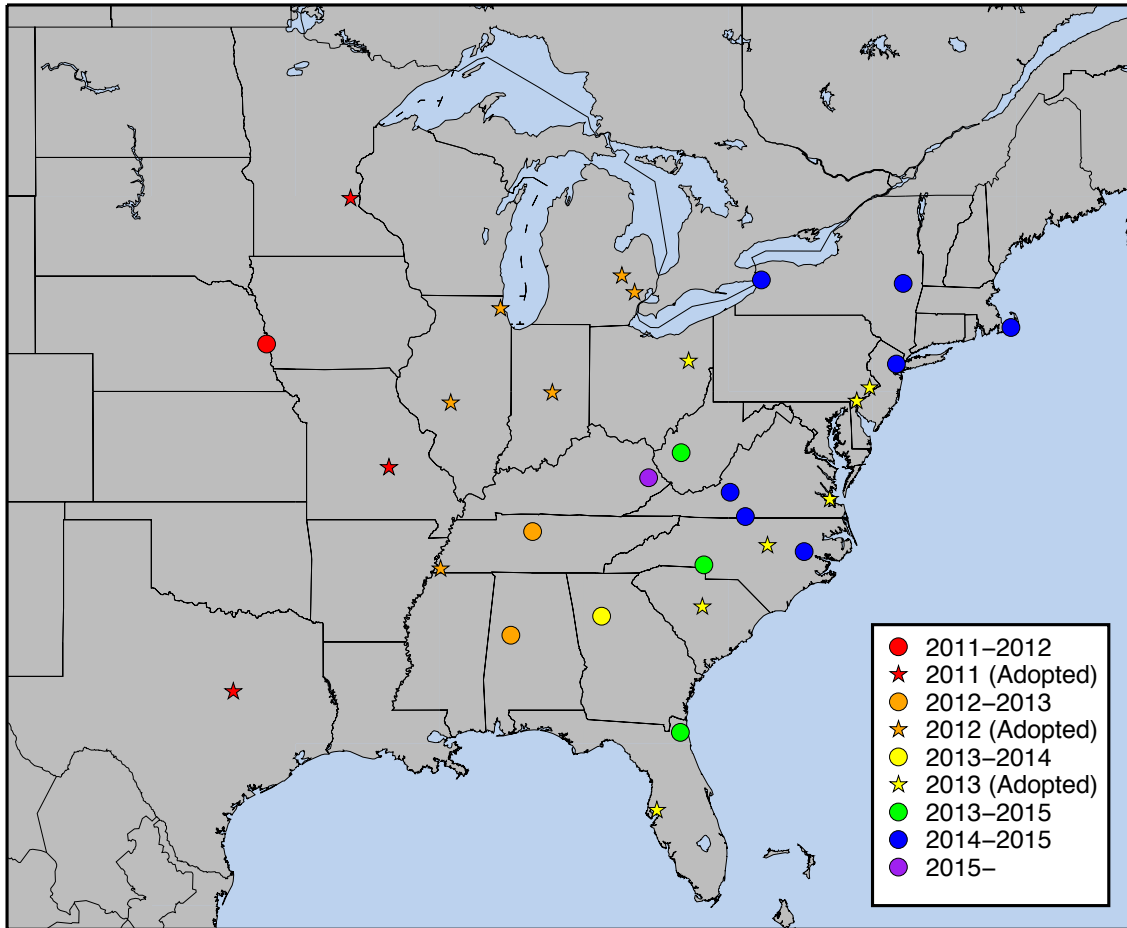


EarthScope Science and Discoveries displayed through
the IRIS Active Earth Monitor
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The IRIS Active Earth Monitor (AEM) is an interactive computer based educational display designed for museums, planetariums, libraries, K-12 schools, and university lobbies. The AEM provides a way to engage audiences with earth science information without spending resources on a large exhibit, and has helped to increase awareness of USArray and EarthScope within the USArray footprint. Over 80 pages of content are available that explain earthquakes, tsunamis, plate tectonics, volcanoes, and recent seismology research. Seismic and geodetic data collected during EarthScope are available on several pages, which are tailored to the region the kiosk is located in. This allows the public to view actual data in near real-time and place it in the context of where they live.

Interactive web based content allows users to explore the EarthScope facilities, view near real-time data feeds from EarthScope instruments, and understand EarthScope related research results. AEMs can display one of the ready-to-run regional geology sets, individual pages that the host can put together on specific topics, or the host can create and display their own custom content. Regional content sets that have been created at the Transportable Array moved across the US include: Cascadia, Basin and Range, New Madrid, and Alaska. In addition, Active Earth content includes flash animations and short movies that allow users to see how EarthScope instruments are installed, how they work, and how data are collected. Since 2011, IRIS has loaned AEM kiosks to 32 museums and other educational institutions for one year, with the opportunity for the recipient to purchase the kiosk for use as a permanent display, with another 9 kiosks provided under longer-term arrangements. In 2014 alone there were over 1.5 million visitors to institutions hosting a loan kiosk, plus an additional 900,000 visitors to an EarthScope themed visitor center. Many venues also use their own hardware for the displays, and in total, over 200 users have applied for their own display accounts.



Map shows the distribution of Active Earth Monitor loan kiosks across the central and eastern United States since 2011. The symbols represent whether the AEM was displayed during a temporary exhibit (circles) or was adopted for permanent installation (stars). The color represents the year installed, as shown in the legend. Three additional displays are currently on loan in Alaska.