
FMS Atmospheric Dynamical Cores

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This document describes the available documentation and reference material for the FMS Atmospheric Dynamical Cores, as originally described in:

Held, I. M., and M. J. Suarez, 1994: **A proposal for the intercomparison of the dynamical cores of atmospheric general circulation models.** *Bulletin of the American Meteorological Society*, **75(10)**, 1825-1830.

[Abstract](http://www.gfdl.noaa.gov/reference/bibliography/1994/ih9401.html) [http://www.gfdl.noaa.gov/reference/bibliography/1994/ih9401.html] / [PDF](http://www.gfdl.noaa.gov/reference/bibliography/1994/ih9401.pdf) [http://www.gfdl.noaa.gov/reference/bibliography/1994/ih9401.pdf]

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1. Available Documentation and Reference Material

1. The top level [readme file](#) [./readme] contains a short description of the contents of this package.
2. [Quickstart Guide](#) [quickstart.html]: describes how to acquire, compile, and run the atmospheric dynamical core models.
3. [Users Guide](#) [guide.html]: documentation of the release package
4. B-grid Atmospheric Core Documentation
 - [Description of finite differencing \(pdf\)](#) [./src/atmos_bgrid/documentation/bgrid.pdf]
 - [Supplementary documentation](#) [./src/atmos_bgrid/documentation/bgrid_supdoc.html]
 - [List of Fortran module documentation for B-grid core](#) [./exp/bgrid/path_names.html]
5. Spectral Atmospheric Core Documentation
 - [Spectral core \(pdf\)](#) [./src/atmos_spectral/documentation/spectral_core.pdf]
 - [List of Fortran module documentation for spectral core](#) [./exp/spectral/path_names.html]
 - [Barotropic model \(pdf\)](#) [./src/atmos_spectral_barotropic/barotropic.pdf]
 - [List of Fortran module documentation for spectral barotropic model](#) [./exp/spectral_barotropic/path_names.html]
 - [Shallow water model \(pdf\)](#) [./src/atmos_spectral_shallow/shallow.pdf]
 - [List of Fortran module documentation for spectral shallow model](#) [./exp/spectral_shallow/path_names.html]

6. Finite Volume Atmospheric Core Documentation

- Lin, S-J., 2004: A "**vertically Lagrangian**" finite-volume dynamical core for global models. *Monthly Weather Review*, **132(10)**, 2293-2307.

[Abstract](http://www.gfdl.noaa.gov/reference/bibliography/2004/sjl0402.html) [http://www.gfdl.noaa.gov/reference/bibliography/2004/sjl0402.html] / [PDF](http://www.gfdl.noaa.gov/reference/bibliography/2004/sjl0402.pdf) [http://www.gfdl.noaa.gov/reference/bibliography/2004/sjl0402.pdf]

- [List of Fortran module documentation for FV core](#) [../exp/fv/path_names.html]