

Action plans

Alert level

No alert

$M_l \leq 1.0$

Seismic analysis

Revise the seismic catalogue on a daily basis

Field operations

Continued as planned, if no anomalous seismicity patterns

Communication

If anomalous seismicity patterns are found, report sent to the monitoring and field operation task leaders

Green

$1.0 < M_l \leq 1.5$

No immediate action, within 4 h check for anomalous spatio-temporal evolution of the seismicity

Continued as planned, if no anomalous seismicity patterns

If anomalous seismicity patterns are found, report sent to the monitoring and field operation task leaders

Yellow

$1.5 < M_l \leq 2.0$

Immediate response, a manual location, and magnitude estimation must be available within 45 min

Flow and pressure decrease until seismicity levels remain below the green alert for at least 4 h

Status report sent to the Icelandic Meteorological Office (IMO)

Orange

$2.0 < M_l \leq 3.0$

Immediate response, a manual location, and magnitude estimation must be available within 45 min

Stop injection operations until seismicity levels remain below the green alert for at least 12 h

Status report sent to regulators, the ICPD, IMO, and RE's public affairs

Red

$M_l > 3.0$

Immediate response, a manual location, and magnitude estimation must be available within 45 min

Immediately stop injections operations and bleed off

Status report sent to regulators, the ICPD, IMO, and RE's public affairs, assess potential damage