## V.3.3-ADJUST-H ADJUST STAGE OPERATION

Identifier: ADJUST-H

Application: All programs

<u>Description</u>: This Operation creates an adjusted hourly stage time series using the adjustments created by Operation STAGEREV.

Operation ADJUST-H applies average daily balances from Operation STAGEREV to the mid-point of its associated hydrograph slice. Balances applied to forecast stages between slice mid-points are determined by linear interpolation (see Figure 1).

The forecast stages below Slice 1 mid-point and above Slice 4 mid-point are assigned the average daily balance of slice 1 and 4 respectively.

The maximum run length is 30 days.

Developed by: Northwest River Forecast Center

Allowable Data Time Intervals: 1 hour

Time Series Used: Time series used in this Operation are as follows:

General Type	Dimn	Units	Use	Required	Data Time Interval	Missing Values Allowed
Input stage	L	FT	I	yes	1	no
Range limit	L	FT	I	yes	1	no
Range1AveBal	L	FT	I	yes	24	no
Range2AveBal	L	FT	I	yes	24	no
Range3AveBal	L	FT	I	yes	24	no
Range4AveBal	L	FT	I	yes	24	no
Adjusted stage	L	FT	0	yes	1	no

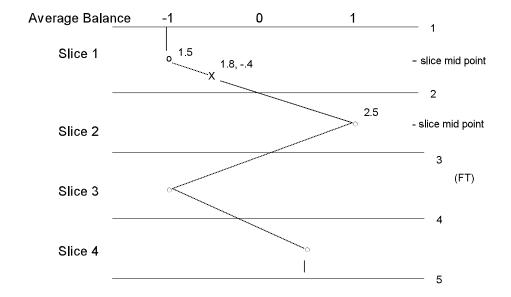
Input Summary: The card input for this Operation is in free-format
and is as follows:

Card	Field	Format	Contents

Card	Format	Columns	Contents
1	1	A72	User supplied information
2			Input time series definition:
	1	A8	Input stage time series identifier
	2	A4	Input stage time series data type code
	3	A8	Range Limit time series identifier
	4	A4	Range Limit time series data type code
3			Input/output time series definition:
	1	A8	Rangel average daily stage balance time series identifier
	2	A4	Rangel average daily stage balance time series data type code
	3	A8	Range2 average daily stage balance time series identifier
	4	A4	Range2 average daily stage balance time series data type code
	5	A8	Range3 average daily stage balance time series identifier
	6	A4	Range3 average daily stage balance time series data type code
	7	A8	Range4 average daily stage balance time series identifier
	8	A4	Range4 average daily stage balance time series data type code
	9	A8	Adjusted time series identifier
	10	A4	Adjusted time series data type code

Sample Input and Output: Sample input for this Operation is shown in Figure 2. Sample output from the parameter print routine is shown in Figure 3. There is no output from the execution routine.

Figure 1. Example of average balance linear interpolation



## Figure 2. Sample card input for Operation ADJUST-H

ADJUST-H PRTO3 STAGE ADJUST PRTO3ADJ SSTG RANGE SSTG

SBALR1 SSTG SBALR2 SSTG SBALR3 SSTG SBALR4 SSTG PRTO3\_FY SSTG

Figure 3. Sample output from Operation ADJUST-H print parameter routine

ADJUST-H OPERATION NAME=PRTO3 PREVIOUS NAME=

ADJUST STAGE- VERSION 1 STAGE ADJUST

ID CODE

PRIO3ADJ SSTG

RANGE SSTG

AMERICA RANGE1 SBALR1 SSTG

AVE BALANCE RANGE2 SBALR2 SSTG

AVE BALANCE RANGE3 SBALR3

AVE BALANCE RANGE4 SP\*

IMARY OUTPUT TIME SEP\*

ADJUSTED STAGF INPUT TIME SERIES

PRIMARY OUTPUT TIME SERIES
ADJUSTED STAGE TS PRT03\_FY SSTG