IX.4.3C-FFG PREPROCESSOR PARAMETRIC DATA BASE PARAMETER ARRAY FFG: FLASH FLOOD GUIDANCE OPERATION PARAMETERS

Purpose

Parameter array FFG contains parameters for the Flash Flood Guidance Operation.

Array Contents

Starting <u>Position</u>	Dimension	Туре	Input/ <u>Generated</u>	Description
1	1	I*4	G	Parameter array version number
2	1	A8	I	Flash flood guidance area identifier
4	1	A20	I	Description
9	1	A8	I	Basin boundary identifier $\underline{1}/$
11	1	R*4	G	HRAP row (Y coordinate) of basin centroid; from basin boundary definition
12	1	R*4	G	HRAP column (X coordinate) of basin centroid; from basin boundary definition
13	1	I*4	I	Duration flag: 0 =1, 3 and 6 hours 1 =1, 3, 6 and 12 hours 2 =1, 3, 6, 12 and 24 hours
14	1	⊥*4	I	Location of snow model information in this array (LS): 0 = not used
15	2	R*4	G	Unused <u>2</u> /
17	1	I*4	G	Julian hour of values as specified by HCL Technique LSTCMPDY; hours since 01/01/1900/00Z
18	8	R*4	G	Four pairs of alternating rainfall and runoff values that define the curve for 1 hour duration
26	8	R*4	G	Four pairs of alternating rainfall and runoff values that

Starting <u>Position</u>	Dimension	Type	Input/ <u>Generated</u>	Description
				define the curve for 3 hour duration
34	8	R*4	G	Four pairs of alternating rainfall and runoff values t define the curve for 6 hour duration
The follo is 1:	wing positi	lon is	used if th	e duration flag in position 1
42	8	R*4	G	Four pairs of alternating rainfall and runoff values t define the curve for 12 hour duration
The follo is 2:	wing positi	lon is	used if th	e duration flag in position 1
50	8	R*4	G	Four pairs of alternating rainfall and runoff values t define the curve for 24 hour duration
42 or 58	1	A8	I	Rainfall-runoff model type
44 or 60	1	A8	I	Rainfall-runoff model name
46 or 62	1	I*4	G	Number of rainfall-runoff mod carryover values
47 or 63	variable	R*4	G	State variables from rainfal runoff model <u>3</u> /
LS	1	A8	I	Snow model type
LS+2	1	A8	I	Snow model name
LS+4	1	I*4	G	Number of snow model carryov values
LS+5	variable	R*4	G	State variables from snow model $\underline{4}/$
tes:				
Must be o	defined.			
Initiali:	zed to 0.01			
For SAC-S UZTWC	SMA model: upper	zone t	ension wat	er contents; units of MM

UZFWC upper zone free water contents; units of MM LZTWC lower zone tension water contents; units of MM LZFSC lower zone free water supplementary storage contents; units of MM lower zone free water primary storage contents; units LZFPC of MM ADIMC additional impervious area contents; units of MM FΙ frost index; units of DEGC For API-CONT model: antecedent precipitation index; units of IN API soil moisture index deficit; units of IN SMI BFSC base flow storage contents; units of IN BFI base flow index; units of IN AEI or first quadrant index, IVOPT = 1; units of IN first quadrant index, IVOPT = 2; units of DEGF ATI frost index; units of DEGF FΙ FEI frost efficiency index; units of PCT IVOPT indicator of first quadrant index; units of INT For API-CIN model: antecedent precipitation index; units of IN API storm total rainfall; units of IN RANCO ROCO storm total runoff; units of IN AICO storm antecedent index; units of IN current antecedent index; units of IN AI NEWSTM storm period counter; units of INT average air temperature; units of DEGF AVGT ТC current corrected synthetic temperature; units of DEGF For API-HAR model: API antecedent precipitation index, API; units of IN SRAIM storm total rainfall; units of IN storm total runoff; units of IN SRO SFI storm antecedent index; units of IN YFI current antecedent index; units of IN SAEI storm antecedent evaporation index, AEI; units of IN YAEI current AEI; units of IN YAPI current API; units of IN For API-HFD model: antecedent precipitation index, API; units of IN API SRAIM storm total rainfall; units of IN SRO storm total runoff; units of IN SFI storm antecedent index; units of IN current antecedent index; units of IN YFI storm antecedent evaporation index, AEI; units of IN SAEI YAEI current AEI; units of IN current API; units of IN YAPI For API-MKC model: antecedent precipitation index; units of IN API storm total rainfall; units of IN RANCO storm total runoff; units of IN ROCO AICO storm antecedent index; units of IN

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<u>4</u> / Fo:	r SNOW-17	model (common block SNCO19 variables):
	WE	solid portion of water equivalent; units of MM
	NEGHS	heat deficit; units of MM
	LIQW	liquid water storage; units of MM
	TINDEX	temperature index; units of DEGC
	ACCMAX	<pre>maximum water equivalent since snow began to accumulate; units of MM</pre>
	SB	areal water equivalent just prior to the new snowfall;
	-	units of MM
	SBAESC	areal extent of snow cover just prior to the new
		snowfall; units of PCT
	SBWS	water equivalent above which 100 percent areal snow cover temporarily exists; units of MM
	STORGE	excess liquid water in storage; units of MM
	AEADJ	areal extent of snow cover adjustment; units of MM
	EXLAG(1) to (N)	55
		data)