

Assessment of Community Internet Intensity (CII) in Sakhalin Island

Method: The Community Internet Intensity (CII) was routinely applied through the USGS DYFI questionnaires translated into Russian [Dengler and Deweey, 1998; Wald et al., 1999]. We have selected only those responses that contain 2 or more felt reports in one community. This data was compared with PGA through regional ground motion prediction equation [Konovalov et al., 2018]. The PGA value was reduced to Russian SSI-2017 seismic intensity scale:

$$\text{SSI-2017} = 2.5 \log(\text{PGA}) + 1.89.$$

Results: We have found correlation between CII and PGA (cm/s/s) which is given by the equation

$$\text{CII} = 2.5 \log(\text{PGA}) + 2.32.$$

It is suggested that given approach can be used as a robust tool for the rapid analysis of regional ground shaking parameters.

