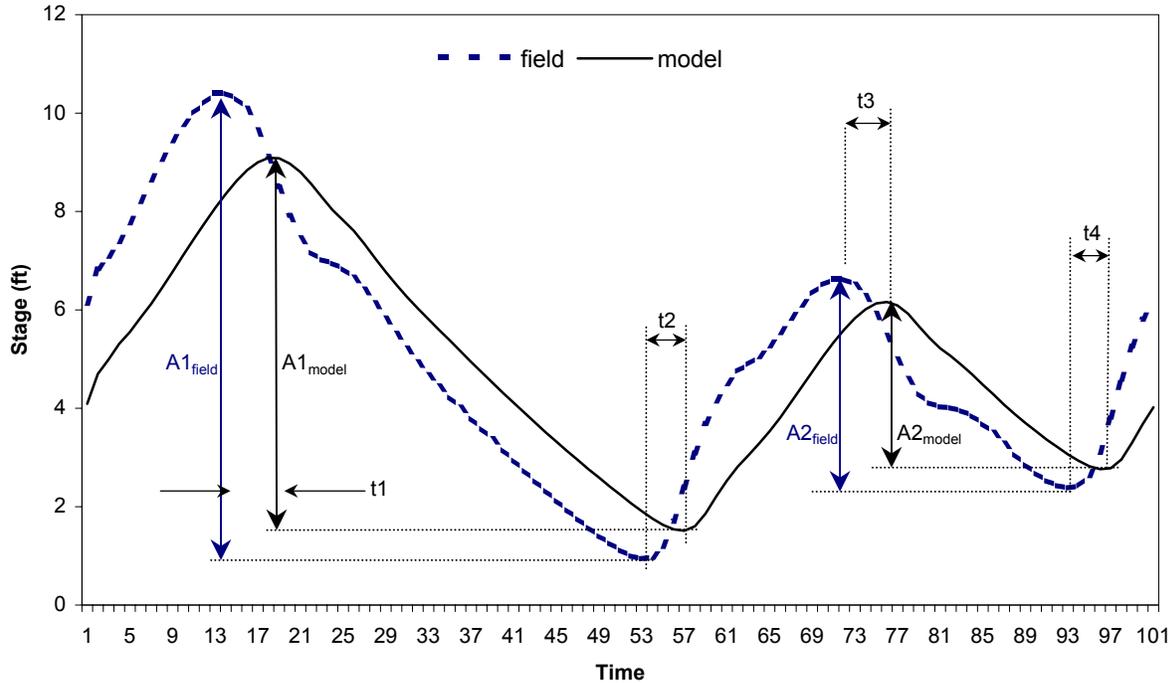


Error Index Calculations for Field/Model Stage Data Comparisons



The rms error is calculated over the entire period of record for each calibration period.

The amplitude and phase error indexes are calculated over one calendar day in each calibration period. Four contiguous extrema are used for making comparisons. The dates were chosen to minimize missing field data.

- period 1: May 10, 1988
- period 2: Apr 7, 1997
- period 3: Apr 20, 1997
- period 4: Sep 22, 1998

Error Index Equations:

$$\text{rms error} = \frac{[\text{sum}(\text{model-field})^{**2}]^{**0.5}}{n^{**0.5}}$$

$$\text{amp error (feet)} = \frac{\text{dif1} + \text{dif2}}{2}$$

where: dif1 = A1model - A1field
dif2 = A2model - A2field

$$\text{ph error (minutes)} = \frac{(t1 + t2 + t3 + t4)}{4}$$

where: t1 = time of model peak1 - time of field peak2
t2 = time of model peak2 - time of field peak2
t3 = time of model peak3 - time of field peak3
t4 = time of model peak4 - time of field peak4

01