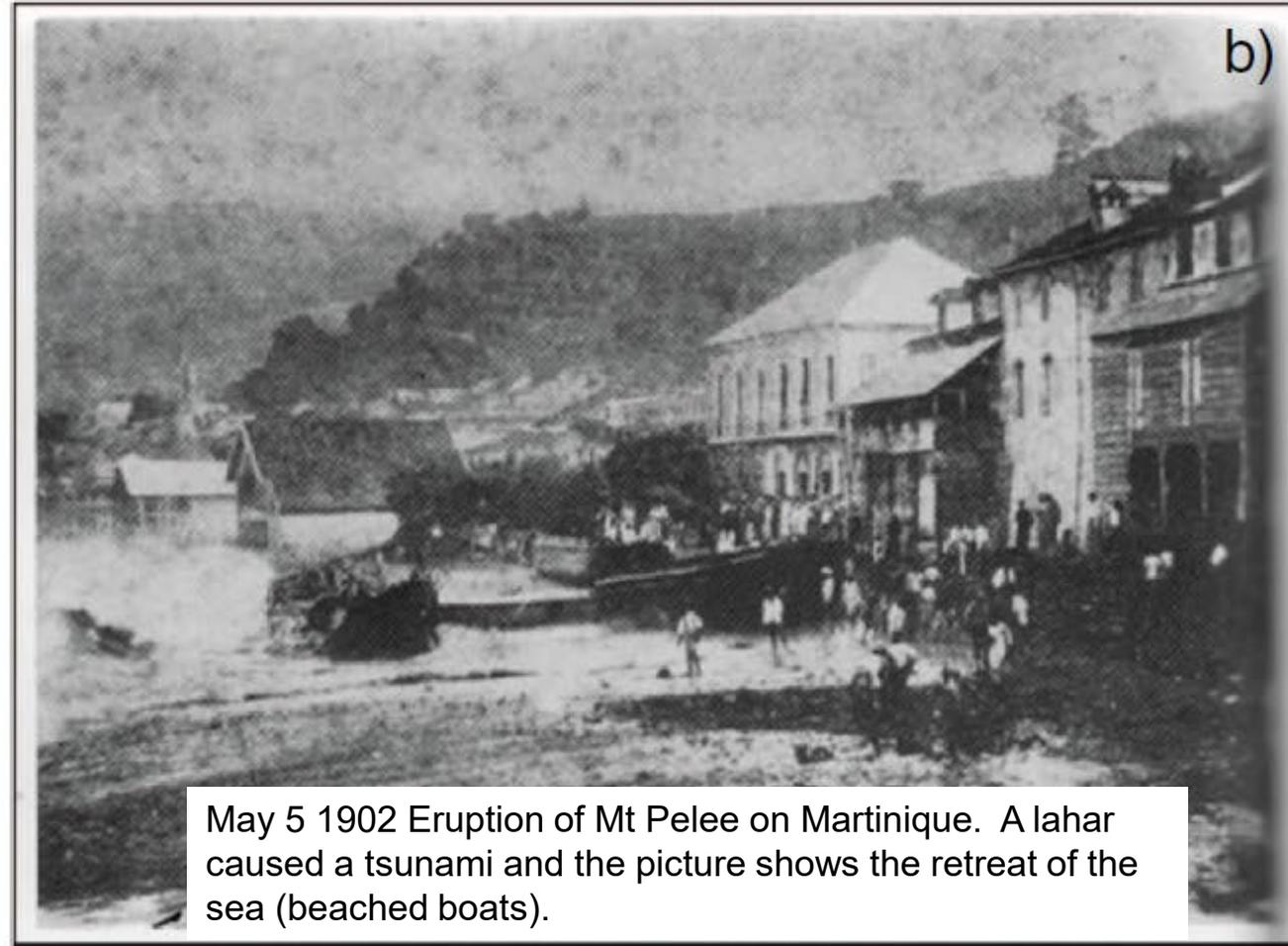
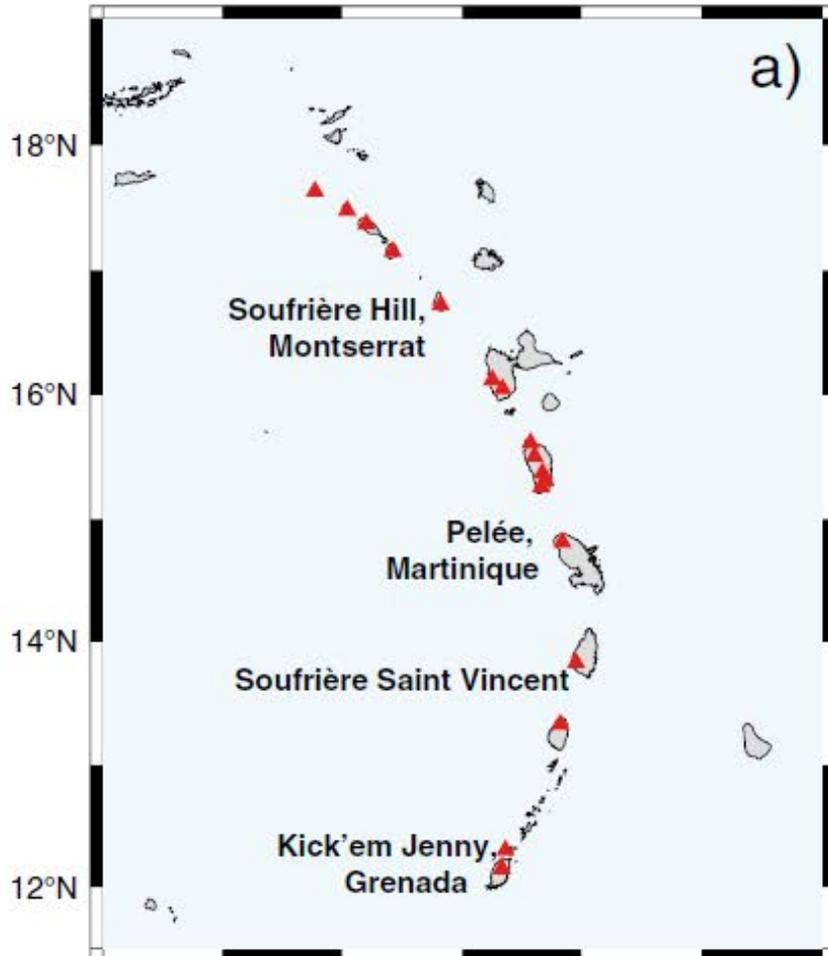


Active Caribbean Region Volcanoes



Volcanoes of the Lesser Antilles including the 4 responsible for historical tsunamis.

Procedures for TGV – Alarmed Sea-level Gauges

- Volcano or Ash Observatories notify PTWC about potential or actual eruptions.
- Sea-level gauge triggers alarm.
- At least two independent indicators of a tsunami are required before initiating notification to Member States.
- Messages are constructed ad-hoc depending on how much is known about the source and size of the tsunami.

PTWC Tool to Alarm Sea-Level Gauges Near Volcanoes

Tsunami Detector Version V0.008

Functions Enable All Disable All Help Quit

Check (uncheck) the radio buttons to enable (disable) tsunami detectors

hilo.pwl	<input checked="" type="checkbox"/> Enable (threshold: [0.30 m, 1, perm])	Mauna Loa
kahu.pwl	<input checked="" type="checkbox"/> Enable (threshold: [0.30 m, 1, perm])	
calq.pr1	<input checked="" type="checkbox"/> Enable (threshold: [0.20 m, 1, of2], 30 km S of La Soufriere)	La Soufriere
stlu.rd	<input checked="" type="checkbox"/> Enable (threshold: [0.30 m, 1, perm], 71 km N of La Soufriere)	
ftfr.rad	<input checked="" type="checkbox"/> Enable (threshold: [0.30 m, 2, perm], 134 km N of La Soufriere)	
lero.prs	<input checked="" type="checkbox"/> Enable (threshold: [0.30 m, 1, perm], 145 km N of La Soufriere)	
pric.rad	<input checked="" type="checkbox"/> Enable (threshold: [0.30 m, 1, perm], 167 km S of La Soufriere)	
lapa.rad	<input checked="" type="checkbox"/> Enable (threshold: [0.30 m, 1, perm], 13 km NE of La Palma summit)	Cumbre Vieja
hie2.rad	<input checked="" type="checkbox"/> Enable (threshold: [0.30 m, 1, perm], 88 km S. of La Palma summit)	
lago.rad	<input checked="" type="checkbox"/> Enable (threshold: [0.30 m, 1, perm], 88 km S. of La Palma summit)	
tene.rad	<input checked="" type="checkbox"/> Enable (threshold: [0.30 m, 1, perm], 156 km E. of La Palma summit)	
lasp.rad	<input checked="" type="checkbox"/> Enable (threshold: [0.30 m, 1, perm], 241 km E. of La Palma summit)	
nkfa.prs	<input checked="" type="checkbox"/> Enable (threshold: [0.20 m, 1, perm], 56 km SE of Hunga Ha'apai Volcano)	Hunga Tonga
upol.prs	<input checked="" type="checkbox"/> Enable (threshold: [0.20 m, 1, perm], 840 km NE of Hunga Ha'apai Volcano)	
pago.pwc	<input checked="" type="checkbox"/> Enable (threshold: [0.20 m, 1, perm], 857 km NE of Hunga Ha'apai Volcano)	
rfrt.prs	<input checked="" type="checkbox"/> Enable (threshold: [0.30 m, 1, of2], 1000 km S. of Hunga Ha'apai Volcano)	
rbct.prs	<input checked="" type="checkbox"/> Enable (threshold: [0.30 m, 1, of2], 1003 km S. of Hunga Ha'apai Volcano)	
pdas.rad	<input checked="" type="checkbox"/> Enable (threshold: [0.30 m, 2, perm], 300 km SW of Sao Jorge, Sao Miguel Island, Azores)	Sao Jorge
honb.prs	<input checked="" type="checkbox"/> Enable (threshold: [0.30 m, 1, perm], Honiara Solomon Islands near Kavachi Volcano)	Kavachi

Basic Generic TGV Procedure based on VONUT

1. The Volcano Observatory notifies the TSP of activity indicative of a pending eruption.
2. The TSP sends an Information Statement advising the potential for a TGV.
3. The Volcano Observatory notifies the TSP of eruptive activity capable of causing a tsunami (or not).
4. The TSP monitors the nearest sea-level gauges for any tsunami signals.
5. If a tsunami is observed, the TSP sends a Threat Message with:
 - a. Noting it has received notification from the Volcano Observatory of an eruption.
 - b. Noting that tsunami waves have been observed
 - c. Naming nearby countries with potential tsunami threat
 - d. Providing tsunami ETAs for those countries (estimating the event time).
 - e. Providing tsunami amplitudes from gauges where the tsunami has been observed.
6. The TSP monitors the tsunami and issues more Threat Messages to:
 - a. Continue the tsunami threat
 - b. Expand the tsunami threat
 - c. End the tsunami threat

Caribe Wave 26 TGV Scenario – Kick-em-Jenny Volcano

1. Notifications from the Seismic Research Center of the University of the West Indies in Trinidad
2. Rapid confirmation of a tsunami depends on the location of sea-level gauges
3. TGV amplitudes cannot be forecast
4. The procedure is still in a test phase and not officially implemented in the CARIBE-EWS

