

**The Malaysian Simulated  
Emergency Test 2019 (MySET)  
Communications Exercise Plan  
Saturday, November 9, 2019  
9 p.m. to 12 midnight**

**Introduction:**

The Malaysian Simulated Emergency Test (SET) will be an annual communications exercise conducted by the Malaysian Amateur Radio Transmitters' Society (MARTS), (Malaysia's amateur radio national society). The purpose of the exercise is to assess the capability of amateur radio operators to provide communications in the immediate aftermath of a natural or man-made disaster. All radio amateurs throughout Peninsular Malaysia, Sabah and Sarawak are encouraged to participate.

The scenario for MySET 2019 in Malaysia will be heavy rain and strong wind due to annual monsoon affecting several areas of Malaysia. The heavy rain and strong wind have approached from the North and going along to the Southern coastlines.

The impact to the area is severe. There is heavy damage on every state. Power grid is down. All land-line, cellular and Internet service is down throughout the entire State. Many utility poles have been blown down and electrical power is out. Coastal highways are damaged. Major highways and roads are impassable due to debris. There is no water and no sewage. ATMs are down, and fuel cannot be pumped due to the power outage. Many homes have been damaged; some have been destroyed. There is major flooding in low lying areas and near the shore line due to the storm surge. At 9 a.m. the ALL CLEAR is issued, and all counties will enter their response phase.

**Objectives for this Exercise:**

The results of this exercise may be used to shape amateur radio communications policy in the future. It is important to assess our ability to provide communications to ensure that amateur radio operators are prepared to respond effectively when a disaster disrupts or overloads normal means of communication.

The specific objective for this communications exercise is to develop a Simulated Incident **Relay** Map for all states. This relay map would be important so that during disaster, information can be sent to its destination efficiently.

Developing this map will also support these important objectives:

- Assess the ability of radio amateurs throughout the State to respond quickly to a catastrophic event, in this case of a major disaster;
- Develop skills to send clear, concise, comprehensive messages;
- Test skills in use of simplex communications;
- Encourage the effective use of communications equipment and methods of operations;
- Confirm our ability to operate entirely off the electrical grid by using batteries, solar panels, generators, etc.;
- Provide a positive environment to learn best practices while having fun.

### **Concept of Operations:**

MySET 2019 will be held on Saturday, November 09, 2019, from 2100 to 0000 hours Malaysia Standard Time (MST) on I) VHF frequencies. II) HF

No conventional repeaters shall be used for this exercise. All stationary VHF and UHF repeaters are to be considered nonfunctional due to damaged antennas, lack of power, or other infrastructure failures.

This exercise will use the hub and spoke method for passing traffic between stations. The exercise shall consist of relaying different messages from different originating stations to the amateur radio NEC (National Emergency Coordinator) station (9M4CMA) in Putrajaya. All messages shall be ONLY relayed via simplex frequencies.

### **VHF exercise:**

1. There will be messages originating from 4 different locations in Peninsular Malaysia.
2. Transmission shall be in voice mode for this exercise.
3. Originating stations are as follows:

- a) Arau (callsign)  
Freq: 144.260MHZ  
Message: R1 WX report suhu degree C  
No casualty
- b) Kota Bahru (callsign)  
Freq: 144.280MHZ  
Message: R2 WX report temperature \_\_ degree F  
Drinking water needed
- c) Kuantan (callsign)  
Freq: 144.300MHZ  
Message: R3 WX report suhu \_\_ degree Celsius  
Need Scouts to help clean up 2

- d) Kulai (9M4COO))  
Freq: 144.310MHZ  
Message: R4 WX report temp \_\_ degree C  
Masih hujan lebat

Putrajaya NEC stations will monitor the following respective frequencies only.  
Remember, the objective is to relay the message so that it will reach NEC station in Putrajaya.

### **HF Exercise:**

1. This exercise covers all Malaysia states including Sabah and Sarawak.
2. Each state will have a SEC (State Emergency Coordinator).
3. Each SEC will collect a report consist of the following from each district in your state
  - a) WX report: temperature, road condition
4. Thereafter relay the information to NEC Putrajaya.
5. If you are unable to send directly to NEC Putrajaya, try to relay the message through other SEC or any stations monitoring who can assist. The goal is to move the messages forward to the addressees by whatever means possible and chart a national relay map.
6. Frequencies to be used are the CoA frequencies of 40m(7.110MHZ)/20m(14.300MHZ)/15m(21.360MHZ)
7. NEC Putrajaya 9M4CMA will monitor on 7.110MHZ.
8. For the purpose of this exercise, SSB voice mode shall be utilized.
9. From time to time, please say "This is an emcomm exercise" so that listeners knows its a SET.
10. Each stations are encouraged to utilize NVIS antennas for effectiveness in close range communication. If you need information on NVIS antennas, please feel free to contact [9m2cio@marts.org.my](mailto:9m2cio@marts.org.my) or [9m2da@marts.org.my](mailto:9m2da@marts.org.my)

Example of transmission:

CQ MySET CQ MySET CQ MySET

This is 9W2XXX calling CQ MySET CQ MySET CQ MySET and standing by.

9W2XXX this is 9W2XXY

There is a message for 9M4CMA in Putrajaya

Please relay

The message is as follows:

R1 WX report suhu 28 degree C

No casualty.

This is an emcomm exercise.

What is my message number? (in series, just like in contests)

Signing off as per amateur radio procedure.

Message form:

MSG. NO.	
MESSAGE FROM	9W2XXX LOCATION:
MESSAGE TO	9w2XXY LOCATION:
CC/FOR	9M4CMA
DATE / TIME	
MESSAGE	
	R1 WX report suhu 28 degree C
	No casualty

Then, originating stations will email these messages to [admin@marts.org.my](mailto:admin@marts.org.my)  
Officers on duty will map the relay map Simulated Incident Relay Map, and this map shall be shared with all amateur radio operators in the country.

We look forward to the cooperation of all amateur radio operators to make this exercise a success.  
We also look forward to future exercises with neighbouring countries in preparedness for disaster communication.

There are also plans to do similar exercises at district and state level in future.