

IX.4.3C-PCPN PREPROCESSOR PARAMETRIC DATA BASE PARAMETER ARRAY PCPN:
STATION PRECIPITATION PARAMETERS

Purpose

Parameter array PCPN contains station precipitation parameters used by the Mean Areal Precipitation (MAP) Preprocessor Function.

Array Contents

<u>Starting Position</u>	<u>Dimension</u>	<u>Type</u>	<u>Input/Generated</u>	<u>Description</u>
1	1	I*4	G	Parameter array version number
2	1	A8	I	Station identifier
4	1	I*4	I	Station number
5	1	A20	I	Description
10	2	R*4	I	Location; latitude and longitude; units of decimal degrees
12	2	I*4	G	NWSRFS/HRAP coordinates stored as (X,Y)
14	1	I*4	I	Processing code: 0 = process normally 1 = set station precipitation to zero if missing 2 = synthetic station
15	1	I*4	I	Data time interval; units of HR <u>1</u> /
16	1	I*4	I or G	MDR box assigned to this station: 0 = MDR not to be used
17	2	R*4	I	Precipitation correction factors <u>2</u> /
19	1	I*4	I	Type of 24 hour precipitation weights: 0 = 1/D**2 >0 = number of stations with significance weight; maximum of 10
20	1	I*4	G	Indicator whether NETWORK has

<u>Starting Position</u>	<u>Dimension</u>	<u>Type</u>	<u>Input/Generated</u>	<u>Description</u>
				<p>been run on this station and whether it can be assigned to an MAP area:</p> <p>0 = no - can not use in MAP area</p> <p>1 = run previously - can not use in new MAP area</p> <p>2 = yes - can use 24 hour data in MAP area</p> <p>3 = yes - can use both 24 hour and less than 24 hour data in MAP area</p>
21	1	I*4	I or G	<p>Indicator whether station is to be used during station weighting:</p> <p>0 = no - use only for estimation</p> <p>1 = yes</p>
22	1	A2	I	Postal Service 2-character state identifier
23	1	I*4	G	<p>Array location of characteristics for this station: <u>6/</u></p> <p>0 = characteristics not used</p>
24	(4,5)	I*4	G	Array location of pointers for 24 hour PCPN data for 5 closest stations in each quadrant <u>3/ 7/</u>
44	(4,5)	R*4	G	Station weights of 5 closest 24 hour PCPN station in each quadrant <u>3/</u>
24	(2,10)	A4	I	Identifiers of stations with significance weights <u>4/</u>
44	10	I*4	G	Array locations of pointers for PCPN data for station <u>4/ 7/</u>
54	10	R*4	I	Weights for stations <u>4/</u>
64	(3,4)	I*4	G	Array location of pointers for less than 24 hour PCPN data for 3 closest stations in each quadrant <u>5/ 8/</u>
76	(3,4)	R*4	G	Weights for less than 24 hour stations <u>5/</u>

Notes:

- 1/ Can be only 1, 3, 6 or 24 hours.
- 2/ There can be 0, 1 or 2 correction factors defined. If there is one, it is used when processing data for any month of the year. If there are two, the first is used when processing data that is in the winter season and the second is used when processing data that is in the summer season. Undefined correction factors are stored as -999.
- 3/ Defined only if $1/D^{*2}$ weights are being used.
- 4/ Defined only if significance weights are being used.
- 5/ Defined only if station has a less than 24 hour reporting time interval.
- 6/ Location of the characteristics in the array returned from the Preprocessor Parametric Data Base routine RPPCHR.
- 7/ Location of the pointers in the pointer array returned from the Preprocessor Data Base routine RPDDL_Y for the data type PP24.
- 8/ Location of the pointers in the pointer array returned from the Preprocessor Data Base routine RPDDL_Y for the data type PPVR.