Appendix E

KBOGUS format

The KBOGUS file is used to replace specific observations in a station report. It is accessed by RAWINS as FORTRAN unit 12.

The KBOGUS record format is

```
40    FORMAT(I4, I2, 1X, A8, 1X, F7.1, 1X, F7.1, 4(1X, F7.1), 2X, I2, 4X, I8)
```

Each record describes corrections to be made to a single station at a single level. More than one variable may be modified by a KBOGUS record, if desired.

Following is an example of four records of a KBOGUS file. The titles and dashed lines are for clarification purposes only.

```
--------------------------------------------------------------------------------
N  TY    STA      PRES      HT      TEMP      RH       DIR      SPD      L       DATE
--------------------------------------------------------------------------------
1   2  72270  1  1019.7 88888.0 99999.9 88888.0 88888.0 88888.0   1    87010412
1   2  72564  1 88888.0 88888.0 88888.0 88888.0    50.0     3.6   1    87010412
1   2  ZFFC   1 88888.0 88888.0    16.0 88888.0 88888.0 88888.0   1    87010412
1   1  72220  1 88888.0 88888.0 88888.0 88888.0   195.0    37.0   4    87010412
--------------------------------------------------------------------------------
```

Description of KBOGUS file variables

N: Number of observations for the given date, variable and level.

TY: Type of level:
- 1: mandatory level
- 2: surface
- -1: nonmandatory level

STA: Five digit station identifier followed by a flag (1 or 2) indicating whether one or two surface observations from a single station (*i.e.*, surface station report; surface observation from an upper-air station) were both used in a surface analysis.

PRES: Bogus sea-level pressure (mb) to insert. Two other options are available: to retain the original value, PRES = 88888.0; to delete the original value without inserting a bogus value, PRES = 99999.0.

HT: Bogus height (m). Again, options 88888.0 (to retain original value) and 99999.0 (to delete original value) may be used.

TEMP: Bogus temperature (°C). 88888.0 (retain); 99999.0 (delete).

RH: Bogus relative humidity (%). 88888.0 (retain); 99999.0 (delete).

DIR: Bogus wind direction (degrees). 88888.0 (retain); 99999.0 (delete).

SPD: Bogus wind speed (m s^{-1}). 88888.0 (retain); 99999.0 (delete).

L: Level: 1 = surface, 2 = 1000 mb, 3 = 850 mb, etc.; the highest values of L refer to nonmandatory levels.

DATE: Eight digit date/time identifier, in the format YYMMDDHH.