

VIII.3.3-CHANLOSS CHANNEL LOSS OPERATION

Identifier: CHANLOSS

Operation Number: 8

Parameter Array: The FORTRAN identifier used for the parameter array is PLOSS. The contents of array PLOSS are:

<u>Position</u>	<u>Contents</u>
1	Operation version number
2-6	General name for the area or point
7-8	Identifier for instantaneous discharge time series
9	Data type code for discharge time series
10	Data time interval for discharge time series
11	Water surface area (WSAREA)

If PLOSS(11) is greater than zero then the next position contains:
0 = no PE time series
1 = PE time series available

If PLOSS(11) is greater than zero and PE time series is available then the next four positions contain:
o identifier for PE time series (2 positions)
o data type code for PE time series
o data time interval for PE time series

The next two positions contain:
o channel bottom loss parameter (SSOUT)
o type of channel bottom loss:
0 = no loss (SSOUT = 0)
1 = constant SSOUT (CMS)
2 = constant SSOUT (percent/100)
3 = variable SSOUT (CMS)
4 = variable SSOUT (percent/100)

If type of channel bottom loss is greater than 2, next 24 positions contain:
o 12 mid-month SSOUT values (January-December)
o 12 daily increments between mid-month SSOUT values
(first increment is for period 1/16-2/16)

If PLOSS(11) is greater than zero, next 26 positions contain:
o type of daily evaporation distribution:
0 = uniform
1 = diurnal
o constant evaporation adjustment factor (PEADJ)

- o 12 mid-month average evaporation (EA) or seasonal adjustment (EMO) curve values (January-December)
- o 12 daily increments between mid-month EA/EMO curve values (first increment is for period 01/16-02/16)

Carryover Array: There is no carryover for this Operation.

Subroutines Names and Functions: Subroutines associated with this Operation are:

<u>Subroutine</u>	<u>Function</u>
PIN8	Input cards and store information in array PLOSS
PRP8	Print information in array PLOSS
PUC8	Punch information in array PLOSS
EX8	Execute the Operation
TAB8	Make entry into the Operations Table

Subroutines PIN8, PRP8 and PUC8 have the standard argument lists for these subroutines as given in Section VIII.4.3.

SUBROUTINE EX8 (PLOSS,Q,PE)

Function: This is the execution subroutine for Operation CHANLOSS.

Argument List:

<u>Variable</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
PLOSS	Input	R*4	Variable	Contains parameters and other information
Q	Both	R*4	Variable	Discharge time series data
PE	Input	R*4	Variable	PE time series data if available

SUBROUTINE TAB8 (TLOSS,LEFT,IUSET,NXT,LPLOSS,PLOSS,TS,MTS)

Function: This is the Operations Table entry routine for Operation CHANLOSS.

Argument List: The arguments for this subroutine are similar to the arguments for the Operations Table entry subroutines for other Operations. A description of the arguments is contained in Section VIII.4.2-TAB.

Operation Table Array: The contents of the TLOSS array are:

<u>Position</u>	<u>Contents</u>
1	Operation number
2	Location in the T array of the next Operation to be executed
3	Location of the parameter array for this Operation in the P array
4	Location of the discharge data in the D array
5	Location of the PE data in the D array: 0 = none used