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.(Cole & Wells,2001)

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¹ US. Army Corps of Engineering



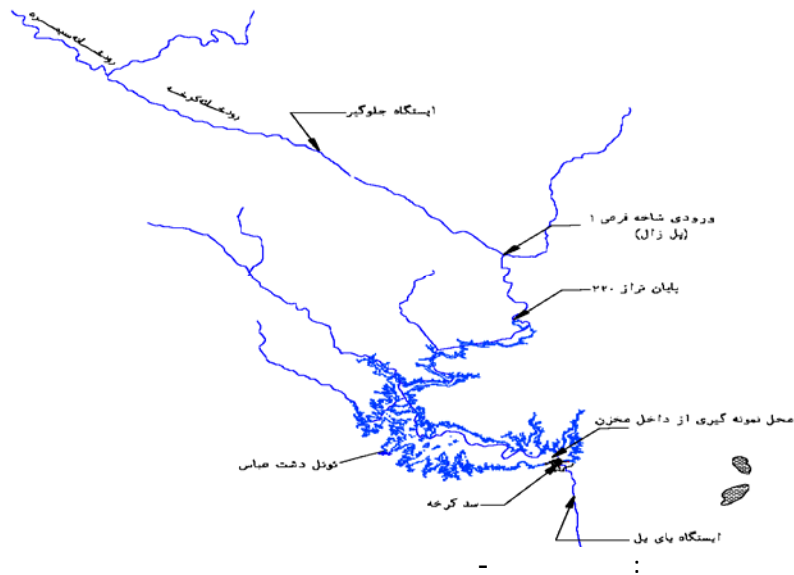
Cole &)

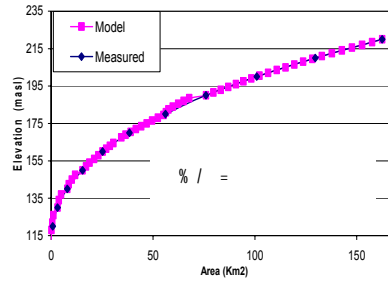
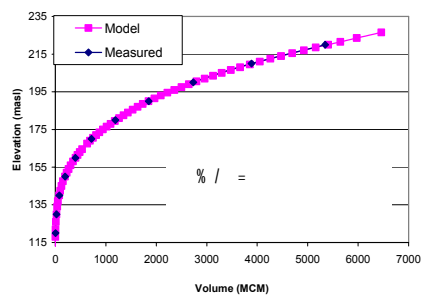
(Wells,2001

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$$AME = \frac{\sum |T_{\text{Observed}} - T_{\text{Predicted}}|}{N} \quad (1)$$

1 Absolute Mean Error



$T_{\text{Predicted}}$

T_{Observed}

N

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(Chapra,1997)	10	m^2s^{-1}	
(Cole & Wells,2001)	7.00E-08	$\text{Wm}^{-2}\text{S}^{-1}$	
*	0.34	m^{-1}	
(Cole & Wells,2001)	0.45	-	
(Cole & Wells,2001)	W2N	-	
(Chapra,1997)	0.001	-	

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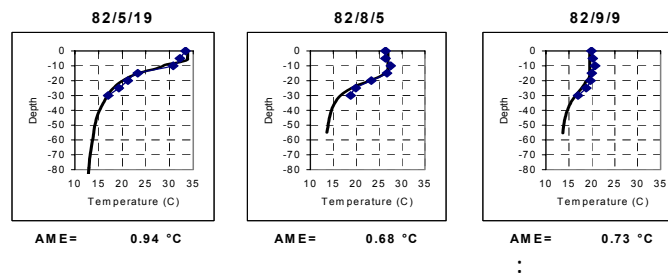
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$$\lambda = 1.11Z_s^{-0.73}$$

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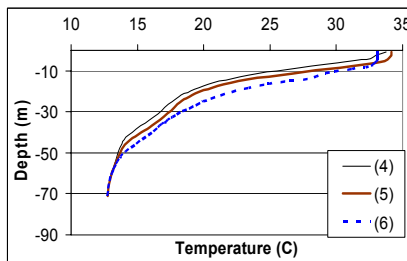
Z_s

λ

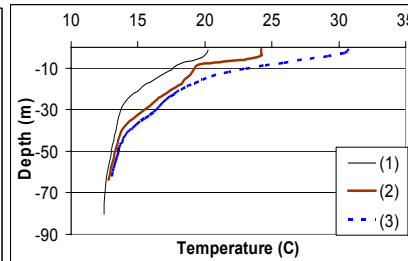




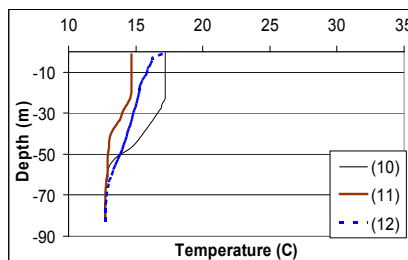
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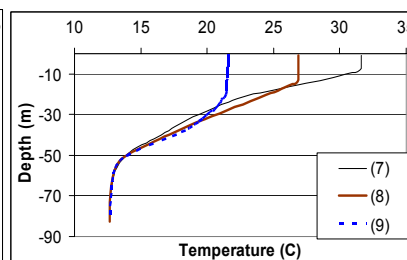
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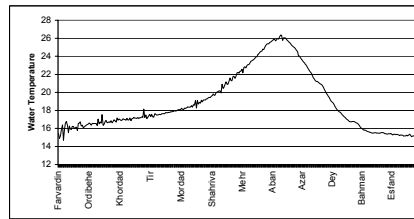
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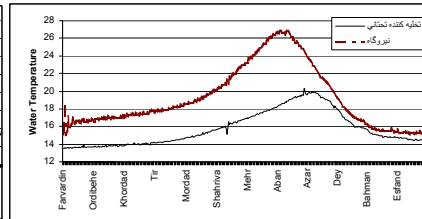
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Annear, R. and Wells, S. (2002) "The Bull Run River – Reservoir System Model,"
Proceedings, 2nd Federal InterAgency Hydrologic Modeling Conference, Las Vegas,
July 28-Aug 1, 2002
Chapra, S. C. (1997) Surface Water-Quality Modeling, McGraw-Hill.



Cole, T.M & Wells, S.A. (2001), "CE-QUAL-W2:A Two Dimensional, Laterally Averaged, Hydrodynamic and Water Quality Model, Version 3/1,User Manual",
Prepared for U.S Army Corps of Engineers Waterway Experiment Station
www.ce.pdx.edu/w2