

APPENDIX C TIME SERIES RECORD DEFINITION

1. SHEF Format

For time series data the archive data record will be written in the SHEF format. It will be ASCII characters with a maximum column width of 80 characters. Optional formats available in SHEF are restricted as defined below. Each new archive data record will be surrounded by a starting and ending string to ensure its uniqueness. An example of time series archive records is provided below.

a. Start line. The initial line will consist of the time series index line defined above with the begin key of “::B-TS:”. The actual archive data will follow on a new line one or more lines below the starting string.

b. Body.

(1) Format specifier. Data with evenly spaced time intervals will be output using the SHEF “.E” format with the “.En” continuation specifier. Data with unevenly spaced time intervals will be output using the SHEF .A format with the .An continuation specifier.

(2) The station ID will be locally defined. To avoid ambiguity with other Corps office and agency stations, it is recommended the ID contain five to eight characters formed as xxxiiii where xxx is the three-character Corps office symbol and iiii is a three- to five-character station mnemonic.

(3) The full date code (yymmdd) is required.

(4) The time zone code is mandatory. It must be either Z for Coordinated Universal Time (UTC) or standard time for a designated time zone. Local time or Daylight Savings Time are not permitted.

(5) Relative time codes are not permitted.

(6) Each “.A” format will contain data for only one parameter. Continuation lines should be used to avoid repeating the station information.

c. End line. The data record will be terminated by the end string “::E-TS:” followed by the same information on the start line.

Example #1: River stages below Black Butte Reservoir, Sacramento District, with unevenly spaced time intervals.

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::B-TS: ID=SPKBLB,PARM=HG,NAME=Black Butte Reservoir,ST=CA
.A SPKBLB 930301 PS
.A1 DY9303010805/HGI 5.75
.A2 DY9303031230/HGI 6.02
.A3 DY9303031800/HGI 6.06
.A4 DY9303040820/HGI 6.22
.A5 DY9303081215/HGI 5.04
. . . .
. . . .
::E-TS: ID=SPKBLB,PARM=HG,NAME=Black Butte Reservoir,ST=CA
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Example #2: Daily precipitation at Huntington, WV, in Huntington District with evenly spaced time intervals.

::B-TS: ID=ORHHNTW,PARM=PP,NAME=Huntington,ST=WV

.E ORHHNTW 940101 Z DY9401012400/PPD/DID01

.E1 0.02/0.27/1.03/0.00/0.00/0.00/0.22/0.59/0.00/0.00

.E2 0.00/0.00/0.00/2.21/1.04/0.00/4.88/1.37/0.40/0.05

. . . .

. . . .

::E-TS: ID=ORHHNTW,PARM=PP,NAME=Huntington,ST=WV