## **DAFLOW**

Model Uses  DADFLOW is used for modeling and assessing stream flow based on Lagrangian methods who predicting discharge and transport velocity.					ds while
Major Categories	Hydrology and Water Use			Subject Knowledge Intermediate	
Minor Categories	Flow	<u>Technical Difficulty Level</u> Intermediate			
Model Type	Physical Model	<u>Geographic in Nature?</u> No			ture?
with a Lagrangian so transport velocity u and top-width contr The flow model is d which simulated the	model for routing stream flow using the olution scheme. The flow model is designing a minimum of field data and calibratibutes to the model's predictive capabilities are supported to support the BLTM transported fate and movement of dissolved waterhould be useful for routine flow routing	ned to provide r tion. The use of ty. nodel documente quality constitu	easonable f hydraulic ed by Jobso	predictions of dischargeometry coefficient	arge and nts for area (1987),
Future Developments Unknown		Model Limitations Unknown			
Model Features  • Diffusion	n analogy flow equations				
Lagrang					
Supports the BLTM transport model (Jobson and Schoell					
<ul><li>Support</li></ul>	,				
	s WDM files				
Required Data Types (1) Network description including branch lengths, wave celerity, and wave attenuation.		Model Outputs  DAFLOW and WDAFLO both generate a flat file containing the discharge, cross-sectional area, top width, and tributary inflow at each grid point and time step. This			
(2) Inflow hydro graphs at the upstream boundaries and at tributaries input from either a flat file (DAFLOW or WDAFLO or from a WDM file (WDAFLO).		format is compatible with BLTM input requirements. WDAFLO will also write the discharge to a WDM file.			
Hardware Requirements None noted.		Supported Platforms DOS 🖂 UNIX 🖂			
		Windows		Macintosh	

# Software Requirements None noted.

Cost, Licensing and Availability
DAFLOW is provided free of charge from the link below.

### Source

**US** Geological Survey

Source (URL) http://water.usgs.gov/software/daflow.html