

# Big Data, Small Devices: Investigating the Natural World Using Real-Time Data

Author(s): Donna Governor, Michael Bowen, Eric Brunsell

**Date Available:** June 2017  
**ISBN:** 9781760561222  
**Code/SKU:** NST1222  
**RRP:** \$55.95  
**Format/Page No.:** A4, 274 pages  
**Year Level:** Teachers and Administrators  
**Focus Area:** Activities and Exercises,  
Classroom Practice and Direct  
Instruction  
**Key Learning Area:** Science



## Summary

Given the number of students with smartphones and tablets, it only makes sense for them to take advantage of the many websites and free apps that can teach them about the natural world. *Big Data, Small Devices* is designed for Earth and environmental science teachers who want to help students tap into, organize, and deploy real-time data sets. Students can learn to use their devices to detect patterns among phenomena related to the atmosphere, biosphere, geosphere, hydrosphere, and celestial sphere.

Written by veteran teachers, *Big Data, Small Devices* will help you understand both the technology you need and the ways to use it in classes at all levels, from elementary school through high school. The authors give tools, tips, and tricks for finding real-time activities that showcase specific data, as well as the websites and apps that provide them. You can use the activities as written, adapt them to your specific needs, or use them as inspiration for creating your own.

*Big Data, Small Devices* is a one-of-a-kind book for developing investigations with any data accessible online. It also helps you bring learning opportunities for your students as close to them as their personal technology devices.

## Other Resources

- *iPads in the Classroom: From Consumption and Curation to Creation* (LSM1277)
- *Bring Your Own Learning: Transform Instruction with Any Device* (IST1918)
- *Mobile Phones in the Classroom: A Practical Guide for Educators* (IST0558)
- *Reinventing Modern Learning for the Always-On Generation: Strategies and Apps that Work* (SOT1802)