IX.3.4B-SYSTEM-WPDSS   SUBROUTINE WPDSS

Description

Subroutine WPDSS writes Stranger Station precipitation for one report.

Calling Sequence

CALL WPDSS (JDAY,IENDHR,RLATLN,VAL,IUNIT,IREV,ISTAT)

Argument List

Argument	Input/ Output	Type	Dimension	Description
JDAY	Input	I*4	1	Julian day of stranger report 2/
IENDHR	Input	I*4	1	Ending hour of the stranger report within the hydrologic day (range of 0 to 23 hours)
RLATLN	Input	R*4	2	Latitude/longitude of stranger report (decimal degrees)
VAL	Input	R*4	1	Precipitation value 3/
IUNIT	Input	A4	1	Units of precipitation value 1/

IREV	Input	I*4	1	Revision indicator: 4/
				  0 = non-revision write
				  1 = revision write

ISTAT	Output	I*4	1	Status code:
				  0 = okay
				  1 = JDAY not continuous with dates of other MAP preprocessor files - value not written
				  2 = stranger station data not defined in PPDB
				  3 = invalid units conversion
				  4 = file read/write error
				 20+ = invalid revision flag
				 30+ = invalid value

Notes:

1/ Value is converted to PPDB precipitation units before being written
   to the file.

2/ Value specified is the Julian day for the end of the 24 hour period
   in Z time for which data are input.

3/ The precipitation value (VAL) and ending hour (IENDHR) is encoded
   into a single I*2 word before being stored. VAL is first converted
   into units of hundreds of an inch (call the converted value PP).
   Then the value stored in the PPDB (IVAL) is computed as:

   IVAL = ((PP - 3000) * 10) - (IENDHR/3)

   The missing data symbol for PPSR data on the PPDB is -9.

4/ For data type PPSR the rules for writing data to the PPDB are:

   o If the revision switch is off the data value is written
      only if:

      o it is a new data value which is either for a day already
         on the file or the day after the latest day currently on
         the file, or
      o the ending hour of the value being written is after the
         ending hour of the value currently on the file.

   o If the revision switch is on the data value is always written
      except if:

      o it is for a new day which is more that one day after the
         latest day currently on the file, or
      o the ending hour of the value being written is prior to
         the ending hour of the value currently on the file.

   A new day of data can be created with the revision switch on if
   it is the day after the latest day currently on the file.