

## Questions: Tohoku Earthquake and Reactor Meltdown

1. What was the moment magnitude of the Tohoku earthquake?
2. What was the approximate death toll?
3. What was the cause of the great majority of deaths?
4. What was the type of earthquake (focal mechanism)?
5. What was the approximate rupture length?
6. Why was the earthquake unexpected?
7. What was the significance of the “Tsunami Stones” in the region?
8. About how much did the coast subside following the earthquake?
9. About how many nuclear reactors are/were there in Japan?
10. What was the earthquake magnitude for the design basis of the Fukushima reactor?
11. Why did the tsunami inundate the reactor site?
12. What was the critical design flaw in the reactor design?
13. What is the status of most of the reactors in Japan today?