

IX.4.3C-BASN PREPROCESSOR PARAMETRIC DATA BASE PARAMETER ARRAY BASN:
 BASIN BOUNDARY PARAMETERS

Purpose

Parameter array BASN contains basin boundary parameters for an 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	Basin boundary identifier
4	1	A20	I	Description
9	1	R*4	I	Mean elevation; units of M
10	1	R*4	I	Basin area; units of KM2
11	1	R*4	G	Computed basin area; units of KM2
12	2	I*4	G	Centroid of area; NWSRFS/HRAP coordinates stored as (X,Y)
14	1	A8	G	Identifier of MAP area that uses this basin boundary <u>1</u> /
16	1	A8	G	Identifier of MAT area that uses this basin boundary <u>1</u> /
18	1	I*4	G	Update indicator for MAP parameters: <u>2</u> / 0 = not updated 1 = updated
19	1	I*4	G	Update indicator for MAT parameters: <u>2</u> / 0 = not updated 1 = updated
20	1	A8	G	Identifier of NEXRAD MAP (MAPX) area that uses this basin boundary <u>3</u> /
22	1	I*4	G	NWSRFS/HRAP grid spacing factor
23	1	I*4	G	Number of pairs of basin boundary points (NBPTS)

<u>Starting Position</u>	<u>Dimension</u>	<u>Type</u>	<u>Input/Generated</u>	<u>Description</u>
24	1	I*4	G	Number of NWSRFS/HRAP grid segments used to define the basin (NSEGS)
25	(NBPTS,2)	R*4	I	Pairs of basin boundary points; latitude and longitude; units of decimal degrees; stored in clockwise order
25+2*NBPTS	(NSEGS,3)	I*4	G	Grid point definition <u>4/</u>

Notes:

- 1/ Blank if not referenced.
- 2/ Indicates whether parameters were updated since basin boundary was defined or redefined.
- 3/ Set to -999.0 if not referenced.
- 4/ The grid point definition for the basin is stored as NWSRFS/HRAP grid segments. Each segment is defined by the row number and the beginning and ending column on the row. The row numbers for all segments are stored first followed by the beginning column for all segments and then the ending column for all segments.

The grid point definition values are stored as actual I*4 bytes.