

# 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\_data.conf 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 tcmpr\_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:
  - \* METPLUS\_BASE to the path to where you installed METplus with 'ush': METplus\_INSTALL/all\_users/METplus
  - \* PARM\_BASE to the path to where you installed METplus, appended 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/tcmpr\_mean\_median.conf
  - \* Verify that PROCESS\_LIST is set to TcPairs, TCMRPlotter. This instructs METplus to run the TcPairs wrapper first (TC-Pairs) followed by the TCMR plotter wrapper (plot\_TCMR.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 RSCRIPTS\_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:
      - master\_metplus.py -c use\_cases/track\_and\_intensity/track\_and\_intensity.conf -c use\_cases/track\_and\_intensity/examples/tcmpr\_mean\_median.conf
    - \* When complete, you will have a log file in the output directory you specified, and under the tc\_pairs directory you will see .tctst 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:

```
$ cat METplus/parm/metplus_config/*.conf METplus/parm/use_cases/**/*.conf METplus/parm/use_cases/**/*.conf
> allopts.conf
$ grep = allopts.conf | grep -v \# | sort | 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: tc\_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: tc\_pairs\_wrapper.py

Family: [dir]

Default: Varies

---

AMODEL

The model name of the ADeck model data

Used by: cyclone\_plotter\_wrapper.py, tc\_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:

---

#### ONLY\_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:

---

#### ONLY\_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:

---

#### ONLY\_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  
CP = Central Northern Pacific  
EP = Eastern Northern Pacific  
AL = Northern Atlantic  
SL = Southern Atlantic

Used by: cyclone\_plotter\_wrapper.py, tc\_pairs\_wrapper.py, tc\_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: tc\_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: tc\_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: tc\_pairs\_wrapper.py, tc\_stat\_wrapper.py

Family: [config]

Default: Varies

---

#### 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

Family: [config]

Default: Varies

---

#### 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.

Used by: `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

Family: [config]

Default: Varies

---

**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

Family: [config]

Default: Varies

---

#### 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.

Used by: 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]

Default: 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]`

Default: Varies

---

#### 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

---

#### 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.

Used by: series\_by\_init\_wrapper.py, 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  
Family: [config]  
Default: Varies

---

**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:

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\_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\_TCMR.R script which is wrapped by tcmr\_plotter\_wrapper.py. This is a list of filtering options for the tc\_stat tool.

Used by: tcmr\_plotter\_wrapper.py

Family: [config]

Default: Varies

---

#### FILTERED\_TCST\_DATA\_FILE

Corresponds to the optional -tst argument to the plot\_TCMR.R script which is wrapped by tcmr\_plotter\_wrapper.py. This is a tst data file to be used instead of running the tc\_stat tool. Indicate a full path to the data file.

Used by: tcmr\_plotter\_wrapper.py

Family: [config]

Default: Varies

---

#### FOOTNOTE\_FLAG

This corresponds to the optional -footnote flag in the plot\_TCMR.R script which is wrapped by tcmr\_plotter\_wrapper.py. According to the plot\_TCMR.R usage, this flag is used to disable footnote (date).

Used by: tcmr\_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

Family: [config]

Default: Varies

### 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`

Family: `[config]`

Default: Varies

#### 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`.

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\_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`, `tc_pairs_wrapper.py`, `tc_stat_wrapper.py`

Family: [config]

Default: Varies

---

**INIT\_INCLUDE**

Specify which forecast initializations to include in the analysis.

Used by: `tc_pairs_wrapper.py`, `tc_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]

Default: Varies

---

## 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-separated 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 included 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]`

Default: Varies

---

## 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

DEBUG

INFO

WARNING

ERROR

CRITICAL

Used by: `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. If set to false, the processes will loop by valid time.

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 order method for METplus. Valid options are “times” or “processes”. If set to “times” it will loop over each process for each time, then increment the time. If set to “processes” it will loop over every time for a given process, the increment to the next process.

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, point\_stat\_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: tc\_pairs\_wrapper.py

Family: [config]

Default: Varies

---

**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.

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

#### 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]`

Default: Varies

---

**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]

Default: Varies

---

#### 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

Family: [config]

Default: Varies

---

#### 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.

Used by: `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

## 1.4.16 P

---

## 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.

Used by: 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]

Default: Varies

---

#### 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. Valid options are “SUM”, “SUBTRACT”, and “ADD.”

Used by: pcp\_combine\_wrapper.py

Family: [config]

Default: ADD

---

#### 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

Family: [config]

Default: Varies

---

**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.

Used by: 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]

Default: Varies

---

## 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

This corresponds to the optional `-rp_diff` flag of the `plot_TCMPR.R` script (which is wrapped by `tcmpr_plotter_wrapper.py`). This is a comma-separated list of thresholds to specify meaningful differences for the relative performance plot.

Used by: `tcmpr_plotter_wrapper.py`

Family: `[config]`

Default: Varies

#### 1.4.19 S

---

##### SAVE

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]`

Default: `Varies`

---

#### `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 `tc_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.

Used by: `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 `YYYYMMDDHH`.

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]

Default: Varies

---

#### 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

Family: [config]

Default: Varies

---

**1.4.20 T****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 tc\_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 `tc_pairs` tool or not.

Acceptable values: yes/no

Used by: `tc_pairs_wrapper.py`

Family: [config]

Default: no

---

**TC\_STAT\_AMODEL**

Specify the AMODEL for the MET `tc_stat` tool.

Used by: `tc_stat_wrapper.py`

Family: [config]

Default: Varies

---

**TC\_STAT\_BASIN**

Specify the BASIN for the MET `tc_stat` tool.

Used by: `tc_stat_wrapper.py`

Family: [config]

Default: Varies

---

**TC\_STAT\_BMODEL**

Specify the BMODEL for the MET `tc_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 `tc_stat` tool via the command line.

Used by: `tc_stat_wrapper.py`

Family: [config]

Default: Varies

---

**TC\_STAT\_COLUMN\_STR\_NAME**

Specify the string names of the columns for stratification with the MET `tc_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: tc\_stat\_wrapper.py

Family: [config]

Default: Varies

---

**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 tc\_stat tool.

Used by: tc\_stat\_wrapper.py

Family: [config]

Default: Varies

---

**TC\_STAT\_DESC**

Specify the DESC option for use with the MET tc\_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 tc\_stat tool.

Acceptable formats: YYYYMMDD\_HH, YYYYMMDD\_HHmms

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 `tc_stat` tool.

Acceptable formats: `YYYYMMDD_HH`, `YYYYMMDD_HH:mm:ss`

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_HH:mm:ss`

Used by: `tc_stat_wrapper.py`

Family: `[config]`

Default: Varies

---

**TC\_STAT\_INIT\_HOUR**

The beginning hour (HH) of the initialization time of interest.

Used by: `tc_stat_wrapper.py`

Family: `[config]`

Default: Varies

---

**TC\_STAT\_INIT\_INCLUDE**

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

`20141220_00`, `20141220_06`, `20141220_12`

Acceptable formats: `YYYYMMDD_HH`, `YYYYMMDD_HH:mm:ss`

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.

Used by: 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 tc\_stat tool to execute.

Used by: 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 tc\_stat tool.

Acceptable formats: HH, HHmmss

Used by: tc\_stat\_wrapper.py

Family: [config]

Default: -24

---

TC\_STAT\_LANDFALL\_END

Specify the end of the landfall window for use with the MET tc\_stat tool.

Acceptable formats: HH, HHmmss

Used by: tc\_stat\_wrapper.py

Family: [config]

Default: Varies

---

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 tc\_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: tc\_stat\_wrapper.py

Family: [config]

Default: false

---

TC\_STAT\_OUTPUT\_DIR

Specify the output directory where the MET tc\_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 `tc_stat` tool.

Acceptable values: `CONFIG`

If left blank (unset), `tc_stat` will run via the command line.

Used by: `tc_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`

---

`TC_STAT_STORM_NAME`

Set the `STORM_NAME` for use with the MET `tc_stat` tool.

Used by: `tc_stat_wrapper.py`

Family: `[config]`

Default: `Varies`

---

`TC_STAT_TRACK_WATCH_WARN`

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

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

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

Used by: `tc_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 `tc_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: `tc_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: `tc_stat_wrapper.py`

Family: `[config]`

Default: `Varies`

---

#### TC\_STAT\_WATER\_ONLY

Specify whether to exclude points where the distance to land is  $\leq 0$ . 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: `tc_stat_wrapper.py`

Family: `[config]`

Default: `Varies`

---

#### 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 tc\_pairs utility or not.

Acceptable values: yes/no

Used by: 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: `tc_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 `tc_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 `tc_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]

Default: Varies

---

#### 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

Family: [config]

Default: Varies

---

#### 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

## 1.4.23 W

---

**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]`

Default: `Varies`

---

**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`

Family: `[config]`

Default: `Varies`

## 1.4.26 Z