

**Shakeout Winlink Exercise, October 19, 2023**

Exercise ID: 2023SHAKEOUT



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**Scenario**

On October 19, at 10:19 AM your local time an earthquake with [Modified Mercalli Intensity 5+](#) rocks your area.

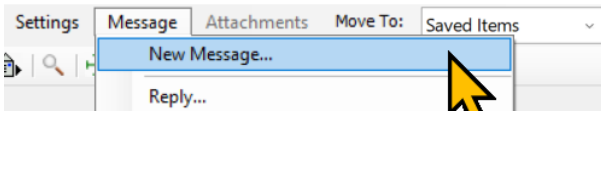
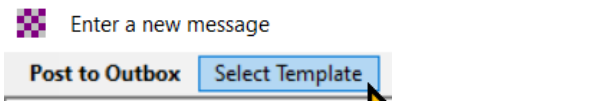
**Please use the Winlink Express to send a USGS DYFI Exercise report with Exercise ID: 2023SHAKEOUT to USGS.**

## Objectives

- Send a **Winlink DYFI report to USGS** and tactical address, QUAKE-23, within 1 (one) hour of the earthquake at 1019 your local time.
  - *Note: It is okay to send your DYFI report later in the day. Some radio operators send their reports after work, for example. But please ensure that your time is 10:19 on the report, regardless.*
  - We coordinated the **Exercise ID 2023SHAKEOUT** with USGS to make Shakeout reports easy to identify. Please use it!
- Use RF if you can, but Telnet is okay, too.

## How to Send a Winlink DYFI Report

Note: Please also ensure that your Winlink Express is a current version. The version number is in the top left of the main window. Example: Winlink Express 1.7.9.1. Form updates are very important as well, and also update, automatically.

<p>On the Winlink Express Menu bar, Click on <b>Message &gt; New Message...</b></p>	 A screenshot of the Winlink Express menu bar. The 'Message' menu is open, and 'New Message...' is highlighted with a blue selection bar. A yellow mouse cursor is pointing at the 'New Message...' option. Other menu items visible include 'Settings', 'Attachments', 'Move To:', and 'Saved Items'.
<p>On New Message form, Click on <b>Select Template</b></p>	 A screenshot of the 'Enter a new message' form in Winlink Express. The 'Select Template' button is highlighted with a blue selection bar. A yellow mouse cursor is pointing at the 'Select Template' button. Other elements visible include a 'Post to Outbox' button and a search icon.

1. Double-click on **Standard Templates**
2. Double-click on **USGS**
3. Double-click on **USGS DYFI.txt**



**After double clicking on USGS DYFI TXT, the report below will appear in your web browser.**

Fill out the form as shown in the example below if you wish to use the minimum default values of a Level 5 Intensity. Items highlighted in **YELLOW** should be entered as noted below.

Lastly, regardless of when you fill out the DYFI report, please set the **Date** and **Time** to **10/19/2023**, at **1019** local time for this exercise.

## Example Winlink DYFI Form Entries for SHAKEOUT (Intensity Level 5)

**Earthquake: Did You Feel it?**

Did You Feel It? (DYFI) collects information from people who felt an earthquake and helps create maps that show what people experienced and the extent of damage.

The USGS email address is filled when clicking SUBMIT below.  
Send the DYFI report to USGS via Winlink Teinet or via RF through any internet connected RMS.

Use this Winlink form to submit **EXERCISE and REAL EVENT earthquake reports** to USGS.  
Learn more about earthquake hazards at the [USGS Earthquake Hazards Website](#) (available online only).

[What is DYFI & More](#)

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>>>> This Earthquake report is a(n)  EXERCISE  REAL EVENT

Optional Exercise ID: 2023SHAKEOUT

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**Did you feel it? (REQUIRED)**

Yes  No

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**Time of earthquake: (REQUIRED)** Local Date and Time Format: 1/31/2020 09:15

Date: 10/19/2023 Time: 10:19 Click Date or Time Field to Modify

*(Opening this form inserts your current Date & Time, you may manually change by click in the field)*

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**Your location - street address, city, and state when the earthquake occurred: (REQUIRED)**

4016 Mount Lee Drive, Los Angeles, CA 90068

For accurate mapping of your location enter GPS coordinates in the following format: 32.504892 -116.982466  
LAT 34.1417 LON -118.3215

*If you have a Winlink Express connected GPS device, the LAT/LON in decimal degrees will be entered for you.*

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*The remainder of this form is optional. If you indicated NO, then do not answer the questions below. If you indicated YES, then the answers below will help to create intensity info for the USGS.*

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**What was your situation during the earthquake?**

Not specified  Inside a building  Outside a building  
 In a stopped vehicle  In a moving vehicle  
 Other Describe:

---

**If you were inside a building, what floor were you on?**

Not specified  Underground  Ground floor  
 2nd Floor  3rd Floor  
 Other:

---

**If you were inside a building, how tall was it?**

Not specified  1 Story  2 Stories  3 Stories  
 Other:

---

**Were you asleep?**

Not specified  No  Slept through it  Woke up

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**Did others nearby feel it?**

Not specified  No others felt it  Some felt it, most did not  Most felt it  Everyone/almost everyone felt it

How would you describe the shaking?

Not specified   
 Not felt   
 Weak   
 Mild  
 Moderate   
 Strong   
 Violent

How did you react?

Not specified   
 No reaction/not felt   
 Very little reaction   
 Excitement  
 Somewhat frightened   
 Very frightened   
 Extremely frightened

How did you respond?

Not specified   
 Took no action   
 Moved to doorway  
 Dropped and covered   
 Ran outside  
 Other Describe:

Was it difficult to stand and/or walk?

Not specified   
 No   
 Yes

Did you notice any swinging of doors or other free-hanging objects?

Not specified   
 No   
 Yes, slight swinging   
 Yes, violent swinging

Did you hear creaking or other noises?

Not specified   
 No   
 Yes, slight noise   
 Yes, loud noise

Did objects rattle, topple over, or fall off shelves?

Not specified   
 No   
 Rattled slightly  
 Rattled loudly   
 A few toppled or fell off   
 Many fell off  
 Nearly everything fell off

Did pictures on walls move or get knocked askew?

Not specified   
 No   
 Yes, but did not fall   
 Yes, and some fell

Did any furniture or appliances slide, topple over, or become displaced?

Not specified   
 No   
 Yes

Was a heavy appliance (like a refrigerator or range) affected?

Not specified   
 No   
 Yes, some contents fell out  
 Yes, shifted by inches   
 Yes, shifted by a foot or more   
 Yes, overturned

Were free-standing walls or fences damaged?

Not specified   
 No   
 Yes, some were cracked  
 Yes, some partially fell   
 Yes, some fell completely

Was there any damage to the building? (multiple selections OK)

No damage  
 Many large cracks in walls  
 One or several cracked windows  
 Old chimney, major damage or fell down  
 Separation of porch, balcony, or other addition from building

Hairline cracks in walls  
 Ceiling tiles or lighting fixtures fell  
 Many windows cracked or some broken out  
 Modern chimney, major damage or fell down  
 Building permanently shifted over foundation

A few large cracks in walls  
 Cracks in chimney  
 Masonry fell from block or brick wall(s)  
 Side walls tilted over/collapsed completely

Additional comments: (Max 400 Characters)

Nature of the building (such as building floor or height), other damages seen in your area, or any other comments you might have.

**Optional**

Would you like to fill out additional questions about Early Earthquake Warning (EEW) and/or your response to this earthquake?

*Reminder: All amateur Radio traffic is public.*

[Click to toggle EEW Survey on or off](#)

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## Winlink DYFI Form Entries

Entries highlighted in YELLOW are the same for all Shakeout participants using Winlink.

Entries highlighted in GREEN are user specific.

This Earthquake report is an	<b>EXERCISE</b>	
Exercise ID:	<b>2023SHAKEOUT</b>	<b><u>USGS is asking that all Winlink participants use the same Exercise ID of 2023SHAKEOUT</u></b>
Did you feel it?	<b>YES</b>	
Date:	<b>10/19/23</b>	
Time:	<b>10:19</b>	Note: time is local time
Your location:	<b>Enter your complete street address (No P.O. Box numbers, Please)</b>	Format example: 1234 Main St., Anytown, CA 11111, USA

<p>GPS coordinates:</p> <p>Although marked “Optional,” please attempt to fill out the decimal coordinates.</p>	<p>Enter your latitude and longitude in decimal degrees.</p>	<p>4 decimals preferred, e.g. 34.1431, -118.3215</p> <p>Youtube: <a href="#">How to check your latitude and longitude using Google Maps.</a></p>
<p>Intensity Survey Questions:</p>	<p>Answer as if reporting an earthquake with Modified Mercalli Intensity of 5 or higher.</p>	<p>Youtube: <a href="#">Winlink USGS DYFI Step-by-step Instructions</a></p> <p>PDF: <a href="#">Winlink USGS DYFI Example Answers for MMI 5 Earthquake</a></p>

**Use these settings to achieve a Default Intensity Level 5 result.**

- What was your situation during the earthquake? **Inside Building**
- If you were inside a building, what floor were you on? **2<sup>nd</sup> Floor**
- If you were inside a building, how tall was it? **2 stories**
- Were you asleep? **NO**
- Did others feel it? **Everyone/most everyone felt it**
- How would you describe the shaking? **Strong**
- How did you react? **Excitement**
- How did you respond? **Dropped and Covered**
- Was it difficult to stand/and or walk? **NO**
- Did you notice any swinging of door or other free-hanging objects? **Yes, slightly Swinging**
- Did you hear any creaking or other noise? **Yes, Loud noise**
- Did objects rattle, topple over, or fall off shelves? **Rattled loudly**
- Did Pictures on walls move or get knocked askew? **Yes, but did not fall”**
- Did any Furniture or appliances slide, topple over or become displaced? **NO**
- Was a heavy appliance (lie a refrigerator or range) affected? **NO**

<ul style="list-style-type: none"> <li>- Were free standing walls or fences damaged? <b>Not specified</b></li> <li>- Was there any damage to the building? <b>Hairline cracks in walls</b></li> </ul>	
Additional comments:	<p>Enter any additional information.</p> <p>For example, As an option, enter your agency or group name (FEMA Region 5 Winlink Net, Boone County EMA ACS, etc.) or the mode (Telnet, VARA FM or HF, Packet, PACTOR, Mesh)</p>
EEW Survey:	<p><u>Optional Earthquake Early Warning (EEW) survey</u> (does not affect the intensity calculations). You may provide USGS with sample data, if you wish, however, <u>not required</u>.</p>
<p><b>ONCE you have filled out the Report, Click on SUBMIT, but first review “WHO GETS THE MESSAGE” and “Submitting the Report” (below).</b></p>	

Once you Submit the Form, the Intensity level will appear. Click on CONTINUE. Then close the Browser. You will see the outgoing message. Then **Post to OUTBOX**. (For more detailed information, see the sample report on page 8)

## WHO GETS THE MESSAGE?

### Winlink DYFI Message To and CC

**(VERY IMPORTANT: Please manually add the Tactical Address QUAKE-23 to the CC of the Message).**

To:	<b>dyfi_reports_automated@usgs.gov</b>
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	Note: this is the official USGS address; it is automatically filled in; leave as is please. Note: You must <b>send the report via an internet connected RMS gateway or via Telnnet</b> for USGS to receive it. USGS does not monitor P2P or Radio-Only.
Cc:	<b>QUAKE-23</b>  <b><i>Note: please add the CC addresses manually.</i></b>  Explanation of (CC:) <b><i>This is very important:</i></b> <ul style="list-style-type: none"> <li>❖ <b>QUAKE-23</b> tactical address that provides your DYFI to a number of government agencies other than USGS.</li> </ul> <p>You may add additional localized CC: addresses if you and your group wish to receive DYFI reports locally.</p>

### Submitting the Report.

Commented [sW1]:

Once responses are complete, please Submit. The resulting intensity level will appear, then click on Continue.

#### Did You Feel It - Intensity

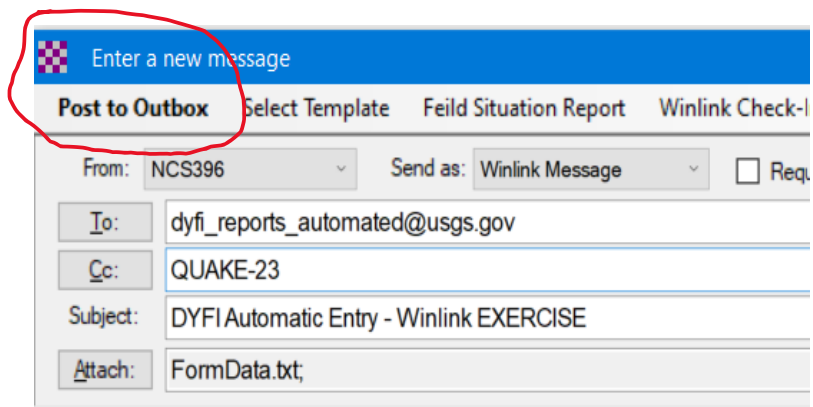
Below is an estimate of the intensity you reported from your location.  
Click Continue to submit your report.

Intensity	Strength	Description
V	Moderate	Felt by nearly everyone; many awakened. some dishes, windows broken. Unstable objects overturned. Pendulum clocks may stop.

To complete your form submission, click Continue and close the open browser window.  
You will return to the new message window so you can post your message to the outbox.

Continue

Close your Browser, and view the message. Place the Tactical address, QUAKE-23 in the CC: and Post to Outbox.



The screenshot shows an email composition window with a blue header bar that says "Enter a new message". Below the header is a menu bar with options: "Post to Outbox", "Select Template", "Feild Situation Report", and "Winlink Check-l". The "Post to Outbox" option is circled in red. Below the menu bar are fields for "From:" (NCS396), "Send as:" (Winlink Message), and a "Req" checkbox. The main body of the form contains fields for "To:" (dyfi\_reports\_automated@usgs.gov), "Cc:" (QUAKE-23), "Subject:" (DYFI Automatic Entry - Winlink EXERCISE), and "Attach:" (FormData.txt).

Send message!

## ShakeOut Resources for Exercise Participants:

Commented [sW2]:

### RATPAC

[Planning for the Great California Shakeout '22](#)

### WaveTalkers

Check out the [WaveTalkers Shakeout presentation by Oliver, K6OLI](#).

#### Chapters

[ShakeOut Exercise for Volunteer Radio Groups](#) (10:15)

[Survey and Respond with Winlink](#) (16:53)

[Winlink GPS Information](#) (34:00)

[Winlink DYFI Form Step-by-step Walk-through](#) (35:34)

[Mapping Received DYFI Reports Locally in Winlink](#) (49:31)

[Questions and Answers Session](#) (53:34)

## Shakeout and USGS Resources

Commented [sW3]:

### Register Your Group/agency with ShakeOut

Although, not required, group coordinators are encouraged to register their volunteer group, or agency. Registration is free and ShakeOut will provide a *Certificate of Participation*.

[Register here](#)

See the other [Volunteer Radio Groups](#) registered for Shakeout.



## Modified Mercalli Scale

Commented [sW4]:

### Modified Mercalli Intensity

Table below shows the Modified Mercalli Intensity scale, which describes the intensity of earthquake shaking and the effects of that shaking at a given place.

Modified Mercalli Intensity (MMI) is based on human perception and traditionally designated by Roman numerals (for example, IV, V, and VI), however the ShakeAlert system uses instrumental measurements to estimate "instrumental intensity and uses Arabic numbers for example, 4, 5 and 6

Intensity	Shaking	Description
I	Not Felt	Not felt except by a very few under especially favorable conditions.
II	Weak	Felt only by a few persons at rest, especially on upper floors of buildings
III	Weak	Felt quite noticeably by persons indoors, especially on upper floors of buildings Many people do not recognize it as an earthquake. Standing motor cars may rock slightly. Vibrations similar to the passing of a truck Duration estimated.
IV	Light	Felt indoors by many, outdoors by few during the day. At night, some awakened. Dishes, windows, doors disturbed, walls make cracking sound Sensation like heavy truck striking building. Standing motor cars rocked noticeably
V	Moderate	Felt by nearly everyone; many awakened. Some dishes, windows broken. Unstable objects overturned. Pendulum clocks may stop.
VI	Strong	Felt by all, many frightened. Some heavy furniture moved; a few instances of fallen plaster. Damage slight
VII	Very Strong	Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures, considerable damage in poorly built or badly designed structures, some chimneys broken
VIII	Severe	Damage slight in specially designed structures; considerable damage in ordinary substantial buildings with partial collapse Damage great in poorly built structures Fall of chimneys, factory stacks, columns, monuments, walls Heavy furniture overturned
IX	Violent	Damage considerable in specially designed structures; well-designed frame structures thrown out of plumb. Damage great in substantial buildings with partial collapse Buildings shifted off foundations
X	Extreme	Some well-built wooden structures destroyed; most masonry and frame structures destroyed with foundations Rails bent.

More information: <https://www.usgs.gov/programs/earthquake-hazards/modified-mercalli-intensity-scale>

## Acknowledgements

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