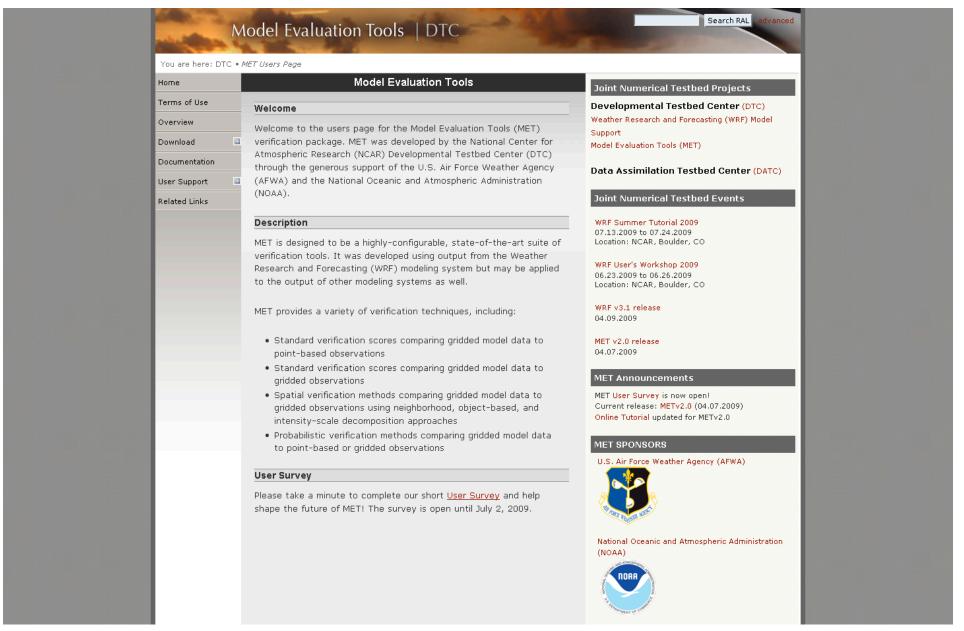
Release History

- METv0.9: Beta release July, 2007
- METv1.0: First official release January, 2008
- METv1.1: Incremental upgrades July, 2008
- METv2.0: Current release April, 2009
 - Pre-installed on tutorial machines
 - 500+ registered users from 66 countries
 - 50/50 University/Non-University users
 - On-line tutorial updated for METv2.0
 - Hands-on tutorial offered with the WRF-Tutorial

Downloading MET

- Download MET release and compile locally.
 - Register and download: www.dtcenter.org/met/ users
- Language:
 - Primarily in C++ with calls to a Fortran library
- Supported Platforms and Compilers:
 - Linux with GNU compilers
 - 2. Linux with Portland Group (PGI) compilers
 - 3. Linux with Intel compilers
 - 4. IBM machines with IBM compilers

www.dtcenter.org/met/users



Dependencies

REQUIRED:

- GNU Make Utility
- C++/Fortran Compilers (GNU, PGI, Intel, or IBM)
- NetCDF version 3 Library
- BUFRLIB Library
- GNU Scientific Library (GSL)
- F2C Library (f2c or g2c, only for some compilers)

RECOMMENDED:

- WRF Post-Processor
- COPYGB (included with WRF-Post)
- R statistics and graphics package

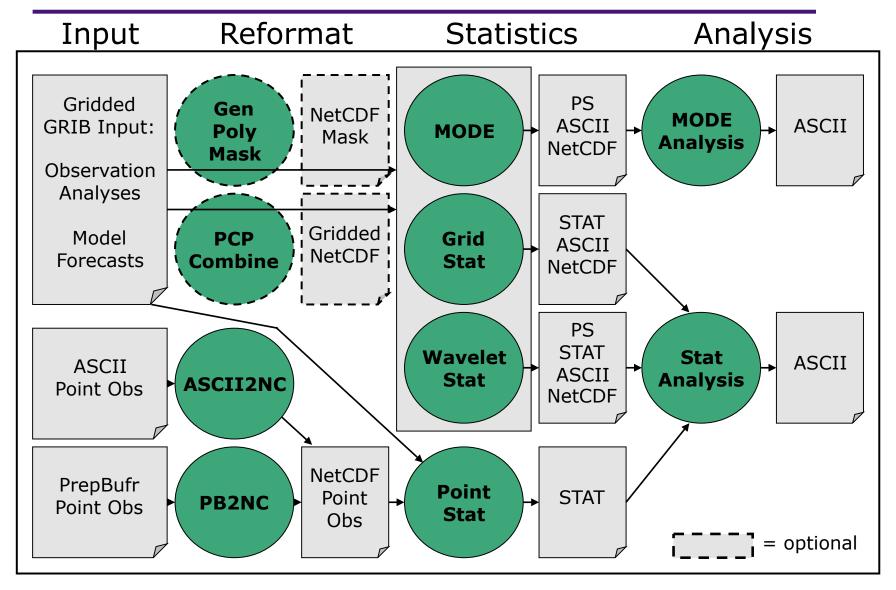
Directory Structure

File or Directory	Contents
README	Installation instructions and release notes.
Makefile_gnu	Top-level Makefile to be configured prior to
(pgi, intel, ibm)	building MET.
lib/	Source code for internal MET libraries.
src/	Source code for the MET applications.
doc/	MET User's Guide.
bin/	Built MET executables.
scripts/	Test scripts to be run after building MET.
data/	Sample data used by the test scripts.
out/	Output generated by the test scripts.

Building MET

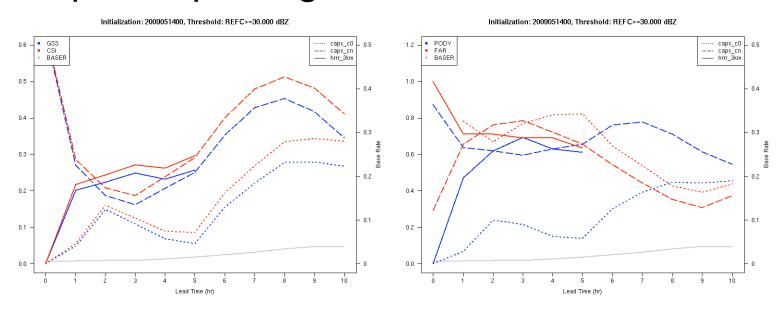
- Steps for building MET:
 - 1. Build required libraries.
 - Same family of compilers for MET
 - 2. Select the appropriate Makefile.
 - GNU, PGI, Intel, or IBM
 - 3. Edit the Makefile.
 - C++ and Fortran compilers
 - Paths for NetCDF, BUFRLIB, GSL, and F2C libraries
 - 4. Run Make to build all of the MET tools.
 - 5. Run the test script and check for runtime errors.
 - Runs each of the MET tools at least once.
 - Uses sample data distributed with the tarball.

MET v2.0 Flowchart



Graphics

- Limited graphics incorporated into MET
- Options for plotting MET statistical output
 - R, NCL, IDL, GNUPlot, and many others
- Submit your own plotting and/or analysis scripts for posting to the MET website.



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R Statistics and Graphics

- The R Project for Statistical Computing (www.r-project.org)
 - Powerful statistical analysis and plotting tools
 - Large and growing user community
 - Freely available and well supported for Linux/ Windows/Mac
- Sample R plotting and analysis scripts posted on the MET website
- Use R to plot data in the practical sessions

Configuration Files

- MET tools controlled using command line options and ASCII configuration files
 - Well commented and documented in MET User's Guide
 - Easy to modify
 - Distributed with the tarball
- Configuration files control things such as:
 - Fields/levels to be verified
 - Thresholds to be applied
 - Interpolation methods to be used
 - Verification methods to be applied
 - Regions over which to accumulate statistics