The Earth Exploration Toolbook and DLESE Data Services workshops: mechanisms to facilitate effective use of the international scientific years data by students and teachers

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Although Earth science data and tools are frequently freely available, specific data are generally difficult to find and difficult to use. The Earth Exploration Toolbook (EET, http://serc.carleton.edu/eet) and DLESE (Digital Library for Earth Systems Education) Data Services workshops (http://www.dlese.org/cms/dataservices/) are mechanisms that can facilitate the use of these data and analysis tools in education.

The EET gives educators and students an easy way to learn how to use Earth science data and data analysis tools for learning. Modules (called chapters) in the EET provide step-by-step instructions for accessing and analyzing Earth science datasets within the context of compelling case studies. Each chapter also provides pedagogical information to help the teacher use the data with their students. New EET chapters can be developed through the use of an EET chapter template. Use of published EET chapters by teachers and students is facilitated through a teacher professional development telecon-online workshops.

The development of new EET chapters is facilitated through the DLESE Data Services Workshops. During these workshops data providers, tool developers, scientists, curriculum developers, and educators participate on teams of 5-6 members to create an EET chapter featuring the data and data analysis tools represented on the team.

We will discuss the components of the EET and DLESE Data Services workshops and how they can facilitate the educational use of the international science years data.