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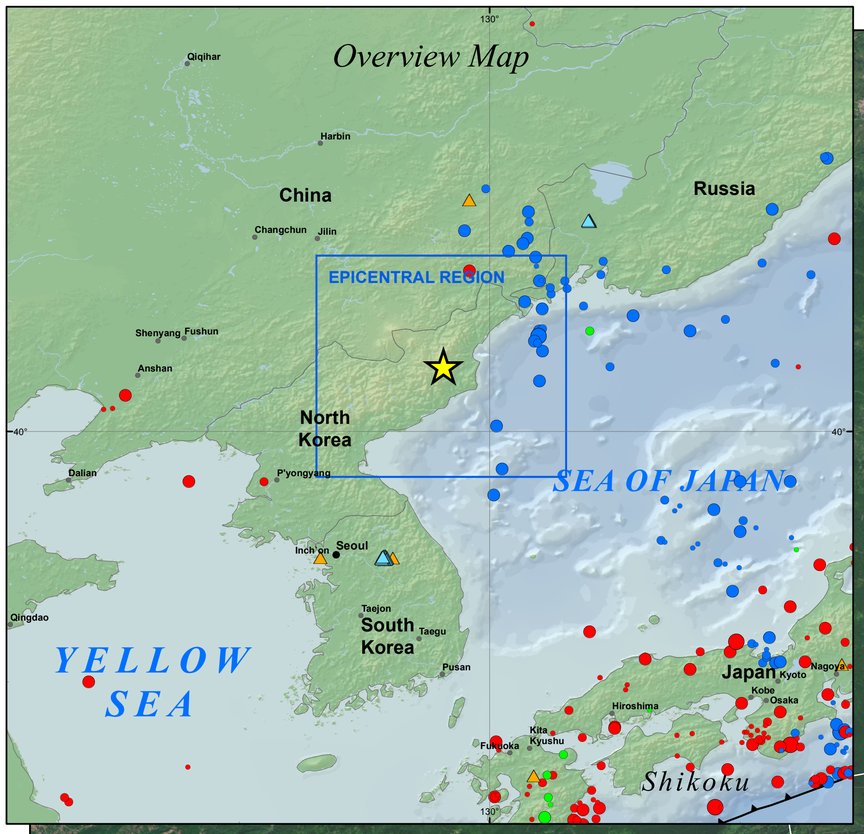
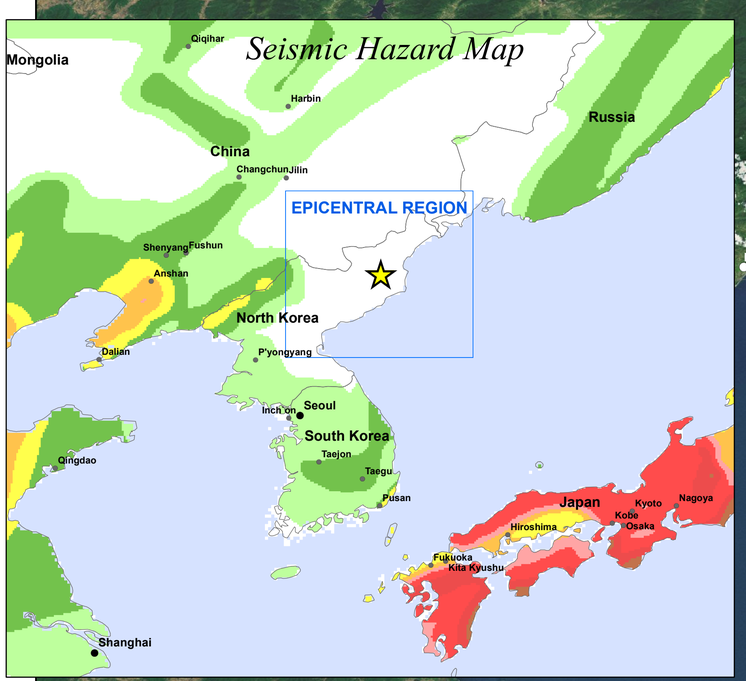
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

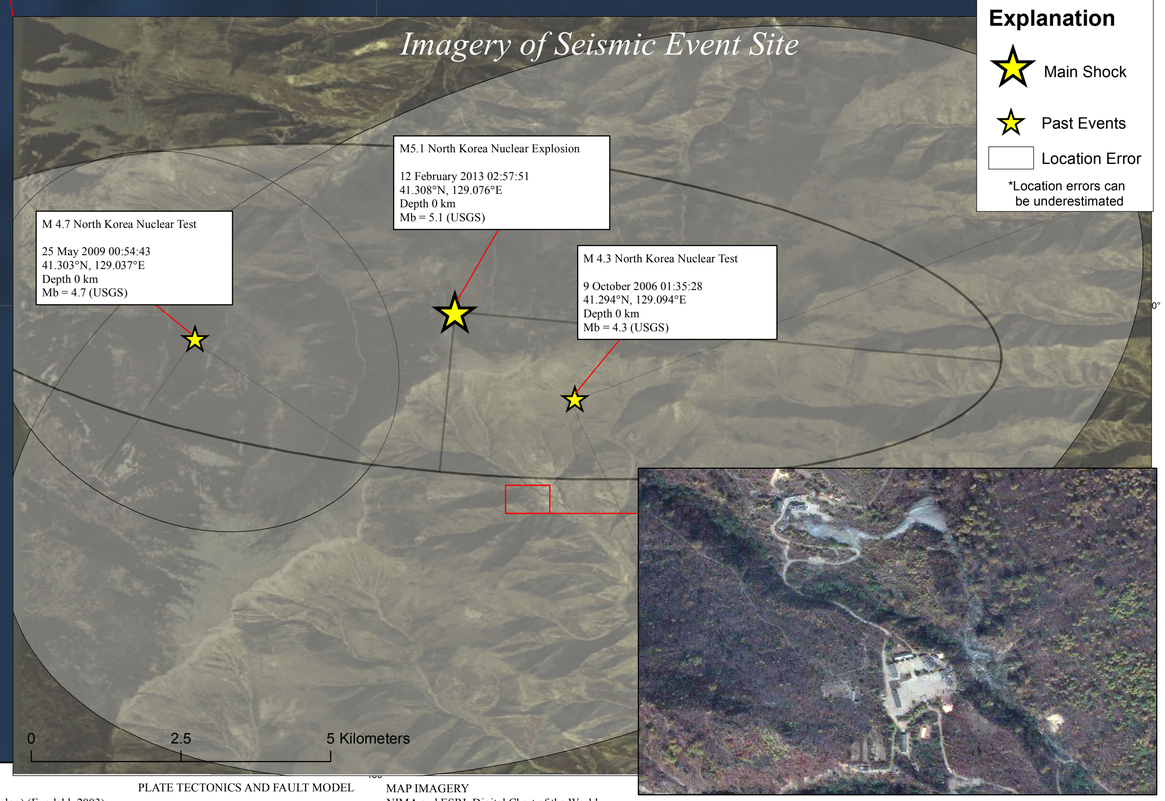
EARTHQUAKE SUMMARY MAP XXX

Prepared in cooperation with the Global Seismographic Network
GSN

M5.1 North Korea Nuclear Explosion of 12 February 2013







Explanation

- Main Shock
- Past Events
- Location Error

*Location errors can be underestimated

EXPLANATION

- Main Shock

Depth

- 0 - 69 km
- 69 - 299 km
- > 299 km

Magnitude

- < 5.5
- 5.5 - 6.5
- 6.5 - 7.5
- 7.5 - 8.5
- > 8.5

Stations

- Broadband
- Short Period

0 75 150 Kilometers

Scale 1:750,000

REFERENCES

Bird, P., 2003, An updated digital model of plate boundaries: Geochem. Geophys. Geosyst., v. 4, no. 3, pp. 1027- 80.

Engdahl, E.R. and Villaseñor, A., 2002, Global Seismicity: 1900 - 1999, chap. 41 of Lee, W.H.K., and others,eds., International Earthquake and Engineering Seismology, Part A: New York, N.Y., Elsevier Academeic Press, 932 p.

Engdahl, E.R., Van der Hilst, R.D., and Buland, R.P., 1998, Global teleseismic earthquake relocation with improved travel times and procedures for depth determination: Bull. Seism. Soc. Amer., v. 88, p. 722-743.

DATA SOURCES

EARTHQUAKES AND SEISMIC HAZARD
USGS, National Earthquake Information Center
NOAA, National Geophysical Data Center

HDF (unpublished earthquake catalog) (Engdahl, 2003);
Global Seismic Hazard Assessment Program

PLATE TECTONICS AND FAULT MODEL
PB2002 (Bird, 2003)

MAP IMAGERY
NIMA and ESRI, Digital Chart of the World
USGS, EROS Data Center
NOAA GEBCO and GLOBE Elevation Models
Seismic Event Site Imagery - Google, GeoEye

Map updated by U.S. Geological Survey
National Earthquake Information Center
13 February 2013
Map not approved for release by Director USGS