

IX.3.4B-SYSTEM-WPDC SUBROUTINE WPDC

Description

Subroutine WPDC changes information for a station in the Preprocessor Data Base.

Information can be changed includes:

- o station number
- o data types - can be added and/or deleted
- o correction factors
- o PPPDB pointers

Calling Sequence

CALL WPDC (ISTAID, NUMSTA, NDLYTP, IDLYTP, IPPGEN, IPPPTR, IPPCHR, MDRBOX, IPCPCR, IPPMMT, T MPCOR, NRRSTP, IRRSTP, NVLPOB, NUMOBS, MNDAYS, IPNTRS, LADDTP, IADDTP, NADDTP, LDELTP, IDELTP, NDELTP, ISTAT)

Argument List

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
ISTAID	Input	A8	1	Station identifier
NUMSTA	Input	I*4	1	Station number: 0 = not defined
NDLYTP	Input	I*4	1	Number of daily types
IDLYTP	Input	A4	NDLYTP	Daily data type codes (see note 1 for WPDCR)
IPPGEN	Input	I*4	1	Pointer to station general parameters in the Preprocessor Parametric Data Base (PPPDB)
IPPPTR	Input	I*4	3	Pointers to precipitation, temperature and PE parameters in the PPPDB: 0 = not defined
IPPCHR	Input	I*4	1	Pointer to precipitation station characteristics in the PPPDB: 0 = not a precipitation station or not using characteristics
MDRBOX	Input	I*4	1	MDR box number (undefined if not a precipitation station)

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
IPCPCR	Input	I*4	1	Precipitation correction factors and processing code (undefined if not a precipitation station - see note 4/ for WPDCR)
IPPMMT	Input	I*4	1	Pointer to monthly maximum and minimum temperature data in the PPPDB: 0 = not a temperature station
TMPCOR	Input	R*4	2	Maximum and minimum temperature correction factors in units of DEGF
NRRSTP	Input	I*4	1	Number of RRS data types
IRRSTP	Input	A4	NRRSTP	RRS data type codes (see note 2 for WPDCR)
NVLPOB	Input	I*4	NRRSTP	Number of values per observation (see note 2 for WPDCR)
NUMOBS	Input	I*4	NRRSTP	Typical number of observations to be held in the PPDB
MNDAYS	Input	I*4	NRRSTP	Minimum days of data to be held in the PPDB
IPNTRS	Output	I*4	NDLYTP + NRRSTP	Array location of the beginning of pointer information in the PPDB for data types defined: >0 = array location 0 = not enough room in data file for invalid combination of data types -2 = an invalid daily data type code was entered in IDLYTP -1 = valid RRS data types -2 = invalid RRS data type codes entered in IRRSTP
LADDTP	Input	I*4	1	Length of array IADDTP
IADDTP	Output	A4	LADDTP	List of data types added for the station, both daily and RRS
NADDTP	Output	I*4	1	Number of data types added
LDELTP	Input	I*4	1	Length of array IDELTP
IDELTP	Output	A4	LDELTP	Data types deleted

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
NDELTP	Output	I*4	1	Number of data types deleted
ISTAT	Output	I*4	1	Status code: 0 = okay 1 = ISTAID not found 2 = attempt to change NUMSTA to a number already in use - no changes made 3 = cannot add all new data types or change length of old RRS types because files are full - no changes made 4 = one or more data types invalid - station is changed for all valid types 5 = all data types are invalid - no changes made 6 = invalid combination of data types asked to be defined (see note 3/ for WPDCR) - no changes made 7 = system error accessing file 8 = error deleting data types 9 = combination of errors 3 and 4 10 = combination of errors 3 and 6 11 = combination of errors 4 and 6 12 = combination of errors 3, 4 and 6 13 = read or write error 14 = array IADDTP too small for number of types being added 15 = not enough unused Station Information File records 16 = no new station information different than old 17 = size of SIF array too small 18 = size of array to store indicator if data type has been added is too small 19 = INTEGER*4 value cannot be stored as an INTEGER*2