



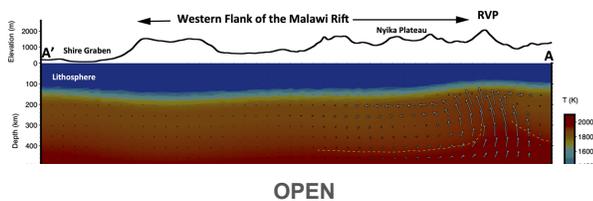
Remote data processing inside the ASPECT analysis tool

Kodi Neumiller (1), James Gallagher (1), D. Sarah Stamps (2), Emmanuel Njinu (2)
 (1) OPeNDAP, (2) Virginia Tech



What is ASPECT?

ASPECT (Advanced Solver for Problems in Earth's ConvecTion) is an analysis tool that is used to simulate convection in the Earth's mantle and other planets.



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ASPECT URL Reader

The ASPECT code base has been modified to detect if a url is in place of the requested file name. If the file name is indeed a url then, upon request, a libdap array is set up using the requested data's Data Descriptor Structure (DDS). The DDS provides information on how the libdap array and C++ arrays should be formatted, such as type, size, and dimension of each of

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ASPECT NetCDF Reader

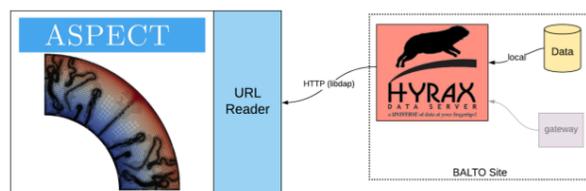
Along with reading data files via url, ASPECT will be able to read both local and remote data that use the NetCDF formatting. ASPECT will use a similar process to the url reader when reading in NetCDF data. NetCDF files will be read in and stored in appropriate arrays depending on the information provided from the meta data within the file.

An SPH file format conversion is also being added to ASPECT to allow for the

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Reading From a Server

Remote data processing allows for easier access to larger and more data, this process allows for a more streamlined workflow when using the ASPECT program.



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