

IX.3.4B-RPDRRS SUBROUTINE RPDRRS

Description

Subroutine RPDRRS reads river, reservoir or snow (RRS) data from the Preprocessor Data Base for one station for a specified data type and time period.

Calling Sequence

CALL RPDRRS (STAID, IDTYPE, DTYPE, NVLPOB, FHOURL, LHOURL, LOBS, OBS, NUMOBS, LMIN, MIN, LWBUFF, WBUFF, LSTHR, ISTAT)

Argument List

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
STAID	Input	A8 or I*4	1	Station identifier Station number
IDTYPE	Input	I*4	1	Station identifier/number indicator: 0 = STAID is identifier 1 = STAID is number
DTYPE	Input	A4	1	Data type code <u>1</u> /
NVLPOB	Output	I*4	1	The number of values per observation for this data type (either 2 or 3)
FHOURL	Both	I*4	1	Julian hour in Z time of first hour of data requested/returned
LHOURL	Both	I*4	1	Julian hour in Z time of last hour of data requested/returned
LOBS	Input	I*4	1	Length of array OBS
OBS	Output	R*4	LOBS	Array containing the following values for each observation: <u>2</u> / <u>3</u> / o observation time; Julian hours since 0Z on January 1, 1900 o observation value o time period of observation if mean data; units of HR
NUMOBS	Output	I*4	1	Number of observations returned

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
				in ARRAY
LMIN	Input	I*4	1	Length of array MIN
MIN	Output	I*4	LMIN	Array containing the minutes associated with each observation for an instantaneous data type <u>4/</u>
LWBUFF	Input	I*4	1	Length of array WBUFF
WBUFF	Input	I*4 or R*4	LWBUFF	Work array
LSTHR	Output	I*4	1	Julian hour of the last observed data value on file for this station and data type
ISTAT	Output	I*4	1	Status code: 0 = okay 1 = OBS too small to hold all available observations in requested period; LOBS values filled 2 = STAID not found 3 = data type not found 4 = no observations found within the period FHOURL to LHOURL requested 5 = WBUFF too small; no data read 6 = LSTHR too small; no data read 7 = file read/write error

Notes:

- 1/ Valid types are given in VI.3.3B-DEFINE-STATION [[Hyperlink](#)].
- 2/ Data are returned in chronological order based on observation time. If there is more than one observation for mean data for a given time then the data for that observation time are ordered from the largest to the smallest time period.
- 3/ Observation time and time period are stored as integer bytes.
- 4/ Values in array MIN range from 0 through 59 for an instantaneous RRS data type. This array is undefined for a period average RRS data type. Values of MIN indicate the following:

<u>Value</u>	<u>Indicates</u>
0	observation was made exactly on the hour
1-30	observation was made after the hour
31-59	observation was made before the hour