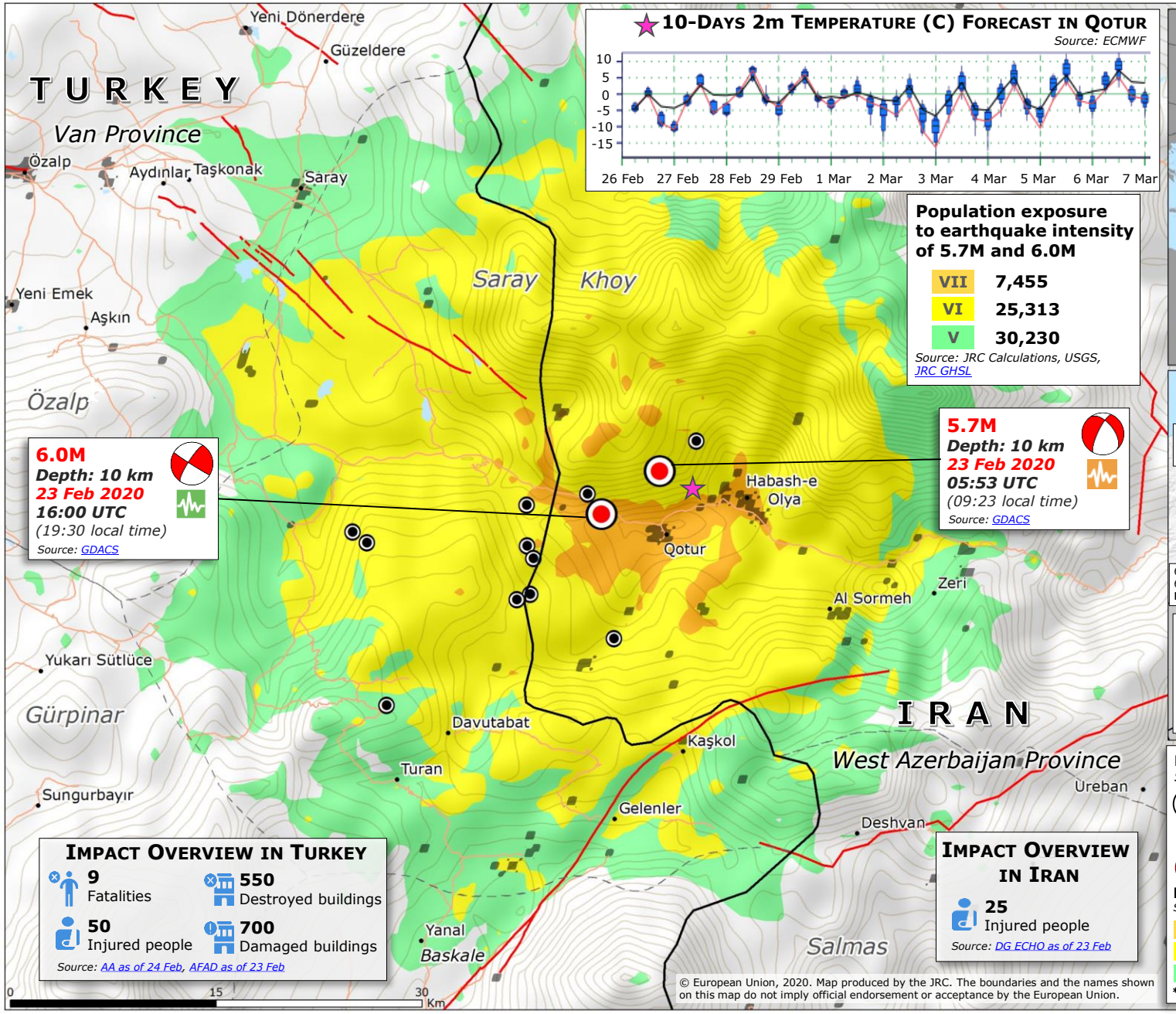
Iran-Turkey border region | Earthquakes of 23 February

European Commission



10-Days 2m Temperature (C) Forecast in Qotur

Source: ECMWF

Population exposure to earthquake intensity of 5.7M and 6.0M

VII	7,455
VI	25,313
V	30,230

Source: JRC Calculations, USGS, JRC GHSL

6.0M
Depth: 10 km
23 Feb 2020
16:00 UTC
(19:30 local time)
Source: GDACS

5.7M
Depth: 10 km
23 Feb 2020
05:53 UTC
(09:23 local time)
Source: GDACS

Impact Overview in Turkey

9 Fatalities
550 Destroyed buildings
50 Injured people
700 Damaged buildings

Source: AA as of 24 Feb, AFAD as of 23 Feb

Impact Overview in Iran

25 Injured people

Source: DG ECHO as of 23 Feb

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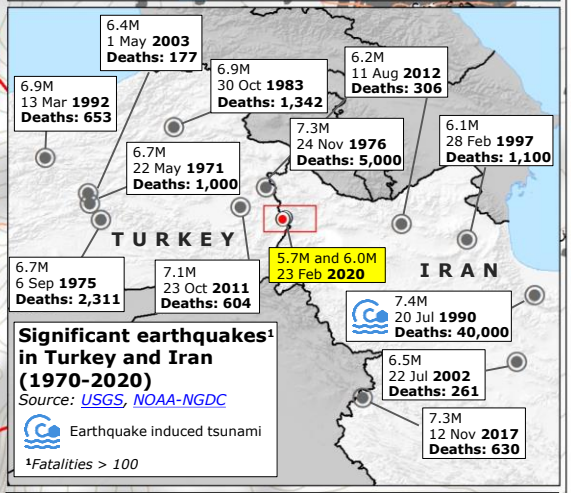

Significant earthquakes[1] in Turkey and Iran (1970-2020)

Source: USGS, NOAA-NGDC

Earthquake induced tsunami

[1]Fatalities > 100

Earthquake
Source: GDACS, USGS

- Seismic events
- Aftershocks ≥4.0M 24 Jan-25 Jan
- Focal mechanism
  Source: USGS

Modified Mercalli Scale*
Source: USGS

- VII Very strong shaking
- VI Strong shaking
- V Moderate shaking

*Combined 5.7M and 6.0M earthquakes

- GDACS Orange Alert
- GDACS Green Alert
- Fault
  Source: KOERI, MTA, Emre et alii, 2013, U.S. Geological Survey
- Built-up
  Source: JRC GHSL
- Road
- Administrative division[2]
- State border

[2]District in Turkey, County in Iran