Why is the Yellowstone Volcano Observatory described as a "virtual observatory"?

1

How does YVO differ from most other U.S. volcano observatories in its structure?

2

Name the three main goals of the Yellowstone Volcano Observatory.

3

Why can the seismic network detect such small earthquakes in Yellowstone?

4

How do continuous GPS stations detect ground deformation?

5

YVO is a consortium of nine organizations, whereas most other observatories are run mainly by the USGS.

2

It has no physical facility or building. It exists as a collaborative network across institutions rather than in one place.

1

About 46 stations, many with buried seismometers, reduce noise, so earthquakes as small as magnitude 1.5 can be detected.

4

Research into volcanic, tectonic, earthquake and hydrothermal processes; monitoring; and education and outreach.

3

Each antenna sits on a permanent monument, so when the ground moves the antenna moves with it.

5