| | | |
|---|---|---|
| 6-Feb | 0:00 | **EM1.** Welcome to the simulation! An Emergency Management (EM) team works together to mitigate crises. As there is no reported volcanic unrest in Auckland, at this time, you can consider yourselves in 'planning and preparation' mode - The tasks that you must complete together: 1. Introduce each member's role and responsibilities. Each member should talk about their specific strategies and considerations that you have for your individual sector 2. The Controller and Duty Manager should explain the protocols for the **flow of communication** within the EM, and to the GeoNet Team. 3. **All team members** should think about how they will contribute to decision making. And record your thoughts and observations on your Data logs. **You have 10-15 minutes** |
| 6-Feb | 0:00 | **GeoNet1**. Welcome to the simulation! Your job is to assess background levels in and around the Auckland Volcanic Field. 1. **The Section Manager** is advised to visit all of the monitoring stations and briefly introduce yourself, and your role. **2. The Section Manager should explain the protocols for the flow of communication within the EM, and to the GeoNet Team. 3. All team members should think about how they will contribute to decision making. All team members** should record your thoughts and observations on background levels at the volcano in your Data logs. **Discussions should take ~ 10-15 mins** |
| 6-Feb | 0:00 | **EM2.** Following EM team meeting, the **Duty Manager** is requested to touch base with the Geonet public information officer and clarify the flow and modes of communication between the GeoNet team, and the EM team. The crisis information manager should be observing the "Newsfeed" at all times. **This should take ~ 10-15 minutes** |
| 6-Feb | 0:00 | **GeoNet2**. **The GeoNet Field Team** is advised to list and describe all of the methods for monitoring volcanoes in the field. Separate out these data types into - Proximal and Distal categories. Check with the Field Volcanologist Specialist if all of these are possible in the Auckland Volcanic Field (AVF). Assess whether 'traditional' monitoring methods are applicable in Auckland. List the most important barriers to active monitoring in and around a city center. Implement a two-week plan of fieldwork that should help to collect background activity for the volcanic field. Fill out, and get the necessary 'Field Work Risk Assessment' forms signed by your superior. You should spend **~ 10-15 minutes doing this.** |
| 23-Feb | 0:00 | **GeoNet3**. There has been seismic activity in Auckland. The **whole GeoNet team** must prepare a **8 minute** (2 minutes for questions), Press Conference to address several questions: a. A brief overview of Auckland Volcanic Field (in lay speak) and Geophysicists should explain/hypothesize why the earthquakes have occurred; b. The volcano geophysicist(s) are asked to describe and explain the fundamental difference (geological processes, and monitoring) between high frequency and low frequency earthquakes; c. Status of Auckland's Volcanic Alert Level, and d. Confer with EM team on general advisory to the public. Section Manager should work democratically with all GeoNet members, and the Public Information Officers should assist in format, phrases, wording and tone of the message to the public. **You have 20 minutes to prepare**. **All team members should participate** in this discussion (see **GeoNet Volcanic Eruption Meeting Agenda**) record your thoughts on your Geological Data log |

| | | |
|---|---|---|
| 23-Feb | 0:00 | **EM3.** There has been seismic activity in Auckland, and so **your whole team** is meeting to discuss how this may play out in the media. The **Public Information Releases Manager** is asked to explain to the group how they think media should be handled. **Each person in the team** should consider if there are any impacts to your sector. Discuss, and release a Volcanic Impacts Report (that goes to the National CDEM group), a written Media Release (to the public). **You have 20 minutes**. A brief (10 minute) Press Conference will be held by the GeoNet team. All team members should record your thoughts on your Emergency Management Data logs during the conference |
| 23-Feb | 0:00 | **EM4. Following the Press Conference, the Public Information Releases Manager** should work with the **Group Controller** to critique the press conference. Ask the **Public Information Director** to fill out a Rubric and communicate the results with both teams. How did it go? What went well? What did not go well? Language.. (**Spend a maximum of 10 minutes on this**) |
| 25-Feb | 8:00 | **EM5.** The Government wishes to know what makes a good location for an evacuation center. The **Welfare Manager** and the **Planning and Intelligence Manager** should prepare a short report describing the attributes they look for in an evacuation center to be sent to the government (Prime Minister). The report should address issues such as choice of locations, supplies and transportation. Consider what external agencies might be able to assist at the center. (You have **5-10min** to complete this report signed of by the Group Controller, handed to the Prime MInister, ask them to critique it and hand it back when done) |
| 8-Mar | 16:00 | **EM6. Each member of the EM team gets to submit a question** that will be used in a 10-min interview of the GeoNet Section Manager. Pretend that you are a member of the public, with little to no understanding of volcanoes. Vote as a team, and select 4 questions to go to the interview stage. Elect one member of the EM team to pretend to be a famous New Zealand Journalist. **You have 10 minutes to prepare.** Observe the interview, and critique the Section's Managers responses in your Data logs**. Use this information to construct a group policy around communication with the public.** |
| 8-Mar | 16:00 | **GeoNet4**. Have a brief discussion among the GeoNet team to inform the Section Manager the status of each type of monitoring data. **The public information officers** should then assist **the Section Manager** in preparing for an unscripted Media Interview about the status of volcanism in Auckland. During the interview planning, the **Field team** should be planning future fieldwork, and consulting with the rest of the GeoNet monitoring team when needed. Read, and Prepare 'Field Work Risk Assessment' forms for future field missions. (Field team has 10-15 minutes to do this) **Preparation - 10 minutes, Interview 10 minutes.** |

| | | |
|---|---|---|
| 8-Mar | 20:00 | **EM7. The EM team** should work together to practice planning for a fake eruption scenario. Use the following information to help plan your response: A Vulcanian eruption sourced from a vent in Manukau Harbour ~2km offshore of Titirangi (directly south) and has an effected area of ~2.5 km radius from the vent. a. Design and justify, and map possible 'Exclusion Zones'. Write a Volcanic Impacts Report providing the Mayor of Auckland scientific and socio-political information for or against the evacuation of Auckland (or specific areas). Ask them to critique your decision-making and the wording of the report. The **Welfare Manager** should lead this investigation in consultation with the **VSAG team, Planning and Intelligence Manager and the Infrastructure Coordinator**. **The Controller** should sign off on all decisions and reports. You have 10-15 minutes to practice, and write the report |
| 8-Mar | 20:00 | **GeoNet5: FORECAST:** The **GeoNet team has been requested by the Prime Minister** to work together to narrow down a location for a possible eruption vent using the available datasets. The Section Manager must make the final decision. This forecast should be written in a report and sent to the EM Team, and to the Prime Minister. Be sure to include probabilities and uncertainties that are part of your decision-making. You have 10 minutes to do this. |
| 10-Mar | 8:00 | **EM8: The Crisis Information Manager** should quickly verbally update the group on the status of public media (social media, and reported media). Brief the EM team, and make suggestions on what information is of value, and what is not - establishing a team strategy on the media. |
| 14-Mar | 16:00 | **EM9:** You are going to have a 15 minute Joint Meeting between the GeoNet Team and the EM Team. This is to discuss the volcanic activity, and draft a Media Release to be given out on general advisement to the Public. Get a working map from the GeoNet team on where tephra has fallen. Topics to cover include: a. Impacts of volcanism on health, electricity, roads, buildings, agriculture. b. What is the status of evacuation(s)? c. Which issue do you tackle first? What is priority? **VSAG - Human Impacts Manager** can take the lead on writing a brief Volcanic Ash Report to address these issues. You have **10 minutes** to write it, and provide this information at the meeting. |
| 14-Mar | 16:00 | **GeoNet6:** You are going to have a 15 minute Joint Meeting between the GeoNet Team and the EM Team. This is to discuss the status of the volcano, volcanic activity, and draft a Scientific Media Release to be given out on general advisement to the Public. Topics to cover include: a. Eruption type, b. What can we expect to happen?, c. Will the activity continue, Will it subside?, d. What does your monitoring data tell you, what does it prove? What is the uncertainty? Be sure to include rough probabilities. You have **10 minutes** to prepare, and a 15-min meeting to share. |
| 15-Mar | 8:00 | **EM10.** The **Infrastructure Co-ordinator** is advised to prepare a short Volcanic Impacts Report, on how the road network and road conditions may be affected by the most recent eruption. (You have **5 minutes** to write this). Then the **VAAC** and **VSAG - Human Impacts Manager** is advised to respond to concerns from Airways New Zealand on the status of the aviation codes in New Zealand. You have **5 minutes** to justify the aviation code in a Volcanic Impacts Report. |
| 15-Mar | 8:00 | **EM11:** Ministry of Economic Development requests information from the **VSAG -Economic Impacts** on significant concerns of long term impact to the city's economy if the volcano continues to erupt. Be sure to include general estimates of financial impact based on probable longevities. Write a Volcanic Impacts Report, you have 5 minutes to do this. |

| | | |
|---|---|---|
| 15-Mar | 8:00 | **EM12: The GeoNet Field Team** should be asked to help collect water samples from the water supply network to assess the city's water quality. The VSAG-Human Impacts and the Infrastructure Coordinator should communicate with the GeoNet field team regarding the affected locations that require sampling, how many samples you need, and how long it will take. You have **5 minutes**. |
| 15-Mar | 8:00 | **GeoNet7.** As a team, discuss expectations (scale, type of volcanism), and what your group thinks could happen. What are the data telling you? Write down observations in your Data Log. **(10 minute informal scientific discussion)** |
| 15-Mar | 8:00 | **GeoNet8: The Field Team** is asked to collect ash and tephra samples and make measurements of the total tephra thickness to produce isopach maps. Liase with the Ash Specialist, and the MetService Unit to help sort out where samples should be collected from. Remeber to consider how long it will take, access to the sites, and mark on the map the sample localities. Be sure to fill out the necessary paperwork and see **the Volcano** for the results. |
| 21-Mar | 8:00 | **GeoNet 9:** For every subsequent eruption (if one occurs), the **volcanologists,** with help from the **field team** are asked to compile: 1) a cumulative isopach map; 2) projected lava flows and base surges from eruptions. Use the topography and eruption parameters to help you. You can also use observations and samples obtained by the field team . |
| 3-Apr | 0:00 | **EM13.** A change in eruption has occurred. The **Duty Manager** should lias with the Geonet team to get the necessary geological information. The **EM team** should write a list with: a. The areas most likely to be impacted, b. Basic advice to citizens in these areas, c. The worst-case scenario for each sector (water, roads.. etc). Elect one representative from your team to give this list during the press conference. Both teams (EM and GeoNet) will present the most important information (5 minutes each) with 5 minutes of questions from the Public. |
| 3-Apr | 0:00 | **GeoNet10.** What kind of eruption is this? Where did it occur? Prepare (10 minutes) for a **15 minute press conference** to explain to the public what has happened at the volcano. As a group, elect your representative from your team to give this presentation. Both teams (EM and GeoNet) will present the most important information (5 minutes each) with 5 minutes of questions from the Public. |
| 3-Apr | 4:00 | **EM14:** Auckland City Council wishes to know of any mitigation strategies they could use to slow/stop further destruction from lava flows. The **whole team** should list strategies and cases of where they have been used and whether they would work at this volcano. You have **5 minutes** |
| 3-Apr | 4:00 | **EM15: VSAG Human and environmental Impacts** is asked to write a brief volcanic impacts report on the effects of exposure to high levels of CO2 and SO2 both health wise and effects to the environment. You have **5 minutes** |
| 3-Apr | 4:00 | **EM16 :** The **Planning and Intelligence Manager,** the **Infrastructure Coordinator** and the **Welfare Manager** are asked to create a volcanic hazards map of the Auckland volcano, utilising scientific information from the GeoNet team. Be sure to include all types of eruptions and their impacts that have occurred.You have **10 minutes** |

| | | |
|---|---|---|
| 13-Apr | 4:00 | **EM17:** Both teams are advised to STOP and watch the remaining Media and Community Response info for the remainder of the simulation (should take a couple of minutes) |
| 13-Apr | 4:00 | **GeoNet11:** Both teams are advised to STOP and watch the remaining Media and Community Response info for the remainder of the simulation (should take a couple of minutes) |
| 14-Apr | 20:00 | **GeoNet12:** A 15 minute press conference will be used to summarize the most recent events. Section Manager should report on: a. Scale of eruption, b. Whether the team believes further eruptions will occur, c. Ash and flow dispersal, and liase with EM team on list of affected regions, d. equipment conditions, and plan to repair. Remember to speak in plain speak - this is for the public, not volcanologists. You may invite team members to speak about their specialities. You have **15 minutes** to prepare |
| 14-Apr | 20:00 | **EM18:** A 15 minute press conference will be used to summarize the most recent events. Group should report on: a. List of effected regions (and populations), b. reccomendations for home-owners, c. status of the exclusion zone, and d. recommendations on how long evacuations will take place. e. Communications are down in some areas, what do you reccommend? Remember to speak in plain speak - this is for the public, not scientists. You may invited the members of your team to speak about their specialties. **You have 15 minutes to prepare** |