VIII.3.3-RSNWELEV RAIN-SNOW ELEVATION OPERATION

Identifier: RSNWELEV

Operation Number: 42

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

  Position   Contents

    1   Operation version number - integer

    2   Data time interval and time interval of all time
                  series - integer

   3-4   Air temperature time series identifier

    5   Air temperature time series data type code

    6   Elevation associated with the air temperature time
                  series (M)

    7   Lapse rate during precipitation periods (DEGC/100M)

    8   Threshold temperature (DEGC)

   9-10   Rain-snow elevation time series identifier

   11   Rain-snow elevation time series data type code

   12   Freezing level time series indicator:
                     0 = time series not used
                     1 = time series used

  13-14   Freezing level time series identifier:
                     blank = not used

   15   Freezing level time series data type code:
                     blank = not used

  16-20   Unused (set to 0.01)

Carryover Array: The FORTAN identifier used for the carryover array
is CO. Carryover is only needed when a freezing level time series is
used. The contents of the CO array are as follows:

  Position   Contents

    1   Previous value of the freezing level time series

<u>Subroutines Names and Functions</u>: The subroutines associated with this Operation are:

   <u>Subroutine</u>   <u>Function</u>

   PIN42   Input cards, makes checks and stores values in PO and CO arrays

   TAB42   Makes Operation Table entries

   PRP42   Print parametric data

   PRC42   Print carryover data

   PUC42   Output cards in the format which can be read by routine PIN42

   COX42   Perform carryover transfer

   EX42   Execute the Operation

Subroutines PIN42, PRP42, COX42, and PUC42 have the standard argument lists for these subroutines as given in Section VIII.4.3. Subroutine PRC42 only has the CO array as an argument.

```
SUBROUTINE EX42 (PO,CO,TA,RSEL,ZELV)
```

Function: This is the execution subroutine for the Operation
RSNWELEV.

Argument List:

Variable	Input/ Output	Type	Dimension	Description
PO	Input	R*4	20	Parameter array
CO	Input	R*4	1	Carryover array
TA	Input	R*4	Variable	Air temperature data (DEGC)
RSEL	Output	R*4	Variable	Rain-snow elevation values (M) (set to -100.0 when NOSNOW=1)
ZELV	Input	R*4	Variable	Freezing level data (M)

```
SUBROUTINE TAB42 (TO,LEFT,IUSET,NXT,LPO,PO,LCO,TS,MTS,LWORK,IDT)
```

Function: This is the Operations Table entry subroutine for
Operation RSNWELEV.

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

Operations Table Array: The contents of the TO array are:

Position	Contents
1	Operation number
2	The location in the T array of the next Operation to be executed
3	Location of the PO array in the P array
4	Location of the CO array in the C array: 0 = carryover not needed
5	Location of air temperature data in the D array
6	Location to put the rain-snow elevation data in the D array
7	Location of freezing level data in the D array: 0 = freezing level data are not used