

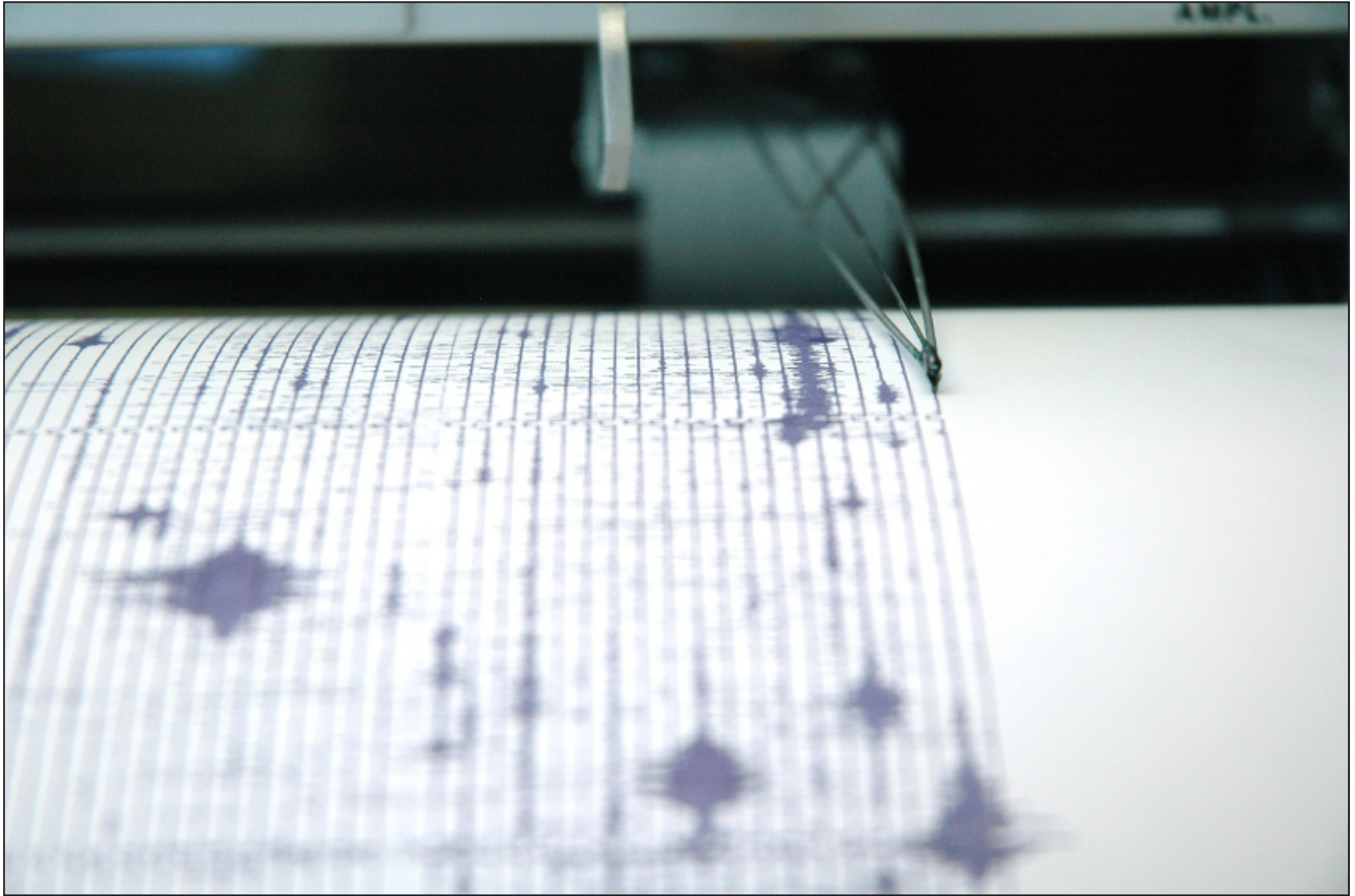
The background of the slide features three vertical seismic waveforms. The leftmost waveform is a high-frequency, high-amplitude signal. The middle waveform is a lower-frequency, lower-amplitude signal. The rightmost waveform is a very low-frequency, low-amplitude signal, with a small 'P' label positioned to its left, indicating a P-wave. The text is overlaid on the left side of these waveforms.

Earthquakes

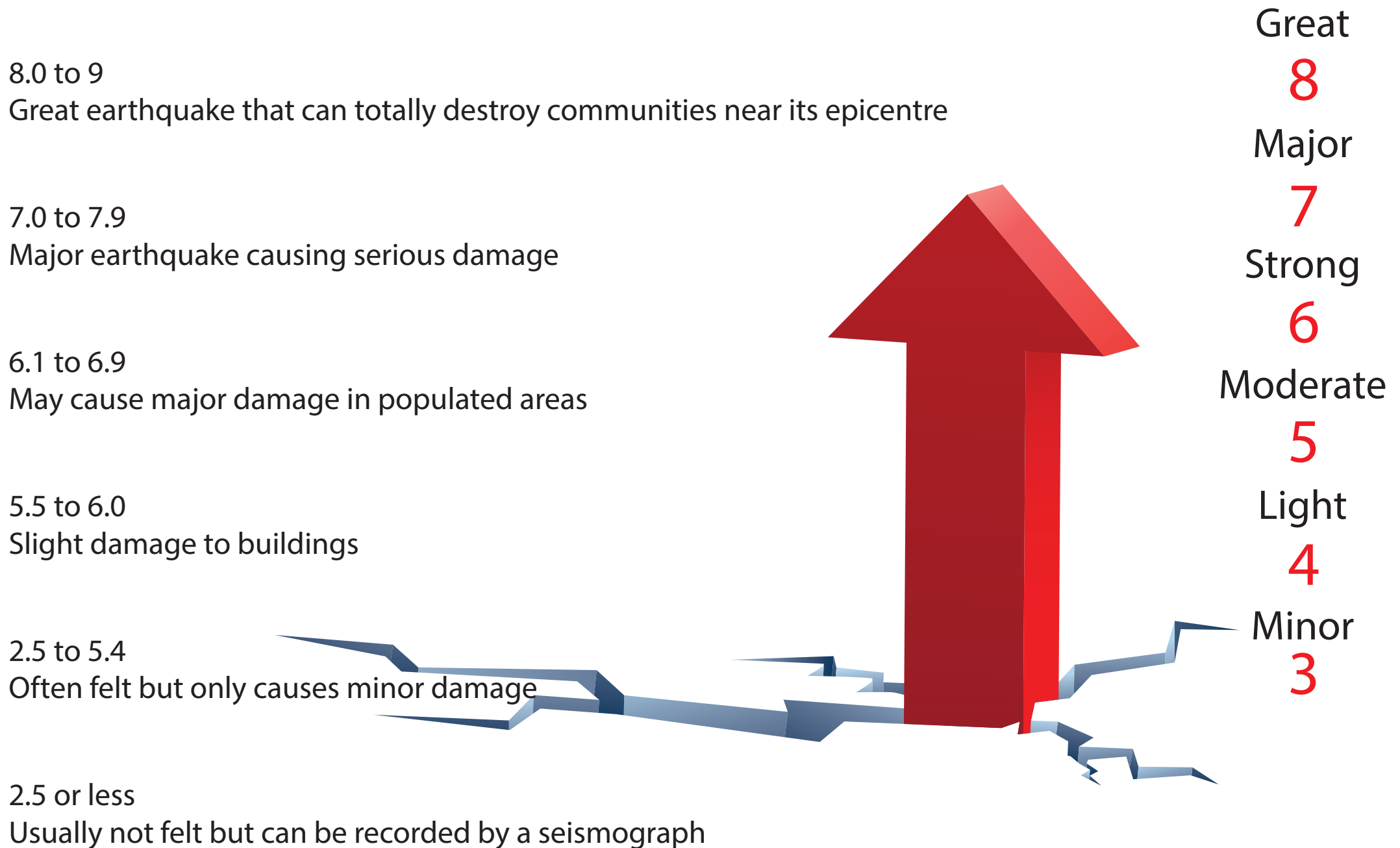
Discussion Points:

- 1) How are earthquakes measured?
- 2) What is the Richter Scale?
- 3) What is the Moment Magnitude Scale?
- 3) What warning systems are in operation?

Vibrations in the earth's surface are detected by seismographs. The earthquake's strength is measured using the Moment Magnitude Scale.

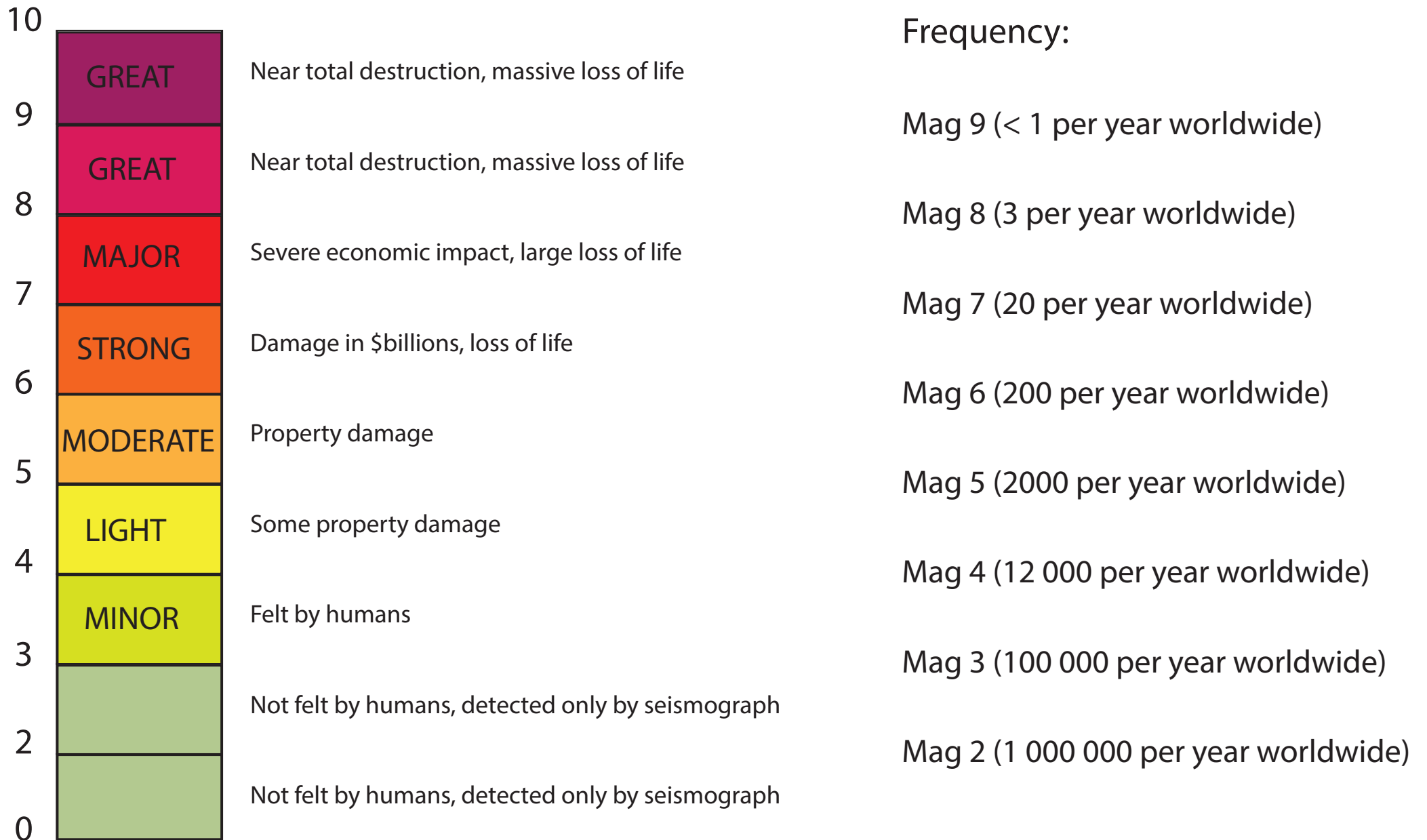


Richter Scale of Earthquake Magnitude



Moment Magnitude Scale

The Moment Magnitude Scale was introduced in 1979 to more accurately describe earthquakes at the upper end of the scale.



Seismic activity can be monitored but there is no accurate way to predict when an earthquake will occur or what magnitude it will be. Underwater detectors pick up vibrations when an earthquake occurs and this information is sent to communication centres who issue tsunami warnings to the public.

