

Verify Pairs Ingestor User's Manual

1.0 Overview

The Verify Pairs Ingestor transfers forecast-observed data pairs from the ob3-r24 and earlier verification database to the new archive database vfpairs table. This user's manual provides instructions for how to run the Verify Pairs Ingestor.

This software makes use of the pairs data files, generated by the Verify program (ob3-r24 and earlier). For more information on the verify program, see the National Weather Service Verification Software User's Manual, at the following url

<http://www.nws.noaa.gov/ohd/hrl/verification/verification.htm>.

2.0 Execution

To execute the Verify Pairs Ingestor, enter:

```
cd $(get_apps_defaults vsys_scripts)
ingestpairs <file1> <file2> ... <filen>
```

where <file1>, <file2>, ..., <filen> are properly formatted pairs files generated by the Verify program for release ob3-r24 or earlier. The file names can be specified in either relative to the current directory (if they begins with a '.' or '/') or relative to the directory corresponding to apps-defaults token "vsys_output" and subdirectory corresponding to environment variable "LOGNAME".

NOTE: The user must properly setup the vfyruninfo table within the archive database using the Vfyruninfo Editor before executing the Verify Pairs Ingestor. See Section 4.0.

3.0 Recommended Apps-defaults Tokens

In order to properly access the vfpairs table within the archive database, the user's environment must be setup to read from the archive database. This includes setting the apps-defaults token "adb_name" to be the name for the archive database, and making sure the INFORMIXSERVER environment variable is set to the correct server. Also, the apps-defaults token "sys_java_dir" must be set appropriately. This should be part of the national apps-defaults file.

Other apps-defaults tokens that are used by the Verify Pairs Ingestor are as follows:

- vsys_output : \$(vsys_dir)/output

Upon execution, if apps-defaults token "vsys_output" is undefined, it is assumed that all pairs files are located relative to the current working directory. Otherwise, it is assumed that all pairs

files are in a subdirectory of the "vsys_output" directory given by the environment variable "LOGNAME". If no such subdirectory exists, then it is assumed that all pairs files are located relative to the "vsys_output" directory, and if that directory does not exist, then they are assumed to be located relative to the current working directory.

4.0 Instructions for Transferring Pairs Data

To transfer forecast-observed data pairs from the ob3-r24 and earlier verification database to the new archive database vfpairs table, do the following:

1. Execute the old version of verify in order to construct the forecast-observed data pairs that you wish to transfer. For example, in order to transfer data pairs for the month of October in 1999, then you need to acquire those pairs either from generating them or from a previous run of the ob3-r24 and earlier verify program. The pairs are stored in an ASCII text pairs file, one data pair per line.
2. Transfer the pairs file to the archive machine.
3. On the archive machine, run the ingestpairs script (see Section 2) passing in the pairs data file as the first argument.

After executing Step 3, the pairs in the ASCII text pairs file from Step 1 are inserted into the vfpairs table. Output is then sent to the screen listing the number of "good records", "invalid records", "bad format records", and "commented lines". Only good data pairs, or records, are inserted into the vfpairs table. For a forecast-observed data pair to be considered "good", the following requirement must be met:

- A record must exist within the vfyruninfo table that has the data pair's location id, physical element, forecast type source (or "__" as the forecast type source), and extremum (or "_" as the extremum).

The location id is trimmed to remove any white space before checking. If a line within the pairs file is of an improper format (i.e. wrong number of arguments or badly formatted arguments), then the line is considered a "bad format record". If a line is of proper format but does not satisfy the condition for "good" stated above, then it is considered an "invalid record". If a line of text within the pairs file begins with a '#', then that line is considered a "commented line".

NOTE: The Verify program (ob3-r24 and earlier) generates two uncommented lines near the top of the file, one that begins " LID -d-ts-e- ..." and one that is all dashes, "-----...". These two lines will always show up as "bad format records", so you can expect at least two such records per pairs file.