

2014 Cascadia subduction zone Earthquake and Tsunami Exercise

Field Team: Tsunami Science

<http://tsu.cascadiageo.org>

When activated by our regional Coordinator, the team leaders will direct their team to deploy to predetermined tsunami observation locations/regions. The team will provide, to the clearinghouse or CGS basecamp, observations in real-time in addition to post-tsunami information. The tsunami team members will have multiple ways to digitally communicate their observations with those who need access to that information.

Team members will have a notebook and other data collection tools ready to go. The notebook will have contact information for pertinent emergency and maritime managers. Team members will also have data collection templates in their notebook, so they can make hand written notes to compliment the digital data collections that are uploaded via the clearinghouse or other data sharing system.

This exercise will be initiated by the CGS State Geologist and the CalOES Earthquake and Tsunami Program manager. Also, after the exercise is over, they will be responsible for deactivating the field teams.

Team Member:

Remember first of all to never put yourself in harm's way for science!

Prior to this exercise, your team leaders will provide you with some pre-event tasks (eg. set up an account on spotonresponse and the CGS basecamp site).

On the day of the exercise, you will be contacted by your team leader and they will provide some basic instructions. You will head to the field to make observations and provide those observations to the clearinghouse/basecamp information system. The field may be your office or a real field location, whichever works best for you. You may be contacted during this exercise or after the exercise, by people to ask you about your observations. You will be contacted by your team leader to ask a series of questions designed to assess this exercise so we can improve our response in the future.

Goals for this exercise:

.1. how well are our directions written and how well can people follow our directions?

We will provide the team members with a short task list. Afterwards, we will contact the team members and ask them a scripted set of questions. This post response questionnaire will be created in order to assess (1) the directions, (2) the comprehension of the directions, and (3) the ability to do what the directions requested.

.2. are team members successful with electronically uploading their observations (written and photo or video)?

We will be using three main tools: the clearinghouse spot on app, email (by phone or computer) to basecamp, and sms texting submission to basecamp.

.3. can people upstream in hierarchy contact team members to ask questions about their observations (or to ask them to make additional observations)? Or, can field team members interact with members of other teams or levels in the UICDS?

We will ask those hierarchically upstream of the field teams to interpret the observations provided by our team. After the exercise, we will ask these people how they understood the observations. We will have a questionnaire designed to assess similar to goal 1 above.

.4. are the schema for the observations understood by those upstream of the field team (e.g. coordinators, management)?

We will have questions in the questionnaire for goal 4 that also assess the schema we used.

.5. the goals for our team members will be the following (to be integrated into our insert above)

- i. Make quantifiable observations of tsunami run-up. This may include photos, videos, or detailed sketches in your notebook. Take time to ensure there are objects for scale and that those notes are included when you upload your observation.
- ii. Respond to hierarchically upstream exercise participants. Expect to be contacted by someone who is a regional coordinator or emergency manager. They may ask you to provide additional information about your observation. Please use your notebook to take detailed notes.
- iii. Participate in post event surveys to help assess this process so we can improve it next time.