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# Applications of high-resolution topography in Earth science education

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## ABSTRACT

High-resolution topography (HRT) provides Earth scientists the opportunity to measure landscapes at unprecedented meter to submeter resolutions. HRT also enables use of new quantitative tools that explore landscape structure and evolution. The wide applications for HRT products in research have motivated Earth science educators to evaluate their usefulness for teaching concepts such as plate tectonics, faulting, and landscape change. This study assesses the usefulness of HRT as an educational tool for teaching Earth science concepts. The application of HRT to Earth science education is motivated by concepts outlined in undergraduate geology textbooks and the U.S. Next Generation Science Standards and Earth Science Literacy Initiative. We developed three activities using HRT to assess its educational value. An exploratory study involving undergraduate students assesses their ability to evaluate and interpret the landscape in HRT shaded-relief image versus aerial photography. The hillshades allow novice learners to focus more directly on the landscape, enabling faster and more accurate interpretations of geologic features. In addition, an educational video on HRT and an exercise exploring the earthquake cycle with HRT were tested in undergraduate introductory geology classes. Students who used educational tools involving HRT increased their understanding of the earthquake cycle and HRT for studying earthquakes. Novice Earth science students who use HRT improve their ability to evaluate topography for geologic features and come to accurate conclusions about landscape evolution. These positive outcomes are possible because of the fine scale at which topography can be examined without visual distractors within HRT.

## INTRODUCTION

High-resolution topography (HRT), commonly derived from terrestrial or airborne laser has become an indispensable tool for providing insights into geologic phenomena such as faulting, earthquake and landslide hazards, surface morphology, ice sheet dynamics, and coastline evolution (Haugerud et al., 2003; Cunningham et al., 2006; Carter et al., 2007; Chan et al., 2007; Hilley and Arrowsmith, 2008; Arrowsmith and Zalles, 2009; Zalles et al., 2010; Meigs, 2012; Passalacqua et al., 2015). The diverse research and educational appli-

cations of HRT (which samples the ground at least once per square meter) have motivated the collection of data sets with large spatial extents spanning numerous geologic features. One important resource for free access to HRT data is the U.S. National Science Foundation (NSF)-funded OpenTopography Facility ([www.opentopography.org/](http://www.opentopography.org/)). This web portal provides online access to >165,001 (as of November 2016) square kilometers of HRT data gathered by various groups for multiple applications, processing tools to generate derivative products and visualizations of the data, and educational products and tools for educators (Crosby et al., 2011; Krishnan et al., 2011).

The spatial nature of HRT data and its active role in Earth science research complement education concepts such as visualization, Earth as a system, role of technology, place-based learning, inquiry-based teaching, and active learning. There is a recognized need within the science education community for curricula that encourage spatial thinking and use two-dimensional and three-dimensional (3-D) environments (Hegarty, 2014; Kapchie et al., 2015). Despite the obvious applications of this technology to Earth science education, little work has been done to formally assess the effectiveness of HRT as an education tool. This discussion of HRT as a teaching tool for Earth science education is further motivated by science education initiatives and the science education community calling for integration of research-level data (Taber et al., 2012) into the classroom. HRT data have the potential to address many of the established science educational standards, including, in the U.S., the "Big ideas" of the community-driven Earth Science Literacy Initiative (National Science Foundation, 2006) and the Next Generation Science Standards (NGSS) (Table 1).

To examine the effectiveness of HRT as a teaching tool, we conducted a study at Arizona State University (Tempe, Arizona, USA) in 2016 that tested the cognitive ability of undergraduate students to recognize the topographic signature of faulting and earthquakes in HRT. Based on these preliminary results, two targeted Earth science education resources were developed that use HRT to teach Earth systems. The goal of these developed resources was to determine whether undergraduate students would understand HRT, and if the addition of HRT within undergraduate Earth science laboratories would aid in the understanding of the earthquake cycle. The first is an exercise using HRT at the San Andreas fault (California, USA) to teach about landscape evolution and the earthquake cycle, core concepts in understanding plate tectonics. The

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