



EARTHQUAKE



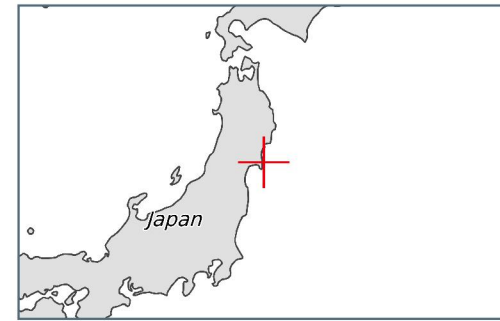
7.0

Magnitude

Automatically generated **SHAKE MAP** powered by:  
**ADAM** - Automated Disaster Analysis and Mapping

20 March 2021

11:25:31 GMT



EVENT INFO

**Place:** 27 km ENE of Ishinomaki

**Time:** 20 March, 09:09 GMT

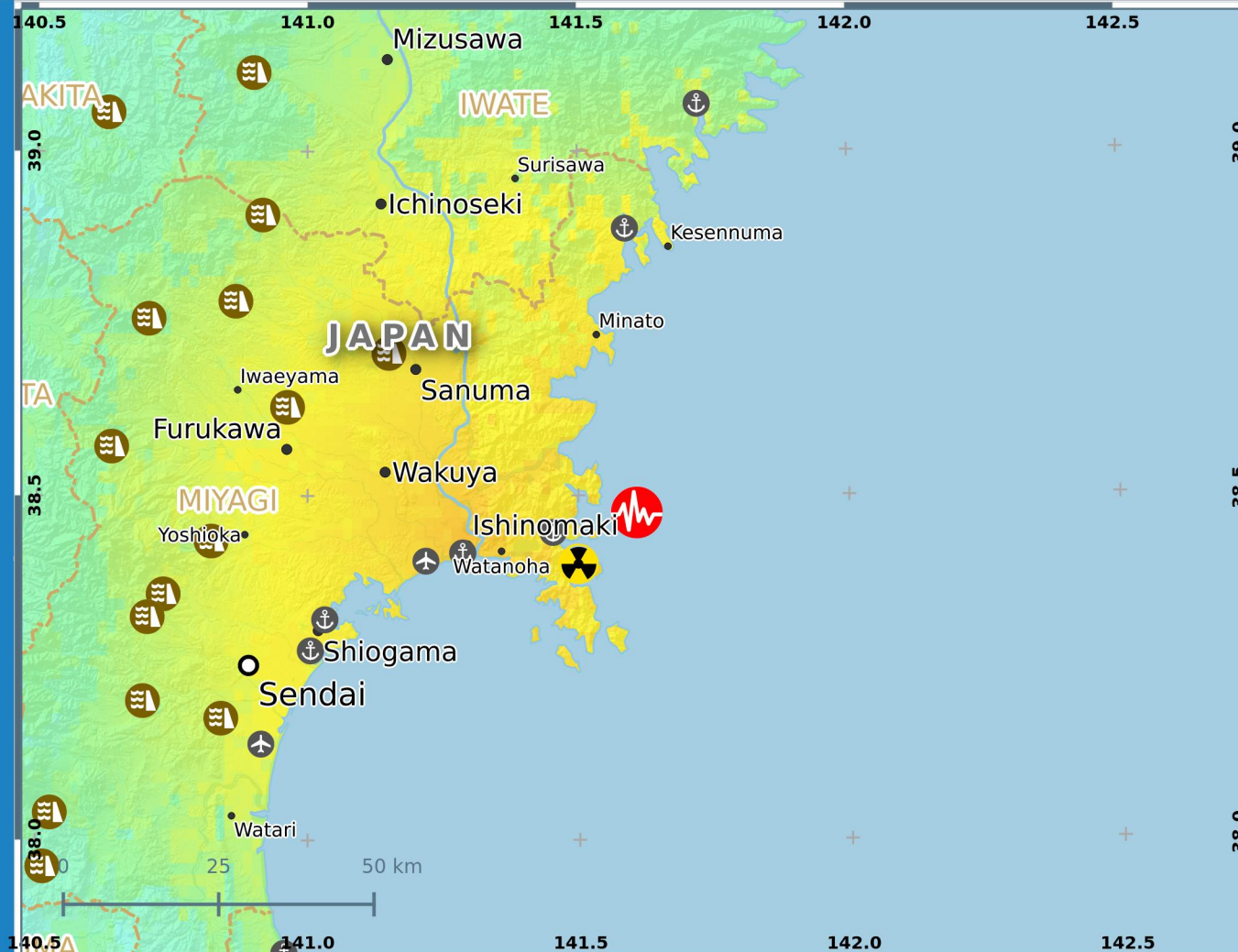
**Depth:** 54.0 km

**Coord.:** Lat: 38.48 Lon: 141.61

**Populat.:** 128,732 within 30 Km

USGS ShakeMap									
Instrumental Intensity	I	II-III	IV	V	VI	VII	VIII	IX	X+
Potential Shaking	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
Potential Damage	None	None	None	Very Light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy

Miyagi, Japan



**MODIFIED MERCALLI INTENSITY SCALE:**

**7.2/10**

Intensity class VII:  
 People have difficulty standing. Drivers on the road feel their cars shaking. Furniture may be overturned and broken. Loose bricks fall from buildings and masonry walls and cracks in plaster and masonry may appear. Weak chimneys may break at the roofline. Damage is slight to moderate in well-built structures; considerable in poorly constructed buildings and facilities.

**Concepts and definitions**

Shake Map combines instrumental measurements of shaking with information about local geology and earthquake location and magnitude to estimate potential impacts throughout a geographic area.

The estimated intensity map is derived from ground motions recorded by seismographs and represents Modified Mercalli Intensities (MMI's) that are likely to have been associated with the ground motions.

Magnitude and Intensity measure different characteristics of earthquakes. Magnitude measures the energy released at the source of the earthquake. Magnitude is determined from measurements on seismographs. Intensity measures the strength of shaking produced by the earthquake at a certain location. Intensity is determined from effects on people, human structures, and the natural environment. (Source: USGS)

Please report errors to [hq.gis@wfp.org](mailto:hq.gis@wfp.org). Event ID: us7000dl6y. Map projection: WGS 84 / UTM zone 54N (EPSG 32654). Sources: USGS (ShakeMap layer, earthquake info), GAUL, WFP, NASA, ESRI. The designations employed and the presentation of material in this map do not imply the expression of any opinion whatsoever of WFP concerning the legal or constitutional status of any country, territory or sea area, or concerning the delimitation of frontiers.



- WFP Country Office
- WFP Sub Office
- WFP Warehouse
- Airport
- Port
- Nuclear power plant
- Earthquake epicenter
- Dam
- Water body
- International boundary
- First level administrative boundary
- Main road