IX.3.2C-SYSTEM-SNTWKX COMMON BLOCK SNTWKX

Purpose

Common block SNTWKX contains data needed to do network computations.

Listing

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COMMON /SNTWKX/  INWFIL,INWTYP,MAXSNW,INAUTO,FLATMX,FLATMN,
                 PP24NW(maxsnw),PPVRNW(maxsnw),
                 TA24NW(maxsnw),
                 EA24NW(maxsnw),
                 STATNW(maxsnw),STIDNW(2,maxsnw),
                 CORDNW(2,maxsnw),WORKNW(maxsnw),
                 SFLGNW(maxsnw),
                 PCHRNW(maxsnw),
                 TAINNW(maxsnw),TF24NW(maxsnw),ELEVNW(maxsnw),
                 NPP24,NPPVR,NTA24,NTAIN,NTF24,NEA24
                 INWSRT,INWDUM(4),
                 GENLNW(maxsnw),GPANW(maxsnw)
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Description of Variables

Variable	Type	Dimension	Word Position	Description
INWFIL	I*4	1	1	Indicator whether common block has been filled: -1 = filled but not enough room to store all stations 0 = not filled >0 = filled with INWFIL stations
INWTYP	I*4	1	2	Indicator of type of data stored: 1 = only data needed for last NETWORK run stored 2 = all data needed for DEFINE AREA run stored 3 = alphabetical order by station identifier data stored 4 = alphabetical order by station description data stored 1/
MAXSNW	I*4	1	3	Maximum number of stations that can be stored

Variable	Type	Dimension	Word Position	Description
INAUTO	I*4	1	4	Indicator whether automatic network run should be done: 0 = no 1 = yes
FLATMX	R*4	1	5	Maximum station latitude
FLATMN	R*4	1	6	Minimum station latitude
PP24NW	I*2	MAXSNW	7	Array location of pointers for 24-hr PCPN data: 2/ - if negative, station is synthetic - if station is not to receive weight in an MAP area, 15000 is added
PPVRNW	I*2	MAXSNW	7+MAXSNW/2	Array location of pointers for <24-hr PCPN data 2/
TA24NW	I*2	MAXSNW	7+2*MAXSNW/2	Array location of pointers for max/min TEMP data: 2/ - if negative, station is synthetic
EA24NW	I*2	MAXSNW	7+3*MAXSNW/2	Array location of pointers for PE data 2/
STATNW	I*2	MAXSNW	7+4*MAXSNW/2	State designator (2 characters)
STIDNW	A4	(2,MAXSNW)	7+5*MAXSNW/2	Station identifier
CORDNW	I*2	(2,MAXSNW)	7+5*MAXSNW/2 +2*MAXSNW	NWSRFS/HRAP coordinates (stored as X,Y in tenths of grid units)
WORKNW	R*4	MAXSNW	7+7*MAXSNW/2 +2*MAXSNW	Work array for storing station weights
SFLGNW	I*2	MAXSNW	7+7*MAXSNW/2 +3*MAXSNW	Indicator whether NETWORK has been run on this station: - indicator for PCPN data is stored in tens digit - indicator for TEMP data is stored in units digit
PCHRNW	I*2	MAXSNW	7+8*MAXSNW/2 +3*MAXSNW	Array location of precipitation

Variable	Type	Dimension	Word Position	Description
				characteristics 3/
TAINNW	I*2	MAXSNW	7+9*MAXSNW/2 +3*MAXSNW	Array location of pointers for instantaneous TEMP data 2/
TF24NW	I*2	MAXSNW	7+10*MAXSNW/2 +3*MAXSNW	Array location of pointers for Forecast max/min TEMP data 2/
ELEVNW	I*2	MAXSNW	7+11*MAXSNW/2 +3*MAXSNW	Station elevation (in meters to the nearest meter)
NPP24	I*2	1	7+12*MAXSNW/2 +3*MAXSMW	Number of stations with 24-hour PCPN data
NPPVR	I*2	1	8+12*MAXSMW/2 +3*MAXSNW	Number of stations with less than 24-hour PCPN data
NTA24	I*2	1	9+12*MAXSNW/2 +3*MAXSNW	Number of stations with maximum TEMP data
NTAIN	I*2	1	10+12*MAXSNW/2 +3*MAXSNW	Number of stations with instantaneous TEMP data
NTF24	I*2	1	11+12*MAXSNW/2 +3*MAXSNW	Number of stations with forecast TEMP data
NEA24	I*2	1	12+12*MAXSNW/2 +3*MAXSNW	Number of stations with PE data
INWSRT	I*2	1	13+12*MAXSNW/2 +3*MAXSNW	Indicator whether common block has been sorted: 0 = No 1 = Yes
INWDUM	I*2	4	14+12*MAXSNW/2 +3*MAXSNW	Unused
GENLNW	I*2	MAXSNW	18+12*MAXSNW/2 +3*MAXSNW	Record number of the GENL parameters in the Preprocessor Parametric Data Base
GPANW	I*2	MAXSNW	18+13*MAXSNW/2 +3*MAXSNW	Station grid point address

Notes:

1/ When the alphabetical order by description is being determined, the station descriptions are stored beginning with the array STIDNW.

The descriptions are stored as if an array STDSNW(5,MAXSNW) were equivalent to the first location in the array STIDNW.

2/ Array location is the location of the pointers in the pointer array returned from the Preprocessor Data Base (PPDB) read daily data routine (RPDDLY) for the given data type.

3/ Array location is the location of the characteristics in the array returned from the Preprocessor Parametric Data Base (PPPDB) read routine RPPCHR.