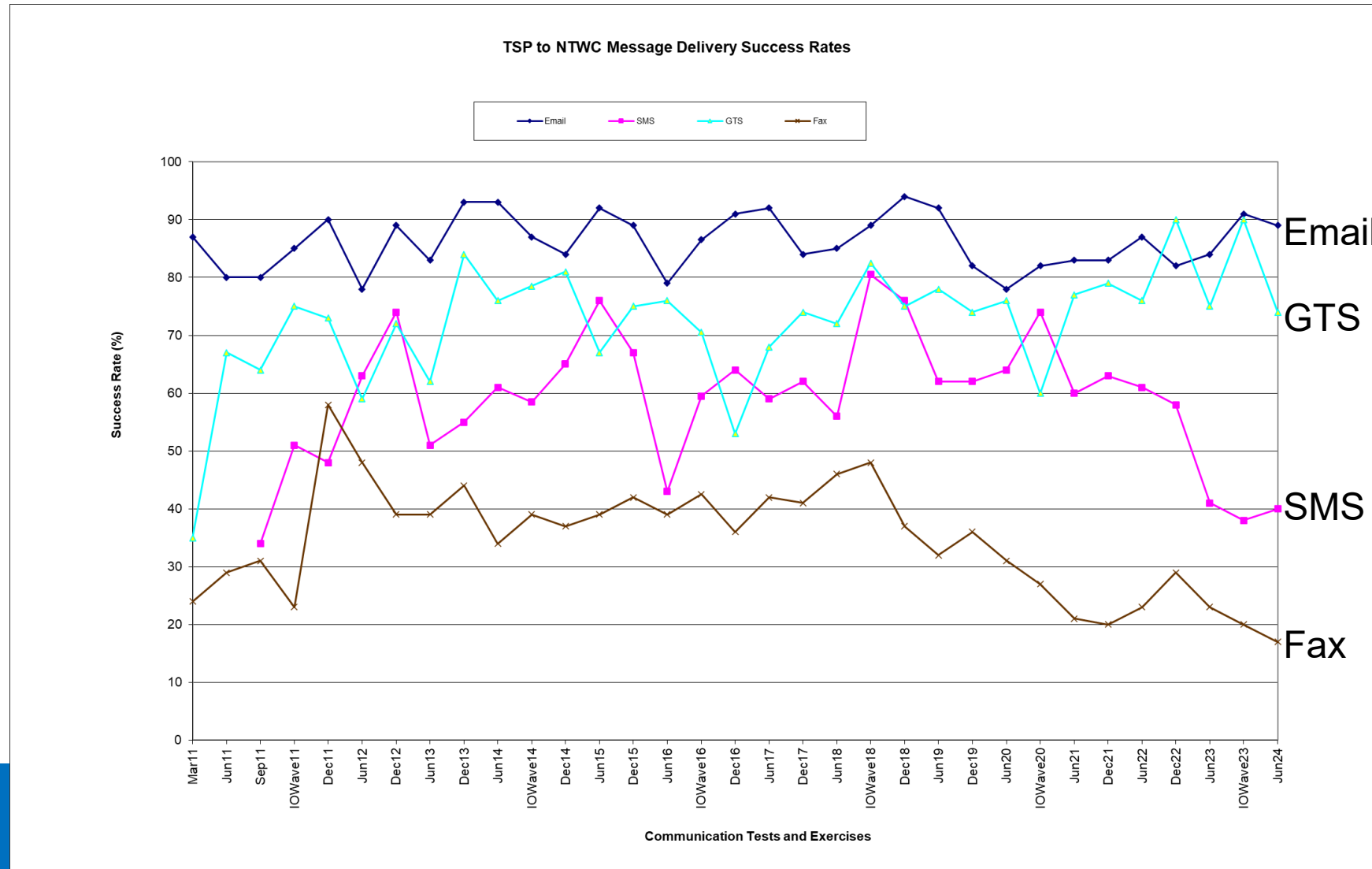
Comms Test 12 Jun 2024

Country	Email	Fax	GTS	SMS	web access	web report
Australia	89%	21%	75%	43%	81%	0%
India	91%	16%	71%	35%	76%	57%
Indonesia	86%	13%	75%	41%	86%	5%
Average	89%	17%	74%	40%	81%	Total = 62%

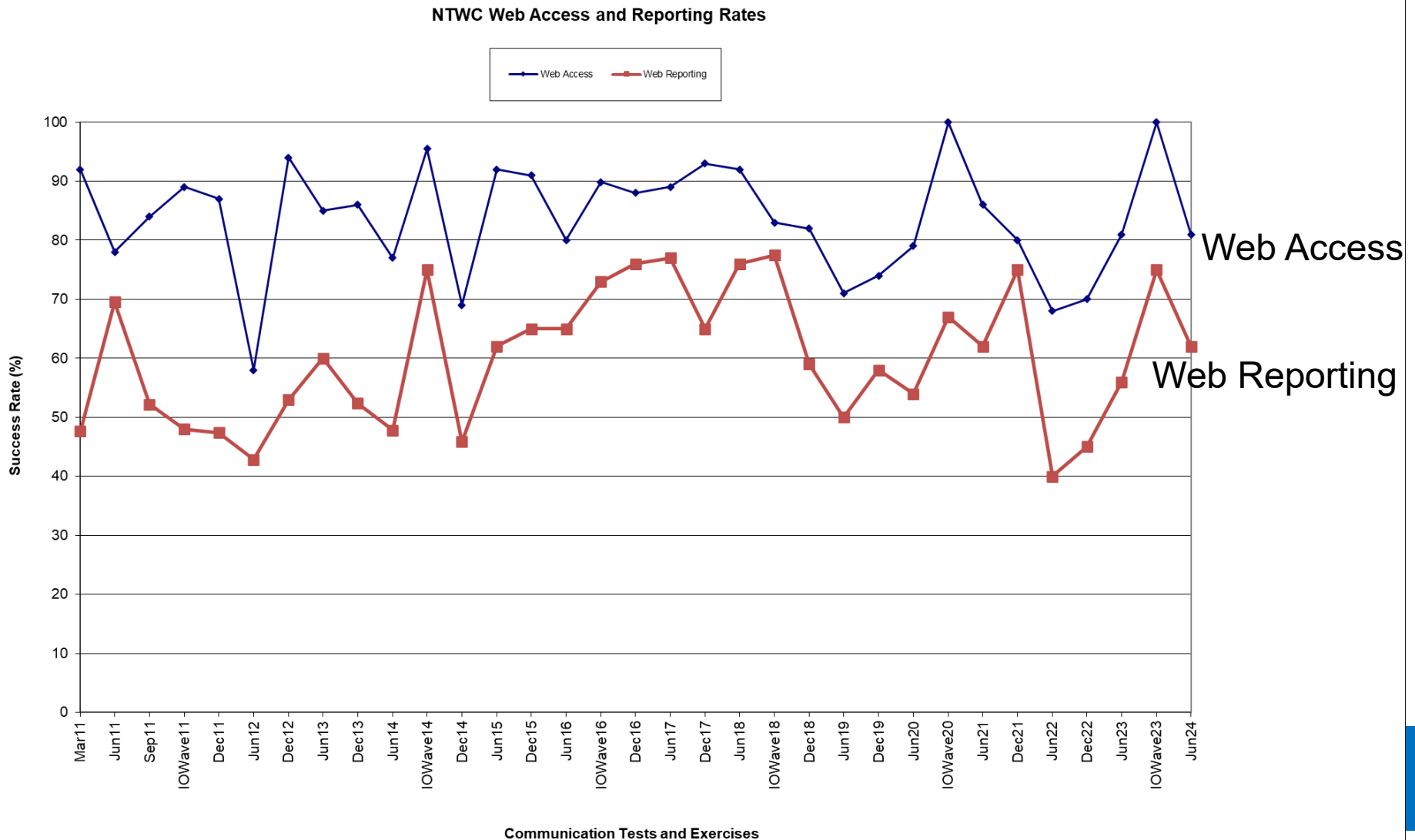
Comms Test 07 Jan 2023

Country	Email	Fax	GTS	SMS	web access	web report
Australia	89%	25%	83%	67%	83%	6%
India	81%	27%	59%	22%	71%	50%
Indonesia	82%	17%	83%	34%	89%	0%
Average	84%	23%	75%	41%	81%	Total = 56%

TSP to NTWC Message Delivery Success Rates – All tests and exercises



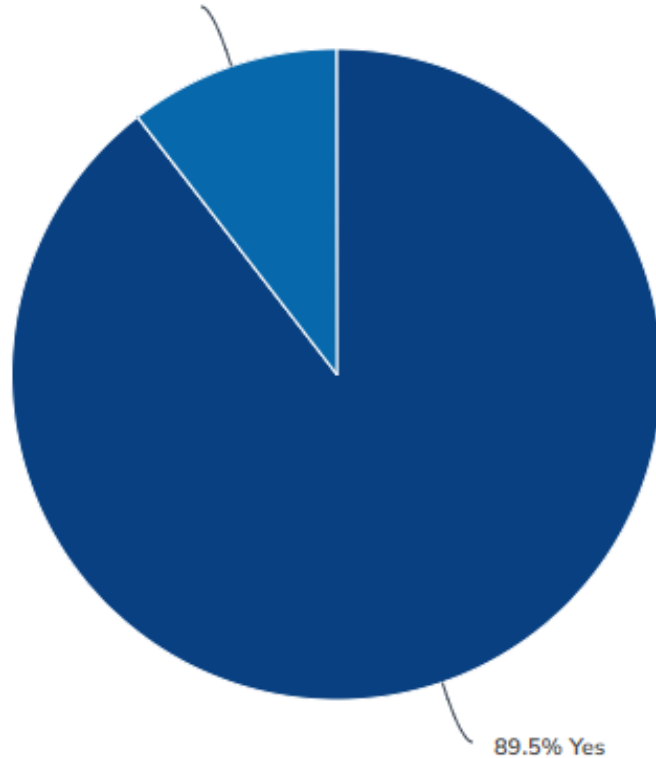
NTWC Web Access and Reporting Rates – All tests and exercises



TSP-Indonesia Warning Receiver System Accessibility

15. Was the TSP-Indonesia Warning Receiver System accessible?

10.5% No



Value	Percent	Responses
Yes	89.5%	17
No	10.5%	2
Totals: 19		

Comments:

- TSP Indonesia warning receiver system has a very good work performance all this time and very helpful to operators.
- The TSP-Indonesia Warning Receiver System is well organised.
- It did not open at first, but after 10 minutes it was working.



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THANK YOU