Chapter 1

METplus System Configuration

This chapter is a guide on configuring METplus.

1.1 Config Best Practices

Below is a list of Best Practices:

- 1. Set your log level to an appropriate level.
 - (a) Debug is the most verbose and is useful for developers and when you are troubleshooting problems
 - (b) Info is the less verbose than Debug and is the recommended level to initially set your log level
 - (c) Warning only logs warnings, error or critical events
 - (d) Error only logs errors or critical events
 - (e) Critical is the least verbose
- 2. Direct your logging either to stdout or to a log file.
- 3. Review your log file to verify that all your processes ran cleanly.
- 4. The order in which you list your METplus config files matter. The last config file on the command line will over-ride any key-values defined in an earlier config file.
- 5. Check the master_metplus.conf file, as it contains all the key-values based on what you have specified. This will help you determine whether you forgot to replace any /path/to with valid paths or to verify that you have defined things as you expected.

1.2 Config File Structure

METplus employs a hierarchy of configuration files employed in METplus. At the lowest level are the "set-and-forget" type configuration files that reside in the

 $METplus_installation_dir/parm/metplus_configl$ At the next level are the configuration files that pertain to a user's specific needs in the $METplus_installation_dir/parm/use_cases/specific_use_case$

- Four configuration files are required for METplus to be fully configured (i.e. all keywords are defined by either whitespace or a valid value):
 - metplus system
 - $-\ metplus_data$
 - metplus_logging
 - metplus_runtime

By default, key-values that require the user's input are set to /path/to. Make sure to replace these with the appropriate directory for your project.

Additional configuration files are optional and the key-values defined there will over-ride any values
defined in the four mandatory METplus configuration files. These additional configuration files enables
users to use a common set of configuration files and to create customized environments for their
verification tasks.

1.3 Config Quick Start Example

Track and Intensity Use case with sample data

- Create a directory where you wish to store the sample data
- Retrieve the sample data from the GitHub repository:
 - In your browser, navigate to https://github.com/NCAR/METplus/releases
 - locate the latest release and click on the sample data.tar.gz link associated with that release
 - save it to the directory you created above, hereafter referred to as INPUT DATA DIRECTORY
 - cd to your \$INPUT DATA DIRECTORY and uncompress the tarball: tar xvfz sample data.tar.gz
 - when you perform a listing of the sample_data directory, the INPUT_DATA_DIRECTORY/sample_data/GFS contains the data you will need for this use case
- Set up the configuration file:
 - Your METplus install directory will hereafter be referred to as METplus INSTALL

- Verify that all the path/to values are replaced with valid paths in the METplus_INSTALL/parm/metplus_conf/metplus_and METplus_INSTALL/parm/metplus_conf/metplus_system.conf files
- Two configuration files are used in this use case, track_and_intensity.conf file and tcmp_mean_median.conf to take cyclone track data, and using tc_pairs_wrapper.py which wraps the MET TC-Pairs tool (to match ADeck and BDeck cyclone tracks to generate matched pairs and error statistics). The tcmpr_plotter_wrapper.py is then used (wraps the MET tool plot_tcmpr.R) to generate a mean and median plots for these matched pairs.
- In your editor, open the METplus_INSTALL/METplus/parm/use_cases/track_and_intensity.conf file:
 - * You will replace any /path/to with actual paths by setting the following:
 - $*\ \ \text{METPLUS_BASE} \ \ \text{to the path to where you installed METplus with } \\ \textit{'ush'}: \ \ \text{METplus_INSTALL/all_users/MIRML} \\ \text{METPLUS_BASE} \ \ \text{to the path to where you installed METplus with } \\ \text{METPLUS_INSTALL/all_users/MIRML} \\ \text{METPLUS_INSTALL} \\ \text{METPLUS_INSTALL}$
 - * PARM_BASE to the path to where you installed METplus, appended with with 'parm': METplus INSTALL/all users/METplus/parm
 - * OUTPUT BASE to where you wish to save the output:
 - · ADECK TRACK DATA DIR to INPUT DATA DIRECTORY/sample data/GFS/track data
 - * save your changes and exit your editor
 - $* \ In \ your \ editor, open \ the \ METplus_INSTALL/METplus/parm/use_cases/track_and_intensity/examples/tcm/stall/metplus/parm/use_cases/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/examples/track_and_intensity/$
 - * Verify that PROCESS_LIST is set to TcPairs, TCMPRPlotter. This instructs METplus to run the TcPairs wrapper first (TC-Pairs) followed by the TCMPR plotter wrapper (plot TCMPR.R).

• Run the use case:

- Make sure you have set the following environment in your .cshrc (C shell) or .bashrc (Bash):
 - * csh: setenv RSCRIPTS BASE \$MET BASE/scripts/Rscripts
 - * bash: export RSCIPTS BASE \$MET BASE/scripts/Rscripts
 - * Refer to Section 2.7 for the full instructions on setting up the rest of your environment
 - * on your command line, run:
 - $\cdot \ master_metplus.py-c \ use_cases/track_and_intensity/track_and_intensity.conf-c \ use_cases/track_and_intensity.conf-c \ use_cases/track_and_intensity/track_and_intensity.conf-c \ use_cases/track_and_intensity.conf-c \ use_cases/track_and_intensit$
 - * When complete, you will have a log file in the output directory you specified, and under the tc_pairs directory you will see .tcst files under the 201412 subdirectory. These are the matched pairs created by the MET tool Tc-pairs and can be viewed in any text editor.
 - * Plots are generated under the tcmpr_plots subdirectory, in .png format. You should have the following plots which can be viewed by any graphics viewers such as 'display' on Linux/Unix hosts:
 - · AMAX WIND-BMAX WIND mean.png
 - · AMAX WIND-BMAX WIND median.png
 - · AMSLP-BMSLP mean.png
 - · AMSLP-BMSLP median.png
 - · TK ERR mean.png
 - · TK ERR median.png

1.4 A-Z Config Glossary

This glossary was created from the two commands:

 $grep = allopts.conf \mid grep - v \mid \# \mid sort \mid uniq > uniqueopts.conf$

General form of glossary entry:

CONFIG NAME HERE

...Some description here...

Used by: Which METplus utility is this used by?

Family: Which family? [dir], [config], [filename_templates], [exe], [regex_pattern], etc...

Default: If it makes sense to include a default value (or value shipped in a release), do it here

1.4.1 A

ADECK FILE PREFIX

Prefix of the files in ATCF format containing tropical cyclone forecast data ("adeck" matched pairs).

Used by: to pairs wrapper.py

Family: [config]
Default: Varies

ADECK TRACK DATA DIR

Directory that contains the ATCF formatted files containing tropical cyclone forecast data ("adeck" matched pairs).

Used by: to pairs wrapper.py

Family: [dir]
Default: Varies

AMODEL

The model name of the ADeck model data

Used by: cyclone plotter wrapper.py, to stat wrapper.py

Family: [config]

Default:

ANLY ASCII REGEX LEAD

The regular expression describing the analysis (obs) file name (in ASCII format) of the intermediate file generated when running a series by lead case.

Used by: series by lead wrapper.py

Family: [regex pattern]

Default:

ANLY NC TILE REGEX

The regular expression used to search the input files that are in netCDF format and used in the series by analysis task.

Used by: series by lead wrapper.py, series by init wrapper.py

Family: [regex pattern]

Default:

ANLY TILE PREFIX

The prefix to the filename for the analysis file that is created as part of a series analysis.

Used by: feature_util.py
Family: [regex pattern]

Default:

ANLY TILE REGEX

The regular expression for the analysis input file the file is in GRIB2.

Used by: series_by_lead_wrapper.py, series_by_init_wrapper.py

Family: [regex pattern]

Default:

1.4.2 B

BACKGROUND MAP

Control whether or not a background map shows up for series analysis plots. Set to 'yes' if background map desired.

Used by: series by lead wrapper.py, series by init wrapper.py

Family: [config]Default: no

BASIN

Control what basins are desired for tropical cyclone analysis.

Per the MET users' guide, acceptable basin ID's are:

WP = Western Northern Pacific

IO = Northern Indian Ocean

SH = Southern Hemisphere

 ${\rm CP}={\rm Central\ Northern\ Pacific}$

EP = Eastern Northern Pacific

AL = Northern AtlanticSL = Southern Atlantic

Used by: cyclone plotter wrapper.py, to pairs wrapper.py, to stat wrapper.py

Family: [config]
Default: Varies

BDECK FILE PREFIX

Relevant for non-ATCF tropical cyclone data. The filename prefix for the BDeck data.

Used by: tc_pairs_wrapper.py

Family: [config]
Default: Varies

BDECK TRACK DATA DIR

The input directory where the BDeck track data resides.

Used by: to pairs wrapper.py

Family: [dir]
Default: Varies

BEG TIME

Beginning time for analysis in YYYYMMDD format.

Used by: pb2nc wrapper.py, point stat wrapper.py

Family: [config]
Default: Varies

BMODEL

The model name of the BDeck model data.

Used by: to stat wrapper.py

Family: [config]

Default:

1.4.3 C

CIRCLE MARKER SIZE

Control the size of the circle marker in the cyclone plotter.

Used by: cyclone_plotter_wrapper.py

Family: [config]
Default: 41

CONFIG DIR

Directory containing config files relevant to MET tools.

Used by: compare gridded wrapper.py, ensemble stat wrapper.py, grid stat wrapper.py, mode wrapper.py

Family: [dir]
Default: Varies

CONFIG FILE

Specific configuration file name to use for MET tools.

Used by: grid stat wrapper.py, mode wrapper.py, tcmpr plotter wrapper.py, tc stat wrapper.py

Family: [config]
Default: Varies

CONVERT EXE

Path to the ImageMagick "convert" executable.

Used by: pb2nc wrapper.py, point stat wrapper.py, series by init wrapper.py, series by lead wrapper.py

Family: [exe]
Default: /path/to

CROSS MARKER SIZE

Control the size of the cross marker in the cyclone plotter.

Used by: cyclone plotter wrapper.py

Family: [config]
Default: 51

CUT EXE

Path to the Linux "cut" executable.

Used by: pb2nc_wrapper.py, point_stat_wrapper.py

Family: [exe]
Default: /path/to

CYCLONE

Specify which cyclone numbers to include in the tropical cyclone analysis. Per the MET users' guide, this can be any number 01-99 (HH format). Use a space or comma separated list, or leave unset if all cyclones are desired.

Used by: to pairs wrapper.py, to stat wrapper.py

Family: [config]

CYCLONE INIT DATE

Initialization date for the cyclone forecasts in YYYYMMDD format.

Used by: cyclone plotter wrapper.py

Family: [config]
Default: Varies

CYCLONE INIT HR

Initialization hour for the cyclone forecasts in HH format.

Used by: cyclone_plotter_wrapper.py

Family: [config]
Default: Varies

CYCLONE INPUT DIR

Input directory for the cyclone plotter. This should be the output directory for the MET TC Pairs utility.

Used by: cyclone plotter wrapper.py

Family: [dir]
Default: Varies

CYCLONE MODEL

Define the model being used for the tropical cyclone forecasts.

Used by: cyclone_plotter_wrapper.py

Family: [config]
Default: Varies

CYCLONE OUT DIR

Specify the directory where the output from the cyclone plotter should go.

Used by: cyclone_plotter_wrapper.py

Family: [dir]
Default: Varies

CYCLONE PLOT TITLE

Title string for the cyclone plotter.

Used by: cyclone plotter wrapper.py

1.4.4 D

DEMO YR

The demo year. This is an optional value used by the plot_TCMPR.R script, (which is wrapped by tcmpr plotter wrapper.py). Please refer to Chapter 21 in the MET User's Guide for more details.

Used by: tcmpr plotter wrapper.py

Family: [config]
Default: Varies

DEP VARS

Corresponds to the optional flag -dep in the plot_TCMPR.R, which is wrapped by tcmpr_plotter_wrapper.py. The value to this flag is a comma-separated list of dependent variable columns to plot. Please refer to Chapter 21 in the MET User's Guide for more details.

Used by: tcmpr plotter wrapper.py

Family: [config]
Default: Varies

DLAND FILE

The file generated by the MET tool tc_dland, containing the gridded representation of the minimum distance to land. Please refer to Chapter 18 of the MET User's Guide for more information about the tc_dland tool.

Used by: tc_pairs_wrapper.py

Family: [config]
Default: Varies

DLAT

The latitude value, in degrees.

Used by: met_util.py
Family: [config]
Default: 0.5

DLON

The longitude value, in degrees.

 ${\it Used~by:} \ {\rm met_util.py}$

Family: [config]
Default: 0.5

1.4.5 E

EGREP EXE

Path to the Linux "egrep" executable.

Used by: feature util.py, pb2nc wrapper.py, point stat wrapper.py

Family: [exe]
Default: /path/to

END DATE

Ending time/date string for analysis with format YYYYMMDDHH.

Used by: pb2nc_wrapper.py, point_stat_wrapper.py

Family: [config]
Default: Varies

END HOUR

Ending hour for analysis with format HH.

Used by: pb2nc_wrapper.py, point_stat_wrapper.py

Family: [config]
Default: Varies

END TIME

Ending date string for analysis with format YYYYMMDD.

Used by: pb2nc_wrapper.py, point_stat_wrapper.py

Family: [config]
Default: Varies

EXTRACT OUT DIR

Set the output directory for the METplus extract tiles utility.

Used by: extract_tiles_wrapper.py, series_by_init_wrapper.py, series_by_lead_wrapper.py

Family: [dir]
Default: Varies

EXTRACT TILES FILTER OPTS

Control what options are passed to the METplus extract tiles utility.

Used by: extract tiles wrapper.py

EXTRACT TILES VAR LIST

Control what variables the METplus extract tiles utility runs on.

Used by: feature util.py

Family: [config]
Default: Varies

1.4.6 F

FCST 1 FIELD NAME

This variable is used to define a 1 hour accumulation field in the forecast dataset used in the MET tool pcp_combine.

Used by: pcp combine wrapper.py

Family: [config]
Default: Varies

FCST 6 FIELD NAME

This variable is used to define a 6 hour accumulation field in the forecast dataset used in the MET tool pcp combine.

Used by: pcp combine wrapper.py

Family: [config]
Default: Varies

FCST ASCII REGEX LEAD

Regular expression used to find the forecast file (ASCII format) generated as an intermediate step in the series by lead use case.

Used by: series by lead wrapper.py

Family: [regex pattern]

Default: Varies

FCST GEMPAK INPUT DIR

Input directory for GEMPAK formatted forecast files.

Used by: pcp combine wrapper.py

Family: [dir]
Default: Varies

FCST GEMPAK TEMPLATE

Template used to specify input filenames for GEMPAK formatted forecast files.

Used by: pcp combine wrapper.py

Family: [filename_templates]

Default: Varies

FCST GRID STAT INPUT DIR

Input directory for forecast files to use with the MET tool grid stat.

Used by: ensemble_stat_wrapper.py, grid_stat_wrapper.py

Family: [dir]
Default: Varies

FCST GRID STAT INPUT TEMPLATE

Template used to specify input filenames for the MET tool grid stat.

Used by: grid stat wrapper.py, grid stat wrapper.py

Family: [filename templates]

Default: Varies

FCST HR END

Specify the maximum forecast hour to use.

Used by: point stat wrapper.py

Family: [config]
Default: Varies

FCST HR INTERVAL

Specify the stride for forecast lead times.

Used by: point_stat_wrapper.py

Family: [config]
Default: Varies

FCST HR START

Specify the starting forecast hour to use.

Used by: point stat wrapper.py

Family: [config]
Default: Varies

FCST INIT INTERVAL

Specify the stride for forecast initializations.

Used by: compare_gridded_wrapper.py, ensemble_stat_wrapper.py, grid_stat_wrapper.py, mode_wrapper.py

FCST INPUT DIR REGEX

Specify the regular expression used for searching for forecast file input directories.

Used by: point_stat_wrapper.py

Family: [regex pattern]

Default: Varies

FCST INPUT DIR

Specify the input directory for the forecast files.

 $\label{local_by:compare_grid} \textbf{\textit{Used by:}} \ \text{compare_gridded_wrapper.py, grid_stat_wrapper.py, mode_wrapper.py, point_stat_wrapper.py, pcp_combine_wrapper.py}$

Family: [dir]
Default: Varies

FCST INPUT FILE REGEX

Regular expression to use when identifying which forecast file to use.

Used by: point_stat_wrapper.py

Family: [regex pattern]

 ${\it Default:}\ {\it Varies}$

FCST INPUT FILE TMPL

Specify the filename template for input forecast files.

Used by: point_stat_wrapper.py
Family: [filename templates]

Default: Varies

FCST IS DAILY FILE

Specify whether the forecast file is a daily file or not.

Acceptable values: true/false

Used by: pcp combine wrapper.py

Family: [config]
Default: Varies

FCST IS PROB

Specify whether the forecast data are probabilistic or not.

Acceptable values: true/false

Used by: compare gridded wrapper.py, ensemble stat wrapper.py, grid stat wrapper.py, mode wrapper.py

Family: [config]

FCST LEVEL

Specify what accumulation level should be used from the forecast data for the analysis.

Used by: pcp_combine_wrapper.py

Family: [config]
Default: Varies

FCST MAX FORECAST

Specify the maximum forecast lead time to use for the analysis.

Used by: compare gridded wrapper.py, ensemble stat wrapper.py, grid stat wrapper.py, mode wrapper.py

Family: [config]
Default: Varies

FCST MXUPHL 5000-2000 THRESH

Deprecated.

Used by: Family: Default:

FCST NATIVE DATA TYPE

Specify the data format of the forecast data.

Used by: pcp combine wrapper.py

Family: [config]
Default: Varies

FCST NC TILE REGEX

Define the regular expression for input forecast files that are in netCDF.

Used by: series by lead wrapper.py, series by init wrapper.py

Family: [regex pattern]

Default: Varies

FCST PCP COMBINE INPUT DIR

Specify the input directory for forecast files used with the MET pcp combine tool.

Used by: pcp combine wrapper.py

Family: [dir]
Default: Varies

FCST PCP COMBINE INPUT TEMPLATE

Template used to specify input filenames for forecast files used by the MET pcp combine tool.

Used by: pcp_combine_wrapper.py

Family: [filename templates]

Default: Varies

FCST PCP COMBINE OUTPUT DIR

Specify the output directory for forecast files generated by the MET pcp combine tool.

Used by: pcp_combine_wrapper.py

Family: [dir]
Default: Varies

${\tt FCST_PCP_COMBINE_OUTPUT_TEMPLATE}$

Template used to specify output filenames for forecast files generated by the MET pcp combine tool.

Used by: pcp_combine_wrapper.py

Family: [filename_templates]

Default: Varies

FCST PCP COMBINE RUN

Specify whether to run the MET pcp combine tool on forecast data or not.

Acceptable values: true/false

Used by: pcp_combine_wrapper.py

Family: [config]
Default: Varies

FCST REFC 0 THRESH

Deprecated.

Used by: Family: Default:

FCST REGRID DATA PLANE TEMPLATE

Template used to specify filenames for forecast data used by the MET regrid data plane tool.

Used by: regrid data plane wrapper.py

Family: [filename templates]

Default: Varies

FCST TILE PREFIX

Prefix for forecast tile files. Used to create filename of intermediate files that are created while performing a series analysis.

Used by: feature_util.py
Family: [regex_pattern]

Default: Varies

FCST TILE REGEX

Regular expression for forecast input files that are in GRIB2.

 ${\it Used~by:}\ {\it series_by_init_wrapper.py}, {\it series_by_lead_wrapper.py}$

Family: [regex pattern]

Default: Varies

FCST VAR

Define the name of the forecast variable to be used in the analysis.

Used by: compare gridded wrapper.py, ensemble stat wrapper.py, make plots wrapper.py, met util.py

Family: [config]
Default: Varies

FCST VAR1 LEVELS

Define the levels for the first forecast variable to be used in the analysis. There can be N number of these variables defined in configuration files, simply increment the "_VAR1_" string to match the total number of variables being used, e.g.:

FCST_VAR1_LEVELS
FCST_VAR2_LEVELS

.

FCST VARN LEVELS

Used by: make plots wrapper.py, met util.py

Family: [config]
Default: Varies

FCST VAR1 NAME

Define the name for the first forecast variable to be used in the analysis. There can be N number of these variables defined in configuration files, simply increment the "_VAR1_" string to match the total number of variables being used, e.g.:

```
FCST_VAR1_NAME
FCST_VAR2_NAME
```

.

FCST VARN NAME

Used by: make_plots_wrapper.py, met_util.py

Family: [config]
Default: Varies

FCST VAR1 OPTIONS

Define the options for the first forecast variable to be used in the analysis. There can be N number of these variables defined in configuration files, simply increment the "_VAR1_" string to match the total number of variables being used, e.g.:

FCST_VAR1_OPTIONS
FCST_VAR2_OPTIONS
.
.

FCST VARN OPTIONS

Used by: make_plots_wrapper.py, met_util.py

Family: [config]
Default: Varies

FCST VAR1 THRESH

Define the threshold(s) for the first forecast variable to be used in the analysis. There can be N number of these variables defined in configuration files, simply increment the "_VAR1_" string to match the total number of variables being used, e.g.:

FCST_VAR1_THRESH FCST_VAR2_THRESH .

FCST VARN THRESH

Used by: met_util.py
Family: [config]
Default: Varies

FHR BEG

Specify the first forecast lead time to use in the analysis. Use in combination with FHR_END and FHR_INC.

Used by: series by lead wrapper.py

FHR END

Specify the last forecast lead time to use in the analysis. Use in combination with FHR BEG and FHR INC.

Used by: series_by_lead_wrapper.py

Family: [config]
Default: Varies

FHR GROUP BEG

Define which forecast lead time should be first in a group of forecast leads to use in the analysis. Use in combination with FHR GROUP END and FHR INC.

Example:

 $FHR_GROUP_BEG = 24$ $FHR_GROUP_END = 42$ $FHR_INC = 6$

List of forecast leads processed: [24, 30, 36, 42]

Used by: series_by_lead_wrapper.py

Family: [config]
Default: Varies

FHR GROUP END

Define which forecast lead time should be the last in a group of forecast leads to use in the analysis. Use in combination with FHR GROUP BEG and FHR INC.

Example:

 $\begin{aligned} & \text{FHR_GROUP_BEG} &= 24 \\ & \text{FHR_GROUP_END} &= 42 \\ & \text{FHR_INC} &= 6 \end{aligned}$

List of forecast leads processed: [24, 30, 36, 42]

Used by: series by lead wrapper.py

Family: [config]
Default: Varies

FHR GROUP LABELS

Label strings to use for the forecast groups.

Used by: series by lead wrapper.py

Family: [config]
Default: Varies

FHR INC

Stride to use for incrementing forecast lead times used in the analysis. Use in combination with FHR_BEG and FHR_END or FHR_GROUP_BEG and FHR_GROUP_END.

Used by: series_by_lead_wrapper.py

Family: [config]
Default: Varies

FILTER

Corresponds to the optional -filter argument to the plot_TCMPR.R script which is wrapped by tcmpr_plotter_wrapper.py. This is a list of filtering options for the tc_stat tool.

Used by: tcmpr_plotter_wrapper.py

Family: [config]
Default: Varies

FILTERED TCST DATA FILE

Corresponds to the optional -tcst argument to the plot_TCMPR.R script which is wrapped by tcmpr_plotter_wrapper.py. This is a tcst data file to be used instead of running the tc_stat tool. Indicate a full path to the data file.

Used by: tcmpr_plotter_wrapper.py

Family: [config]
Default: Varies

FOOTNOTE FLAG

This corresponds to the optional -footnote flag in the plot_TCMPR.R script which is wrapped by tcmpr_plotter_wrapper.py. According to the plot_TCMPR.R usage, this flag is used to disable footnote (date).

Used by: tcmpr_plotter_wrapper.py

Family: [config]
Default: Varies

FORECAST TMPL

Filename template used to filter forecast files.

Used by: tc_pairs_wrapper.py
Family: [filename templates]

Default: Varies

FOURIER HEIGHT DECOMP

Specify whether to perform a Fourier height decomposition or not.

Acceptable values: true/false

Used by: make plots wrapper.py, stat analysis wrapper.py

1.4.7 G

GEMPAKTOCF INPUT DIR

Specify the input directory for the tool used to convert GEMPAK files to netCDF.

Used by: gempak to cf wrapper.py

Family: [dir]
Default: Varies

GEMPAKTOCF INPUT TEMPLATE

Filename template used for input files to the tool used to convert GEMPAK files to netCDF.

Used by: gempak_to_cf_wrapper.py

Family: [filename templates]

Default: Varies

GEMPAKTOCF OUTPUT DIR

Specify the output directory for files generated by the tool used to convert GEMPAK files to netCDF.

Used by: gempak_to_cf_wrapper.py

Family: [dir]
Default: Varies

GEMPAKTOCF OUTPUT TEMPLATE

Filename template used for output files from the tool used to convert GEMPAK files to netCDF.

Used by: gempak to cf wrapper.py

Family: [filename_templates]

Default: Varies

GENERATE TRACK ASCII

Specify whether or not to produce an ASCII file containing all of the tracks in the plot.

Acceptable values: true/false

Used by: cyclone plotter wrapper.py

Family: [conf]
Default: Varies

GEN SEQ

Deprecated.

Used by:

Family:

Default:

GFS ANLY FILE TMPL

Filename template used to identify the GFS analysis file.

Used by: feature_util.py
Family: [filename_templates]

Default: Varies

GFS FCST FILE TMPL

Filename templated used to identify the GFS forecast files.

Used by: feature_util.py
Family: [filename templates]

Default: Varies

GRID STAT CONFIG

Specify the absolute path to the configuration file used by the MET grid stat tool.

Used by: grid_stat_wrapper.py

Family: [config]
Default: Varies

GRID STAT OUT DIR

Specify the output directory where files from the MET grid stat tool are written.

Used by: grid stat wrapper.py

Family: [dir]
Default: Varies

1.4.8 H

HFIP BASELINE

Corresponds to the optional -hfip_bsln flag in the plot_TCMPR.R script which is wrapped by tcmpr_plotter_wrapper.py. This is a string that indicates whether to add the HFIP baseline, and indicates the version (no, 0, 5, 10 year goal).

Used by: tcmpr plotter wrapper.py

1.4.9 I

INIT BEG

Specify the beginning initialization time to be used in the analysis. Format can be controlled by INIT TIME FMT.

Used by: command_builder.py, extract_tiles_wrapper.py, make_plots_wrapper.py, master_metplus.py, stat_analysis_wrapper.py, tc_pairs_wrapper.py, tc_stat_wrapper.py

Family: [config]
Default: Varies

INIT BEG HOUR

Specify the beginning initialization hour to be used in the analysis. Format is HH.

Used by: make plots wrapper.py, stat analysis wrapper.py

Family: [config]
Default: Varies

INIT END

Specify the ending initialization time to be used in the analysis. Format can be controlled by INIT TIME FMT.

Family: [config]
Default: Varies

INIT END HOUR

Specify the ending initialization hour to be used in the analysis. Format is HH.

Used by: make_plots_wrapper.py, stat_analysis_wrapper.py

Family: [config]
Default: Varies

INIT EXCLUDE

Specify which, if any, forecast initializations to exclude from the analysis.

Used by: tc_pairs_wrapper.py, tc_stat_wrapper.py

Family: [config]
Default: Varies

INIT HOUR END

Specify the ending initialization hour to be used in the analysis. Format is HH.

Used by: extract tiles wrapper.py, to pairs wrapper.py, to stat wrapper.py

Family: [config]

INIT INCLUDE

Specify which forecast initializations to include in the analysis.

Used by: to pairs wrapper.py, to stat wrapper.py

Family: [config]
Default: Varies

INIT INCREMENT

Control the increment or stride to use when stepping between forecast initializations. Units are seconds.

Used by: command_builder.py, extract_tiles_wrapper.py, make_plots_wrapper.py, master_metplus.py, stat_analysis_wrapper.py, tc_pairs_wrapper.py, tc_stat_wrapper.py

Family: [config]
Default: Varies

INIT TIME FMT

Specify a formatting string to use for INIT_BEG and INIT_END.

Used by: command_builder.py, master_metplus.py

Family:
Default:

INTERVAL TIME

Define the interval time in hours (HH) to be used by the MET pb2nc tool.

Used by: pb2nc_wrapper.py

Family: [config]
Default: Varies

- 1.4.10 J
- 1.4.11 K
- 1.4.12 L

LAT ADJ

Specify a latitude adjustment, in degrees to be used in the analysis.

Used by: met_util.py
Family: [config]

LEAD

For cyclone plotter wrapper.py, this refers to the column of interest in the input ASCII cyclone file.

In the tcmpr_plotter_wrapper.py, this corresponds to the optional -lead argument in the plot_TCMPR.R script (which is wrapped by tcmpr_plotter.py). This argument is set to a comma-separted list of lead times (h) to be plotted.

In feature util.py, this corresponds to the name of the column of interest in the input ASCII data file.

In tc_stat_wrapper.py, this corresponds to the name of the column of interest in the input ASCII data file.

Used by: cyclone plotter wrapper.py, tcmpr plotter wrapper.py, feature util.py, tc stat wrapper.py

Family: [config]
Default: Varies

LEAD LIST

Specify a list of forecast leads to include in the analysis. Comma separated list format, e.g.: 0, 24, 48, 72, 96, 120

Used by: make plots wrapper.py, stat analysis wrapper.py

Family: [config]
Default: Varies

LEAD SEQ

Specify the sequence of forecast lead times to include in the analysis. Comma separated list format, e.g.: 0, 6, 12

Used by: compare_gridded_wrapper.py, ensemble_stat_wrapper.py, gempak_to_cf_wrapper.py, grid_stat_wrapper.py, mode_wrapper.py, reformat_gridded_wrapper.py

Family: [config]
Default: Varies

LEGEND

The text to be includede in the legend of your plot.

Used by: tcmpr_plotter_wrapper.py

Family: [config]
Default: Varies

LOG DIR

Specify the directory where log files from MET and METplus should be written.

Used by: command builder.py, met util.py

Family: [dir]

LOG LEVEL

Specify the level of logging.

Everything above this level is sent to standard output. To quiet the output to a comfortable level, set this to "ERROR".

Options (ordered MOST verbose to LEAST verbose):

NOTSET

 ${\bf DEBUG}$

INFO

WARNING

ERROR

CRITICAL

 ${\it Used~by:} \ {\rm met_util.py}$

Family: [config]
Default: Varies

LOG METPLUS

Control the filename of the METplus log file. Control the timestamp appended to the filename with LOG_TIMESTAMP_TEMPLATE. To turn OFF all logging, do not set this option.

Used by: master metplus.py, met util.py

Family: [config]
Default: Varies

LOG MET OUTPUT TO METPLUS

Control whether logging output from the MET tools is sent to the METplus log file, or individual log files for each MET tool.

Used by: command runner.py

Family: [config]
Default: yes/no

LOG MET VERBOSITY

Control the verbosity of the logging from the MET tools.

0 = Least amount of logging (lowest verbosity)

5 = Most amount of logging (highest verbosity)

Used by: command builder.py

Family: [config]
Default: 2

LOG TIMESTAMP TEMPLATE

Set the timestamp template for the METplus log file. Use Python strftime directives, e.g. %Y%m%d for YYYYMMDD.

Used by: met_util.py
Family: [config]
Default: %Y%m%d

LON ADJ

Specify a longitude adjustment, in degrees to be used in the analysis.

Used by: met_util.py
Family: [config]
Default: Varies

LOOP BY INIT

Control whether the analysis is processed across initialization times or not.

Used by: command_builder.py, compare_gridded_wrapper.py, ensemble_stat_wrapper.py, grid_stat_wrapper.py, make_plots_wrapper.py, master_metplus.py, mode_wrapper.py, stat_analysis_wrapper.py

Family: [config]
Default: true

LOOP METHOD

Control the looping method for METplus. Valid options are "times" or "processes".

Used by: master metplus.py, pb2nc wrapper.py, point stat wrapper.py

Family: [config]
Default: Varies

1.4.13 M

METPLUS BASE

Set the base directory for the METplus installation.

Used by: config launcher.py, grid stat wrapper.py, pb2nc wrapper.py, point stat wrapper.py, tc stat wrapper.py

Family: [dir]
Default: /path/to

METPLUS CONF

Provide the absolute path to the METplus final configuration file. This file will contain every configuration option and value used when METplus was run.

Used by: config launcher.py

Family: [config]
Default: Varies

MET BASE

The base directory where your MET installation resides.

Used by: cyclone_plotter_wrapper.py, extract_tiles_wrapper.py, master_metplus.py, met_util.py, pb2nc_wrapper.py,
point_stat_wrapper.py, series_by_init_wrapper.py, series_by_lead_wrapper.py, tcmpr_plotter_wrapper.py,
tc pairs wrapper.py, usage wrapper.py

Family: [dir]
Default:

MET BIN

The location of MET binaries.

Used by: Family: Default:

MET BUILD BASE

The base directory of the MET install. Only needed if using MET version 6.0

Used by: tcmpr plotter wrapper.py

Family: [dir]
Default: Varies

MET INSTALL DIR

The base directory of the MET install. To be defined when using MET version 6.1 and beyond

Used by: compare_gridded_wrapper.py, cyclone_plotter_wrapper.py, ensemble_stat_wrapper.py, extract_tiles_wrapper.py, feature_util.py, grid_stat_wrapper.py, mode_wrapper.py, pb2nc_wrapper.py, pcp_combine_wrapper.py, tat_wrapper.py, regrid_data_plane_wrapper.py, series_by_init_wrapper.py, series_by_lead_wrapper.py, stat_analysis_wrapper.py, tcmpr_plotter_wrapper.py, tc_pairs_wrapper.py, tc_stat_wrapper.py, wavelet_stat_wrapper.py.

Family: [dir]
Default: Varies

MISSING VAL

Specify the missing value code.

Used by: to pairs wrapper.py

MISSING VAL TO REPLACE

Specify the missing value code to replace.

Used by: tc_pairs_wrapper.py

Family: [config]
Default: Varies

MODEL

Specify the model name.

Used by: compare_gridded_wrapper.py, ensemble_stat_wrapper.py, stat_analysis_wrapper.py, tc_pairs_wrapper.py

Family: [config]
Default: Varies

MODEL DATA DIR

Specify the directory where the model data are located.

Used by: feature_util.py

Family: [dir]
Default: Varies

MODEL LIST

Specify the list of models that were used in the analysis.

Used by: make_plots_wrapper.py, stat_analysis_wrapper.py

Family: [config]
Default: Varies

MODEL NAME

Specify the model name.

Used by: point_stat_wrapper.py

Family: [config]
Default: Varies

MODEL TYPE

Specify the model name.

 $\label{local_by:compare_gridded_wrapper.py, ensemble_stat_wrapper.py, grid_stat_wrapper.py, grid_stat_wrapper.py, mode_wrapper.py, stat_analysis_wrapper.py$

1.4.14 N

NCAP2 EXE

Path to the "ncap2" executable.

Used by: pb2nc wrapper.py, point stat wrapper.py, series by lead wrapper.py

Family: [exe]
Default: /path/to

NCDUMP EXE

Path to the "ncdump" executable.

Used by: met_util.py, pb2nc_wrapper.py, point_stat_wrapper.py, series_by_lead_wrapper.py

Family: [exe]
Default: /path/to

NC FILE TMPL

File template used to match netCDF files used for analysis.

Used by: pb2nc_wrapper.py
Family: [filename templates]

Default: Varies

NLAT

The number of latitude points.

Used by: met_util.py
Family: [config]
Default: Varies

NLON

The number of longitude points.

Used by: met_util.py
Family: [config]
Default: Varies

NO EE

Set the "NO_EE" flag for the TC Matched Pairs plotting utility.

Acceptable values: yes/no

Used by: tcmpr plotter wrapper.py

Family: [config]

Default: no

NO LOG

Set the "NO LOG" flag for the TC Matched Pairs plotting utility.

Acceptable values: yes/no

Used by: tcmpr_plotter_wrapper.py

Family: [config]
Default: no

1.4.15 O

OBS 12 FIELD NAME

This variable is used to define a 12 hour accumulation field in the observation dataset used in the MET tool pcp_combine.

Used by: pcp combine wrapper.py

Family: [config]
Default: Varies

OBS 1 FIELD NAME

This variable is used to define a 1 hour accumulation field in the observation dataset used in the MET tool pcp combine.

Used by: pcp combine wrapper.py

Family: [config]
Default: Varies

OBS 24 FIELD NAME

This variable is used to define a 24 hour accumulation field in the observation dataset used in the MET tool $pcp_combine$.

Used by: pcp_combine_wrapper.py

Family: [config]
Default: Varies

OBS 3 FIELD NAME

This variable is used to define a 3 hour accumulation field in the observation dataset used in the MET tool pcp_combine.

Used by: pcp combine wrapper.py

Family: [config]

OBS 6 FIELD NAME

This variable is used to define a 6 hour accumulation field in the observation dataset used in the MET tool pcp combine.

Used by: pcp_combine_wrapper.py

Family: [config]
Default: Varies

OBS BUFR VAR LIST

Specify which BUFR codes to use from the observation dataset when using the MET pb2nc tool. Format is comma separated list, e.g.:

PMO, TOB, TDO

Used by: pb2nc_wrapper.py

Family: [config]
Default: Varies

OBS DATA INTERVAL

Specify the accumulation interval of the observation dataset used by the MET pcp combine tool.

Used by: pcp combine wrapper.py

Family: [config]
Default: Varies

OBS GEMPAK INPUT DIR

Specify the input directory for GEMPAK formatted observation files.

Used by: pcp_combine_wrapper.py

Family: [dir]
Default: Varies

OBS GEMPAK TEMPLATE

Filename template used to filter GEMPAK formatted observation files.

Used by: pcp combine wrapper.py

Family: [filename templates]

Default: Varies

OBS GRID STAT INPUT DIR

Specify the directory where the input observation files are for the MET grid stat tool.

Used by: grid stat wrapper.py

Family: [dir]

OBS GRID STAT INPUT TEMPLATE

Filename template used to filter input observation files used by the MET grid_stat tool.

Used by: grid_stat_wrapper.py
Family: [filename_templates]

Default: Varies

OBS INPUT DIR

Specify the input directory for observation files.

Used by: compare_gridded_wrapper.py, grid_stat_wrapper.py, mode_wrapper.py, point_stat_wrapper.py

Family: [dir]
Default: Varies

OBS_INPUT_DIR_REGEX

Specify the regular expression to use when searching for observation file input directories.

Used by: point_stat_wrapper.py

Family: [regex_pattern]

Default: Varies

OBS INPUT FILE REGEX

Regular expression used to filter observation input files used in the analysis.

Used by: point_stat_wrapper.py,

Family: [regex pattern]

Default: Varies

OBS INPUT FILE TEMPL

Specify the filename template to use for observation input files.

Used by: point_stat_wrapper.py,
Family: [filename templates]

Default: Varies

OBS IS DAILY FILE

Specify whether the forecast file is a daily file or not.

Acceptable values: true/false

Used by: pcp_combine_wrapper.py

OBS LEVEL

Specify what accumulation level should be used from the observation data for the analysis.

Used by: pcp_combine_wrapper.py

Family: [config]
Default: Varies

OBS MXUPHL 500 THRESH

Deprecated.

Used by: Family: Default:

$OBS\ MergedReflectivityQCComposte\ 500\ THRESH$

Deprecated.

Used by: Family: Default:

OBS NAME

Provide a string to identify the observation dataset name.

Used by: point_stat_wrapper.py

Family: [config]
Default: Varies

OBS NATIVE DATA TYPE

Specify the data format of the observation data.

Used by: pcp combine wrapper.py

Family: [config]
Default: Varies

OBS PCP COMBINE INPUT DIR

Specify the input directory for the observation data used by the MET pcp combine tool.

Used by: pcp_combine_wrapper.py

Family: [dir]
Default: Varies

OBS PCP COMBINE INPUT TEMPLATE

Filename template used to filter input observation files used by the MET pcp combine tool.

Used by: pcp_combine_wrapper.py

Family: [filename templates]

Default: Varies

OBS PCP COMBINE OUTPUT DIR

Specify the output directory where files from the MET pcp combine tool are written.

Used by: pcp combine wrapper.py

Family: [dir]
Default: Varies

OBS PCP COMBINE OUTPUT TEMPLATE

Filename template used for writing output files from the MET pcp combine tool.

 ${\it Used~by:}\ {\it pcp_combine_wrapper.py}$

Family: [filename templates]

Default: Varies

OBS PCP COMBINE RUN

Specify whether to run pcp combine on the observation data or not.

Acceptable values: True/False

Used by: pcp combine wrapper.py

Family: [config]
Default: Varies

OBS REGRID DATA PLANE INPUT DIR

Specify the input directory for observation files used by the MET regrid data plane tool.

Used by: regrid data plane wrapper.py

Family: [dir]
Default: Varies

OBS REGRID DATA PLANE OUTPUT DIR

Specify the output directory where files are written from the MET regrid data plane tool.

Used by: regrid data plane wrapper.py

Family: [dir]
Default: Varies

OBS REGRID DATA PLANE RUN

Specify whether to run regrid_data_plane on the observation data or not.

Acceptable values: True/False

Used by: regrid data plane wrapper.py

Family: [config]
Default: Varies

OBS REGRID DATA PLANE TEMPLATE

Specify the filename template to use for observation files (input and output) used by the MET regrid_data_plane tool.

Used by: regrid data plane wrapper.py

Family: [filename templates]

Default: Varies

OBS VAR

Specify the string for the observation variable used in the analysis.

Used by: compare gridded wrapper.py

Family: [config]
Default: Varies

OBS WINDOW BEG

Corresponds to the OBS_WINDOW_BEG in the MET config file for pb2nc. Please refer to Chapter 4 of the MET User's Guide.

Used by: pb2nc wrapper.py, point stat wrapper.py

Family: [config]
Default: Varies

OBS WINDOW END

Corresponds to the OBS_WINDOW_END in the MET config file for pb2nc. Please refer to Chapter 4 of the MET User's Guide.

Used by: pb2nc wrapper.py, point stat wrapper.py

Family: [config]
Default: Varies

OB TYPE

Provide a string to represent the type of observation data used in the analysis.

Used by: compare_gridded_wrapper.py, ensemble_stat_wrapper.py, grid_stat_wrapper.py, mode_wrapper.py,
stat_analysis_wrapper.py

Family: [config]
Default: Varies

OUTPUT BASE

Provide a path to the top level output directory for METplus.

Used by: config launcher.py, pb2nc wrapper.py, point stat wrapper.py, tc pairs wrapper.py, tc stat wrapper.py

Family: [dir]
Default: Varies

OVERWRITE NC OUTPUT

Specify whether to overwrite the netCDF output or not when using the MET pb2nc tool.

Acceptable values: yes/no

Used by: pb2nc wrapper.py

Family: [config]
Default: yes

OVERWRITE TRACK

Specify whether to overwrite the track data or not.

Acceptable values: yes/no

Used by: extract_tiles_wrapper.py, feature_util.py

Family: [config]
Default: no

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PARM BASE

Specify the top level METplus parameter file directory.

Used by: config launcher.py, pb2nc wrapper.py, point stat wrapper.py, tc stat wrapper.py

Family: [dir]
Default: Varies

PB2NC CONFIG FILE

Specify the absolute path to the configuration file for the MET pb2nc tool.

 ${\it Used~by:}~{\rm pb2nc_wrapper.py}$

Family: [config]
Default: Varies

PB2NC GRID

Specify a grid to use with the MET pb2nc tool.

Used by: pb2nc wrapper.py

Family: [config]

PB2NC MESSAGE TYPE

Specify which PREPBUFR (PB) message types to convert using the MET pb2nc tool.

Used by: pb2nc_wrapper.py

Family: [config]
Default: Varies

PB2NC OUTPUT DIR

Specify the directory where files will be written from the MET pb2nc tool.

Used by: pb2nc wrapper.py

Family: [dir]
Default: Varies

PB2NC POLY

Specify a polygon to be used with the MET pb2nc tool.

Used by: pb2nc_wrapper.py

Family: [config]
Default: Varies

PB2NC STATION ID

Specify the ID of the station to use with the MET pb2nc tool.

Used by: pb2nc wrapper.py

Family: [config]
Default: Varies

PCP COMBINE METHOD

Specify the method to be used with the MET pcp combine tool.

 ${\it Used~by:}\ {\it pcp_combine_wrapper.py}$

Family: [config]
Default: Varies

${\bf PLOTTING_OUT_DIR}$

Specify the output directory where plots will be saved.

Used by: make plots wrapper.py

Family: [dir]
Default: Varies

PLOTTING SCRIPTS DIR

Specify the directory where the plotting scripts are located.

Used by: make_plots_wrapper.py

Family: [dir]
Default: Varies

PLOT CONFIG OPTS

Specify plot configuration options for the TC Matched Pairs plotting tool.

Used by: tcmpr_plotter_wrapper.py

Family: [config]
Default: Varies

PLOT STATS LIST

Specify which statistics should be plotted in a comma separated list, e.g.:

acc, bias, rmse

Used by: make plots wrapper.py

Family: [config]
Default: Varies

PLOT TYPES

Specify what plot types are desired for the TC Matched Pairs plotting tool.

Used by: tcmpr plotter wrapper.py

Family: [config]
Default: Varies

POINT STAT CONFIG FILE

Specify the absolute path to the configuration file to be used with the MET point stat tool.

Used by: point stat wrapper.py

Family: [config]
Default: Varies

POINT STAT GRID

Specify the grid to use with the MET point_stat tool.

Used by: point stat wrapper.py

POINT STAT MESSAGE TYPE

Specify which PREPBUFR message types to process with the MET point stat tool.

Used by: point_stat_wrapper.py

Family: [config]
Default: Varies

POINT STAT OUTPUT DIR

Specify the directory where output files from the MET point stat tool are written.

Used by: point_stat_wrapper.py

Family: [dir]
Default: Varies

POINT STAT POLY

Specify a polygon to use with the MET point_stat tool.

Used by: point_stat_wrapper.py

Family: [config]
Default: Varies

POINT STAT STATION ID

Specify the ID of a specific station to use with the MET point stat tool.

Used by: point stat wrapper.py

Family: [config]
Default: Varies

PREFIX

This corresponds to the optional -prefix flag of the plot_TCMPR.R script (which is wrapped by tcmpr_plotter_wrapper.py). This is the output file name prefix.

 ${\it Used~by:}\ {\it tcmpr_plotter_wrapper.py}$

Family: [config]
Default: Varies

PREPBUFR DATA DIR

Specify the directory where the PREPBUFR data are located for the MET pb2nc tool.

Used by: pb2nc_wrapper.py

Family: [dir]
Default: Varies

PREPBUFR DIR REGEX

Regular expression to use when searching for PREPBUFR data.

Used by: pb2nc_wrapper.py
Family: [regex pattern]

Default: Varies

PREPBUFR FILE REGEX

Regular expression to use when searching for PREPBUFR files.

Used by: pb2nc_wrapper.py
Family: [regex_pattern]

Default: Varies

PREPBUFR MODEL DIR NAME

Specify the name of the model being used with the MET pb2nc tool.

Used by: pb2nc_wrapper.py

Family: [config]
Default: Varies

PROCESS LIST

Specify the list of processes for METplus to perform, in a comma separated list.

Used by: master metplus.py

Family: [config]
Default: Varies

PROJ DIR

A directory for generic use. The user can store input files (if INPUT_BASE is not defined), intermediate files, and any other project-related files.

Used by: pb2nc_wrapper.py, point_stat_wrapper.py, tc_stat_wrapper.py

Family: [dir]
Default: Varies

1.4.17 Q

1.4.18 R

REFERENCE TMPL

The filename template describing the observation/reference data.

Used by: tc_pairs_wrapper.py
Family: [filename templates]

REGION LIST

A list of the regions of interest.

Used by: make plots wrapper.py, stat analysis wrapper.py

Family: [config]
Default: Varies

REGRID TO GRID

If supported, provide the output grid that is desired from the MET tool being used in the analysis.

Used by: make plots wrapper.py, point stat wrapper.py

Family: [config]
Default: Varies

REGRID USING MET TOOL

Specify whether to regrid using the MET regrid data plane tool or not.

Acceptable values: yes/no

Used by: feature_util.py, met_util.py, series_by_init_wrapper.py, series_by_lead_wrapper.py

Family: [config]
Default: yes

RM EXE

Specify the path to the Linux "rm" executable.

Used by: pb2nc wrapper.py, point stat wrapper.py, series by lead wrapper.py

Family: [exe]
Default: /path/to

RP DIFF

...Some description here...

Used by: tcmpr plotter wrapper.py

Family: [config]
Default: Varies

1.4.19 S

Corresponds to the optional -save flag in plot_TCMPR.R (which is wrapped by tcmpr_plotter_wrapper.py). This is a yes/no value to indicate whether to save the image (yes).

Used by: tcmpr plotter wrapper.py

Family: [config]
Default: Varies

SAVE DATA

Corresponds to the optional -save_data flag in plot_TCMPR.R (which is wrapped by tcmpr_plotter_wrapper.py). Indicates whether to save the filtered track data to a file instead of deleting it.

Used by: tcmpr_plotter_wrapper.py

Family: [config]
Default: Varies

SCATTER X

Corresponds to the optional -scatter_x flag in plot_TCMPR.R (which is wrapped by tcmpr_plotter_wrapper.py). This is a comma-separated list of x-axis variable columns to plot.

Used by: tcmpr_plotter_wrapper.py

Family: [config]
Default: Varies

SCATTER Y

Corresponds to the optional -scatter_y flag in plot_TCMPR.R (which is wrapped by tcmpr_plotter_wrapper.py). This is a comma-separated list of y-axis variable columns to plot.

Used by: tcmpr plotter wrapper.py

Family: [config]
Default: Varies

SERIES

Corresponds to the optional -series flag in plot_TCMPR.R (which is wrapped by tcmpr_plotter_wrapper.py). This is the column whose unique values define the series on the plot, optionally followed by a comma-separated list of values, including: ALL, OTHER, and colon-separated groups.

Used by: tcmpr plotter wrapper.py

Family: [config]
Default: Varies

SERIES ANALYSIS BY INIT CONFIG FILE

Specify the absolute path for the configuration file to use with the MET series_analysis tool by initialization time.

Used by: series by init wrapper.py

Family: [config]

SERIES ANALYSIS BY LEAD CONFIG FILE

Specify the absolute path for the configuration file to use with the MET series analysis tool by lead time.

Used by: series_by_lead_wrapper.py

Family: [config]
Default: Varies

SERIES ANALYSIS FILTER OPTS

Filtering options to be applied during series analysis. Filter options are performed by invoking the MET to stat tool within the METplus wrapper.

Used by: series_by_lead_wrapper.py, series_by_init_wrapper.py

Family: [config]
Default: Varies

SERIES CI

Corresponds to the optional -series_ci flag in plot_TCMPR.R (which is wrapped by tcmpr_plotter_wrapper.py). This is a list of true/false for confidence intervals. This list can be optionally followed by a comma-separated list of values, including ALL, OTHER, and colon-separated groups.

Used by: tcmpr plotter wrapper.py

Family: [config]
Default: Varies

SERIES INIT FILTERED OUT DIR

Specify the directory where filtered files will be written from the MET series_analysis tool when processing by initialization time.

Used by: series by init wrapper.py

Family: [dir]
Default: Varies

SERIES INIT OUT DIR

Specify the directory where files will be written from the MET series analysis tool when processing by initialization time.

Used by: series by init wrapper.py

Family: [dir]
Default: Varies

SERIES LEAD FILTERED OUT DIR

Specify the directory where filtered files will be written from the MET series_analysis tool when processing by lead time.

 ${\it Used~by:}\ {\it series_by_lead_wrapper.py}$

Family: [dir]
Default: Varies

SERIES LEAD OUT DIR

Specify the directory where files will be written from the MET series analysis tool when processing by lead time.

Used by: series_by_lead_wrapper.py

Family: [dir]
Default: Varies

SKILL REF

This corresponds to the optional -skill_ref flag in plot_TCMPR.R (which is wrapped by tcmpr_plotter_wrapper.py). This is the identifier for the skill score reference.

Used by: tcmpr_plotter_wrapper.py

Family: [config]
Default: Varies

START DATE

Specify the start data for the analysis time period. Format is YYYYYMMDDHH.

Used by: pb2nc wrapper.py, point stat wrapper.py

Family: [config]
Default: Varies

START HOUR

Specify the start hour for the analysis time period. Format is HH.

Used by: pb2nc wrapper.py, point stat wrapper.py

Family: [config]
Default: Varies

STAT ANALYSIS CONFIG

Specify the absolute path for the configuration file used with the MET stat analysis tool.

Used by: stat analysis wrapper.py

Family: [config]
Default: Varies

STAT ANALYSIS LOOKIN DIR

Specify the input directory where the MET stat analysis tool will find input files.

Used by: stat analysis wrapper.py

Family: [dir]

STAT ANALYSIS OUT DIR

Specify the output directory where files will be written from the MET stat analysis tool.

Used by: stat analysis wrapper.py

Family: [dir]
Default: Varies

STAT FILES INPUT DIR

Specify the directory where stat files exist that plots can be generated from.

Used by: make plots wrapper.py

Family: [dir]
Default: Varies

STAT LIST

Specify a list of statistics to be computed by the MET series analysis tool.

Used by: series_by_init_wrapper.py, series_by_lead_wrapper.py

Family: [config]
Default: Varies

STORM ID

The identifier of the storm(s) of interest.

Used by: cyclone plotter wrapper.py, met util.py, tc pairs wrapper.py, tc stat wrapper.py

Family: [config]
Default: Varies

STORM NAME

The name(s) of the storm of interest.

Used by: tc_pairs_wrapper.py, tc_stat_wrapper.py

Family: [config]
Default: Varies

SUBTITLE

The subtitle of the plot.

Used by: tcmpr plotter wrapper.py

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TCMPR DATA

Provide the input directory for the track data for the TC Matched Pairs plotting tool.

Used by: tcmpr plotter wrapper.py

Family: [dir]
Default: Varies

TCMPR PLOT OUT DIR

Provide the output directory where the TC Matched Pairs plotting tool will create files.

Used by: tcmpr_plotter_wrapper.py

Family: [dir]
Default: Varies

TC PAIRS CONFIG FILE

Provide the absolute path to the configuration file for the MET to pairs tool.

Used by: tc_pairs_wrapper.py

Family: [config]
Default: Varies

TC PAIRS DIR

Specify the directory where the MET tc_pairs tool will write files.

Used by: tc_pairs_wrapper.py

Family: [dir]
Default: Varies

TC PAIRS FORCE OVERWRITE

Specify whether to overwrite the output from the MET to pairs tool or not.

Acceptable values: yes/no

Used by: to pairs wrapper.py

Family: [config]
Default: no

TC STAT AMODEL

Specify the AMODEL for the MET to stat tool.

Used by: to stat wrapper.py

Family: [config]

TC STAT BASIN

Specify the BASIN for the MET to stat tool.

Used by: to stat wrapper.py

Family: [config]
Default: Varies

TC STAT BMODEL

Specify the BMODEL for the MET to stat tool.

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT CMD LINE JOB

Specify expression(s) that will be passed to the MET to stat tool via the command line.

Used by: to stat wrapper.py

Family: [config]
Default: Varies

TC STAT COLUMN STR NAME

Specify the string names of the columns for stratification with the MET to stat tool.

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT COLUMN STR VAL

Specify the values for the columns set via the TC_STAT_COLUMN_STR_NAME option for use with the MET tc_stat tool.

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT COLUMN THRESH NAME

Specify the string names of the columns for stratification by threshold with the MET tc_stat tool.

Used by: to stat wrapper.py

TC STAT COLUMN THRESH VAL

Specify the values used for thresholding the columns specified in the TC_STAT_COLUMN_THRESH_NAME option for use with the MET tc_stat tool.

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT CYCLONE

Specify the CYCLONE of interest for use with the MET to stat tool.

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT DESC

Specify the DESC option for use with the MET to stat tool.

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT INIT BEG

Specify the beginning initialization time for stratification when using the MET to stat tool.

Acceptable formats: YYYYMMDD_HH, YYYYMMDD_HHmmss

 $Used\ by: tc_stat_wrapper.py$

Family: [config]
Default: Varies

TC STAT INIT END

Specify the ending initialization time for stratification when using the MET to stat tool.

 $Acceptable\ formats:\ YYYYMMDD_HH,\ YYYYMMDD_HHmmss$

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT INIT EXCLUDE

Specify the initialization times to exclude when using the MET tc_stat tool, via a comma separated list e.g.:

20141220 18, 20141221 00

Acceptable formats: YYYYMMDD HH, YYYYMMDD HHmmss

Used by: to stat wrapper.py

Family: [config]
Default: Varies

TC STAT INIT HOUR

...Some description here...

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT INIT INCLUDE

Specify the initialization times to include when using the MET to stat tool, via a comma separated list e.g.:

 $20141220_00,\, 20141220_06,\, 20141220_12$

 $Acceptable\ formats:\ YYYYMMDD_HH,\ YYYYMMDD_HHmmss$

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT INIT MASK

This corresponds to the INIT_MASK keyword in the MET tc_stat config file. For more information, please refer to Chapter 20 in the MET User's Guide.

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT INIT STR NAME

This corresponds to the INIT_STR_NAME keyword in the MET tc_stat config file. Please refer to Chapter 20 in the MET User's Guide for more details.

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT INIT STR VAL

This corresponds to the INIT_STR_VAL keyword in the MET tc_stat config file. Please refer to Chapter 20 in the MET User's Guide for more information.

 ${\it Used~by:} {\it tc_stat_wrapper.py}$

Family: [config]
Default: Varies

TC STAT INPUT DIR

Specify the input directory where the MET tc_stat tool will look for files.

Used by: tc_stat_wrapper.py

Family: [dir]
Default: Varies

TC STAT JOBS LIST

Specify expressions for the MET to stat tool to execute.

 ${\it Used~by:} {\it tc_stat_wrapper.py}$

Family: [config]
Default: Varies

TC STAT LANDFALL

Specify whether only those points occurring near landfall should be retained when using the MET tc_stat tool.

Acceptable values: True/False

Used by: tc_stat_wrapper.py

Family: [config]
Default: False

TC STAT LANDFALL BEG

Specify the beginning of the landfall window for use with the MET to stat tool.

Acceptable formats: HH, HHmmss

Used by: to stat wrapper.py

Family: [config]
Default: -24

TC STAT LANDFALL END

Specify the end of the landfall window for use with the MET to stat tool.

Acceptable formats: HH, HHmmss

Used by: tc_stat_wrapper.py

TC STAT LEAD

Specify the lead times to stratify by when using the MET tc_stat tool.

Acceptable formats: HH, HHmmss

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT LEAD REQ

Specify the LEAD REQ when using the MET to stat tool.

Used by: tc stat wrapper.py

Family: [config]
Default: Varies

TC STAT MATCH POINTS

Specify whether only those points common to both the ADECK and BDECK tracks should be written out or not when using the MET tc_stat tool.

Acceptable values: True/False

Used by: to stat wrapper.py

Family: [config]
Default: false

TC STAT OUTPUT DIR

Specify the output directory where the MET to stat tool will write files.

Used by: tc_stat_wrapper.py

Family: [dir]
Default: Varies

TC STAT RUN VIA

Specify the method for running the MET to stat tool.

Acceptable values: CONFIG

If left blank (unset), to stat will run via the command line.

Used by: to stat wrapper.py

Family: [config]
Default: CONFIG

TC STAT STORM ID

Set the STORM_ID(s) of interest with the MET tc_stat tool.

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

${\tt TC_STAT_STORM\ NAME}$

Set the STORM NAME for use with the MET to stat tool.

Used by: to stat wrapper.py

Family: [config]
Default: Varies

${\tt TC_STAT_TRACK_WATCH_WARN}$

Specify which watches and warnings to stratify over when using the MET to stat tool.

Acceptable values: HUWARN, HUWATCH, TSWARN, TSWATCH, ALL

If left blank (unset), no stratification will be done.

Used by: to stat wrapper.py

Family: [config]
Default: Varies

TC STAT VALID BEG

Specify a comma separated list of beginning valid times to stratify with when using the MET to stat tool.

Acceptable formats: YYYYMMDD HH, YYYYMMDD HHmmss

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT VALID END

Specify a comma separated list of ending valid times to stratify with when using the MET tc_stat tool.

Acceptable formats: YYYYMMDD HH, YYYYMMDD HHmmss

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT VALID EXCLUDE

Specify a comma separated list of valid times to exclude from the stratification with when using the MET

tc stat tool.

Acceptable formats: YYYYMMDD_HH, YYYYMMDD_HHmmss

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT VALID HOUR

This corresponds to the VALID_HOUR keyword in the MET tc_stat config file. For more information, please refer to Chapter 20 of the MET User's Guide.

Used by: to stat wrapper.py

Family: [config]
Default: Varies

TC STAT VALID INCLUDE

Specify a comma separated list of valid times to include in the stratification with when using the MET tc stat tool.

Acceptable formats: YYYYMMDD HH, YYYYMMDD HHmmss

Used by: tc_stat_wrapper.py

Family: [config]
Default: Varies

TC STAT VALID MASK

This corresponds to the VALID_MASK in the MET tc_stat config file. Please refer to Chapter 20 of the MET User's Guide for more information.

Used by: to stat wrapper.py

Family: [config]
Default: Varies

TC STAT WATER ONLY

Specify whether to exclude points where the distance to land is ≤ 0 . If set to TRUE, once land is encountered the remainder of the forecast track is not used for the verification, even if the track moves back over water.

Acceptable values: true/false

Used by: to stat wrapper.py

TIME METHOD

Specify which time method to use with the MET pb2nc and point_stat tools.

Acceptable values: BY VALID, BY INIT

Used by: pb2nc wrapper.py, point stat wrapper.py

Family:
Default:

TIME SUMMARY BEG

Specify the starting time of the summary when using the MET pb2nc tool.

Acceptable formats: HHMMSS

Used by: pb2nc_wrapper.py

Family: [config] **Default:** 000000

TIME SUMMARY END

Specify the ending time of the summary when using the MET pb2nc tool.

Acceptable formats: HHMMSS

Used by: pb2nc wrapper.py

Family: [config]
Default: 235959

TIME SUMMARY FLAG

Specify whether to receive a time summary from the MET pb2nc tool or not.

Acceptable values: True/False

Used by: pb2nc_wrapper.py

Family: [config]
Default: False

TIME SUMMARY TYPES

Specify a comma separated list of time summary types to receive from the MET pb2nc tool.

Used by: pb2nc_wrapper.py

Family: [config]
Default: Varies

TIME SUMMARY VAR NAMES

Specify a comma separated list of time summary variable names to receive from the MET pb2nc tool.

Used by: pb2nc wrapper.py

Family: [config]
Default: Varies

TITLE

Specify a title string for the TC Matched Pairs plotting tool.

Used by: tcmpr_plotter_wrapper.py

Family: [config]
Default: Varies

TMP DIR

Specify the path to a temporary directory where the user has write permissions.

Used by: extract_tiles_wrapper.py, pb2nc_wrapper.py, point_stat_wrapper.py, series_by_init_wrapper.py, series_by_lead_wrapper.py, tc_stat_wrapper.py

Family: [dir]
Default: Varies

TOP LEVEL DIRS

Specify whether to use top-level directories when using the MET to pairs utility or not.

Acceptable values: yes/no

 ${\it Used~by:} {\it tc_pairs_wrapper.py}$

Family: [config]
Default: no

TRACK DATA DIR

Specify the directory where track data are located for use with the MET tc_pairs tool.

Used by: to pairs wrapper.py

Family: [dir]
Default: Varies

TRACK DATA MOD FORCE OVERWRITE

Specify whether to force an overwrite of the track data or not.

Acceptable values: yes/no

Used by: tc_pairs_wrapper.py

Family: [config]
Default: no

TRACK DATA SUBDIR MOD

Specify the sub-directory where modified track data files are stored for use with the MET to pairs tool.

Used by: tc_pairs_wrapper.py

Family: [dir]
Default: Varies

TRACK TYPE

Specify the track type to filter by when using the MET to pairs tool.

Used by: tc_pairs_wrapper.py

Family: [config]
Default: Varies

TR EXE

Specify the path to the Linux "tr" executable.

Used by: pb2nc_wrapper.py, point_stat_wrapper.py

Family: [exe]
Default: /path/to

1.4.21 U

1.4.22 V

VALID BEG

Specify a begin time for valid times for use in the analysis.

Acceptable formats: YYYYMM[DD[HH]]

Used by: command_builder.py, make_plots_wrapper.py, master_metplus.py, stat_analysis_wrapper.py, tc_pairs_wrapper.py, tc_stat_wrapper.py

Family: [config]
Default: Varies

VALID BEG HOUR

Specify a beginning hour for valid times for use in the analysis.

Acceptable formats: HH

Used by: make plots wrapper.py, stat analysis wrapper.py

Family: [config]

VALID END

Specify an end time for valid times for use in the analysis.

Acceptable formats: controlled via VALID TIME FMT

Used by: command_builder.py, make_plots_wrapper.py, master_metplus.py, stat_analysis_wrapper.py,

tc_pairs_wrapper.py, tc_stat_wrapper.py

Family: [config]
Default: Varies

VALID END HOUR

Specify an end hour for valid times for use in the analysis.

Acceptable formats: controlled via VALID TIME FMT

Used by: make plots wrapper.py, stat analysis wrapper.py

Family: [config]
Default: Varies

VALID INCREMENT

Specify the time increment for valid times for use in the analysis.

Acceptable formats: seconds

Used by: command builder.py, make plots wrapper.py, master metplus.py, stat analysis wrapper.py,

tc_stat_wrapper.py
Family: [config]

Default: Varies

VALID TIME FMT

Specify a strftime formatting string for use with VALID BEG and VALID END.

Used by: command_builder.py, master_metplus.py

Family: [config]
Default: Varies

VAR LIST

Specify a comma separated list of variables to be used in the analysis.

Used by: feature util.py, pb2nc wrapper.py, series by init wrapper.py, series by lead wrapper.py

VERIFICATION GRID

Specify the absolute path to a file containing information about the desired output grid from the MET regrid_data_plane tool.

Used by: regrid data plane wrapper.py

Family: [config]
Default: Varies

VERIF CASE

Specify a string identifying the verification case being performed.

Used by: make plots wrapper.py, stat analysis wrapper.py

Family: [config]
Default: Varies

VERIF TYPE

Specify a string describing the type of verification being performed.

Used by: make_plots_wrapper.py, stat_analysis_wrapper.py

Family: [config]
Default: Varies

VERTICAL LOCATION

Specify the vertical location desired when using the MET pb2nc tool.

Used by: pb2nc wrapper.py

Family: [config]
Default: Varies

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WAVE NUM BEG LIST

Specify a comma separated list of desired beginning wave numbers.

Used by: make plots wrapper.py, stat analysis wrapper.py

Family: [config]
Default: Varies

WAVE NUM END LIST

Specify a comma separated list of desired ending wave numbers.

Used by: make plots wrapper.py, stat analysis wrapper.py

Family: [config]

WGRIB2

Specify the path to the "wgrib2" executable.

Used by: feature util.py, pb2nc wrapper.py, point stat wrapper.py

Family: [exe]
Default: /path/to

1.4.24 X

XLAB

Specify the x-axis label when using the TC Matched Pairs plotting tool.

Used by: tcmpr plotter wrapper.py

Family: [config]
Default: Varies

XLIM

Specify the x-axis limit when using the TC Matched Pairs plotting tool.

Used by: tcmpr_plotter_wrapper.py

Family: [config]
Default: Varies

1.4.25 Y

YLAB

Specify the y-axis label when using the TC Matched Pairs plotting tool.

Used by: tcmpr_plotter_wrapper.py

Family: [config]
Default: Varies

YLIM

Specify the y-axis limit when using the TC Matched Pairs plotting tool.

Used by: tcmpr plotter wrapper.py

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