## **Columbia River Basin**

Jackie S. Pettway, P.E. Chief, Harbors, Entrances and Structures Branch



# Mouth of the Columbia River



•Demirbilek, Z., Lin, L., and Nwogu, O. G. (2008) "Wave Modeling for Jetty Rehabilitation at the Mouth of the Columbia River, Washington/Oregon, USA," ERDC/CHL-TR-08-3, US Army Engineer Research and Development Center, Coastal and Hydraulics Laboratory, Vicksburg, Mississippi.

Sand Waves That Impede Navigation of Coastal Inlet Navigation Channels PDF - [Aug 2006]
Analysis of Sediment Transport Processes

Draft Chapter to appear in **Dredged Material Disposal at the Mouth of the Columbia River—Report 2 Technical Report** By Joseph Z. Gailani, S. Jarrell Smith

## Bonneville





## The Dalles



### John Day







# McNary



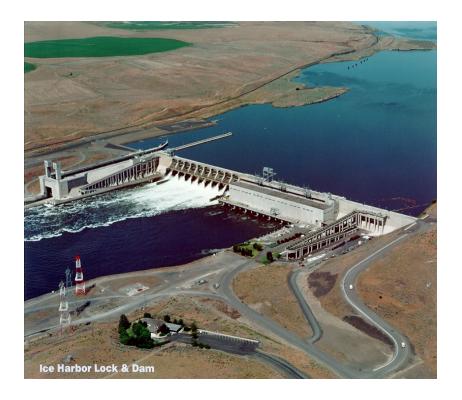
#### **ICE HARBOR**







## Ice Harbor Demo



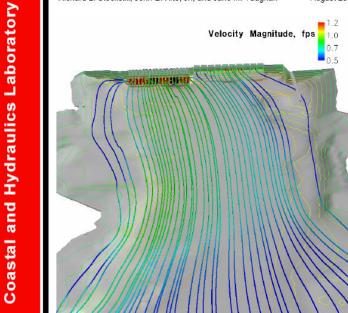
Navigation Systems Research Program Washington #73#85-2583581955

ΗŤ **US Army Corps** of Engineers® Engineer Research and Development Center

#### Computational Model of Ice Harbor Forebay,

Richard L. Stockstill, John E. Hite, Jr., and Jane M. Vaughan

August 2005



Approved for public release; distribution is unlimited.

ERDC/CHL TR-05-5

#### Lower Monumental







# Lower Monumental Study



ERDC/CHL TR-05-9



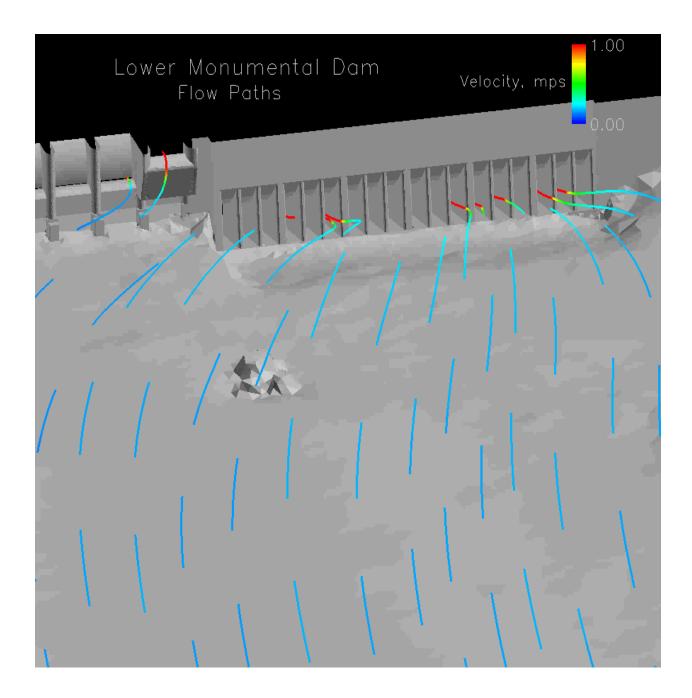


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#### Computational Model of Lower Monumental Forebay

Richard L. Stockstill, John E. Hite, Jr., and Jane M. Vaughan

September 2005

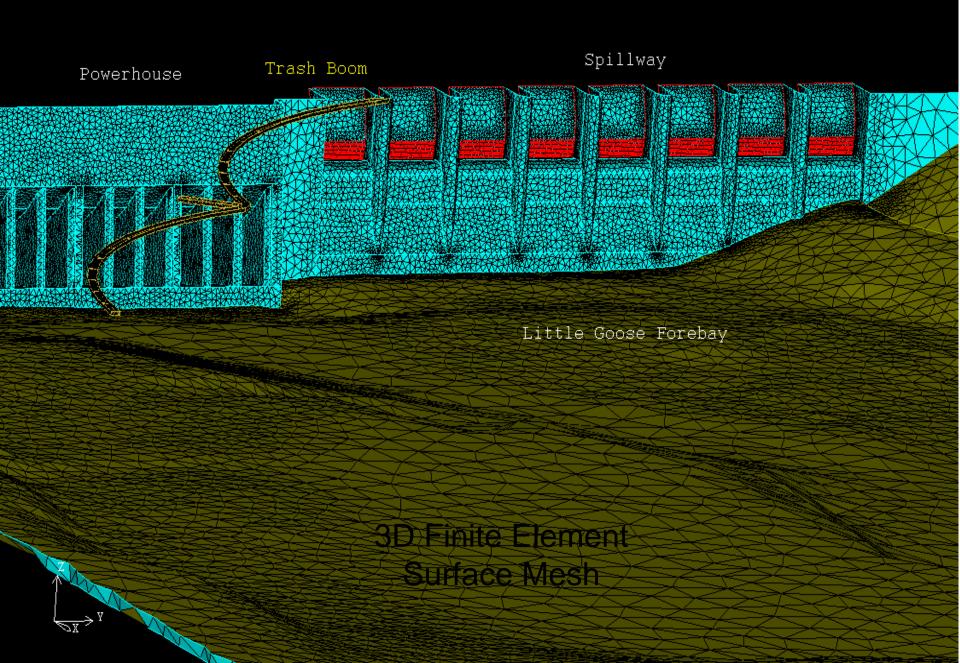


### Little Goose





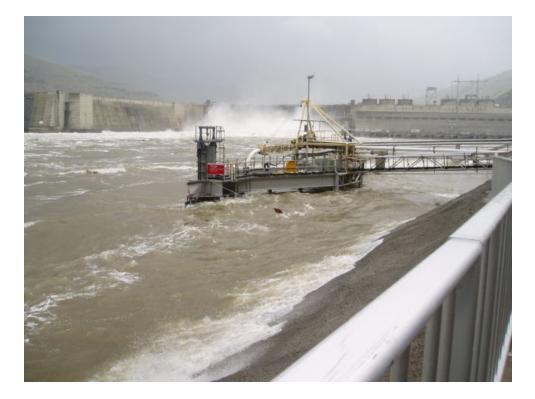








# Fish Barge Docking Issue



# Chief Joseph







# UCR

• EPA (through EL) funds CHL support for sediment transport analysis on the Upper Columbia River (UCR).

## Questions