

APPENDIX C: INSTRUCTIONS FOR FIELD INVESTIGATORS AND LINKS TO SURVEY123 FORMS

Roles and Responsibilities for Data Collection

Welcome to the Clearinghouse. These instructions will save you time, ensure your safety, improve your access to damage sites, ensure that your observations will be noted and used by other field investigators, and subsequently archived.

Geologists/Geoscientists: Geologic field investigators are expected to assess the nature and extent of:

- Earthquake-induced ground effects, for instance, ground rupture and liquefaction.
- Tsunami impacts: runup, flow depth, maritime damage, debris, and tsunami deposits.
- Landslide features: impacted area, scarp, runout, and secondary hazards.
- Volcanic deposits and impacts as requested by USGS CVO.

Geologists and geotechnical engineers are asked to report their findings on the Clearinghouse Survey123 forms developed by the Washington Geological Survey. These survey forms, which provide a systematic field assessment of different hazard parameters (such as fault rupture, liquefaction, tsunami extent, landslide area), are available using the QR codes to the right, or the links and QR codes at the beginning of this plan and the end of this appendix. It is strongly preferred that you collect data using only the Survey123 forms. If you would like to collect geologic data using a different approach (such as FieldMaps or a field notebook and GPS), please also fill out a Survey123 form so that we can track where data has been collected and then coordinate with the Data & IT committee to submit your data.

Engineers: Engineering field investigators are expected to assess the nature and extent of earthquake or tsunami ground effects and damage to structures and infrastructure. In addition to documenting structural damage, field investigators should attempt to determine failure mode, factors such as geologic site effects that may have contributed to failure, possible implications of the damage, and any secondary impacts. It is also important to mark where buildings were not damaged. Engineers will report their findings on the Field Investigation form developed by EERI.

Social Scientists: Social Scientists are expected to gain an overview of the impacts of the hazard on human behavior and community institutions, noting where possible, impacts on at-risk, populations, government operations, and commercial and economic activity. Social scientists are responsible for their own data collection methods adhering to ethical human data collection practices.

All Investigators: Before you leave for the field, please do the following:

1. Sign in at the physical registration table or sign in virtually.
2. At the information table, collect all press releases, most current fact sheets, daily damage updates, and information about local conditions, road closures, water, power, communications status, and sanitation availability.
3. Access Survey123 forms from the Clearinghouse webpage here: dnr.wa.gov/clearinghouse/forms.
4. Pick up and fill out a release form at the Clearinghouse sign-in table.
5. Conduct a daily tailgate meeting with your field team prior to leaving the Clearinghouse, referencing the safety notes and procedures outlined in *Appendix D*.
6. In addition, perform the following steps to help you maximize your effectiveness as a Clearinghouse participant:
 - a. Coordinate your planned field investigation with the Clearinghouse Manager

- b. While in the field, complete a Survey123 form associated with the hazard (earthquake, tsunami, or landslides) for each major hazard feature or site you visit.
- c. Additional photos, videos, or media outside of the Survey123 form will be submitted through Box (deptofnaturalresources.box.com/s/74c0ckj4fnsoukxgpmoctquapkp271uk). Include your name, date, location, and description of each additional media upload to Box.
- d. Each evening, field investigators return to the Clearinghouse for a debriefing session. We encourage your participation.
- e. Ensure that each Survey123 form gets successfully submitted so your observations can be incorporated into the damage and effects database. GIS maps will be generated and regularly updated from that database.
- f. At the end of each field day, check out with the Clearinghouse to help ensure all field teams end the day in a safe place.
- g. Every morning, before heading back out into the field, please coordinate with the Clearinghouse (or visit the website if it is updated) to pick up the updated damage reports, fact sheets, and GIS maps that will help you focus your investigations and communicate with the public while in the field.

Survey123 Forms Information and Links

The Clearinghouse will primarily use Survey123 forms to collect field data including location, geologic observations, photos, and other important information. Individual Survey123 forms were created for each of the major geologic hazards (earthquakes, tsunamis, landslides). The Survey123 forms are strongly preferred, but for field investigators who would like to use FieldMaps to collect detailed geologic information, please work with the Data & IT committee to ensure your data are collected and combined with the Survey123 data.

Data submitted from these forms will be reviewed and incorporated into digital and print map products by the Data and Outreach committees that will be used to communicate spatial geologic information with the Clearinghouse and public. Examples of these products include interactive ArcGIS Online web applications, dashboards, printed hazard location maps, etc.

- Each Survey123 form includes instructions for how to fill out field data collection information specific to the natural hazard.
- You do not need an ArcGIS Online subscription to fill out the Survey123 form.
- Anyone with access to the Survey123 link or QR code (below) can fill out and submit a form on their mobile device or laptop.
- Forms can be accessed through any web browser or by downloading the Esri Survey123 application on your mobile device.
- The Survey123 forms allow you to take representative photos using your device within the form, please use this function within the form as it will attribute and geolocate the photos.
- Survey123 also allows for drawing lines and polygons in addition to collecting point data. Some of the Clearinghouse forms have options to collect these features.
- Any data collected as a part of the Clearinghouse effort will be checked for quality and accuracy before being made public. Keep in mind that none of the data provided to WGS as a part of the Clearinghouse can be kept confidential.

Link to the Survey123 field data collection forms

dnr.wa.gov/clearinghouse/forms

