

IX.4.3C-MAP PREPROCESSOR PARAMETRIC DATA BASE PARAMETER ARRAY MAP:  
MEAN AREAL PRECIPITATION (MAP) AREA PARAMETERS

Purpose

Parameter array MAP contains area parameters used to compute Mean Areal Precipitation (MAP) for an MAP area.

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	MAP area identifier
4	1	A20	I	Description
9	1	I*4	I	Data time interval; units of HR <u>1</u> /
10	1	A8	I	Identifier of basin boundary used by this area <u>2</u> /
12	1	I*4	I	Type of timing weights: 1 = predetermined 2 = 1/D**2 3 = 1/D**POWER
13	1	R*4	I	Exponent in 1/D**POWER <u>3</u> /
14	1	I*4	I or G	Number of stations used for time distribution (NSTWT): 4 = 1/D**2 weights >10 = predetermined or 1/D**POWER weights
15	1	I*4	I	Type of station weights: 1 = predetermined 2 = grid point 3 = Thiessen 4 = 1/D**POWER
16	1	A8	I	Identifier of Future MAP area used by this area
18	2	R*4	I or G	Centroid; NWSRFS/HRAP

<u>Starting Position</u>	<u>Dimension</u>	<u>Type</u>	<u>Input/Generated</u>	<u>Description</u>
				coordinates stored as (X,Y)
20	2	R*4	G	Unused
22	1	I*4	G	Number of stations used to compute MAP (NPCPN) <u>4/</u>
23	1	I*4	G	Number of sets of station weights (NSETS) <u>5/</u>
24	NSTWT	A8	I or G	Station identifiers of timing stations
24+2*NSTWT	NSTWT	R*4	I or G	Timing weights
24+3*NSTWT	(2,NSTWT)	I*4	G	NWSRFS/HRAP coordinates of timing stations; stored as (X,Y) <u>6/</u>
24+3*NSTWT + (2*NSTWT*ITM)	NPCPN	A8	I or G	Station identifiers of stations used to compute MAP
24+3*NSTWT + (2*NSTWT*ITM) +NPCPN	(NPCPN,NSETS)	R*4	I or G	24 hour MAP station weights <u>7/</u>
24+3*NSTWT + (2*NSTWT*ITM) +NPCPN + (NPCPN*NSETS)	(2,NPCPN)	I*4	G	NWSRFS/HRAP coordinates of stations used to compute MAP; stored as (X,Y) <u>6/</u>

Notes:

- 1/ Currently can be only 6 hours.
- 2/ Defined only if grid point or Thiessen weights used or MDR boxes are automatically determined. Blank if not defined.
- 3/ Only defined if 1/D\*\*POWER timing or station weights are used.
- 4/ No maximum value.
- 5/ One or two sets can be defined. Two sets can be defined only if predetermined weights are being used.

- 6/ NWSRFS/HRAP coordinates are stored only if predetermined weights are not used. ITM is zero if predetermined timing weights are being used and 1 if not.
- 7/ If two sets of weights are defined then the winter weights are stored first followed by the summer weights.