Simple Tidal Flow Study Of Laguna Barra de Navidad

During

the Dry Season

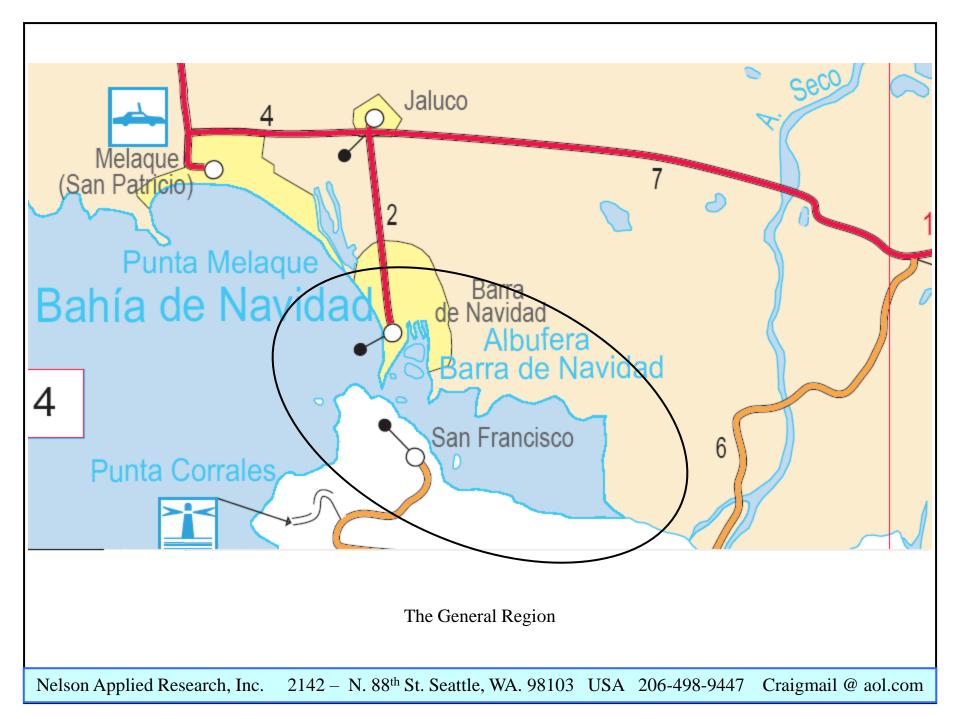
When

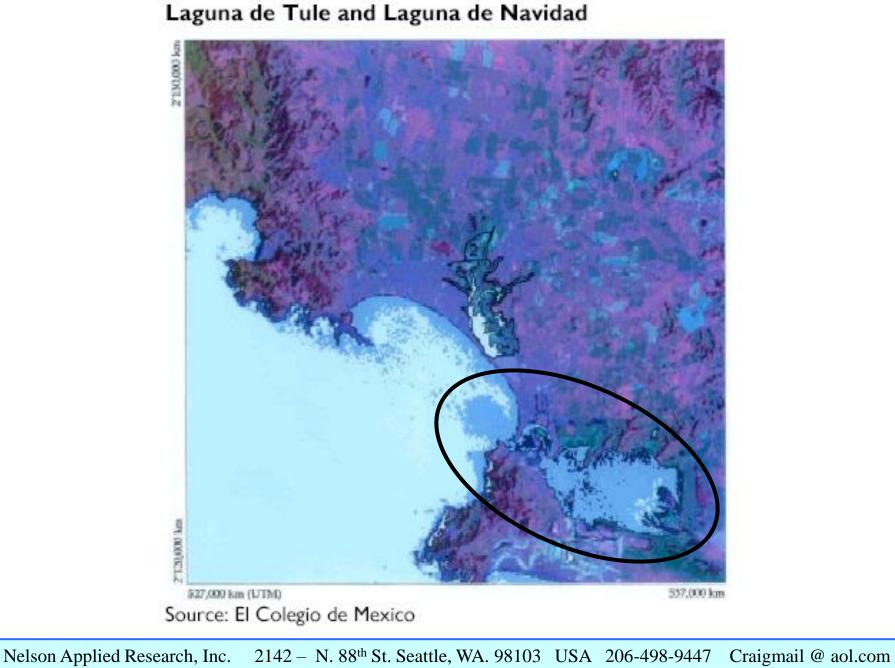
The Rio Marabasco is not Flowing

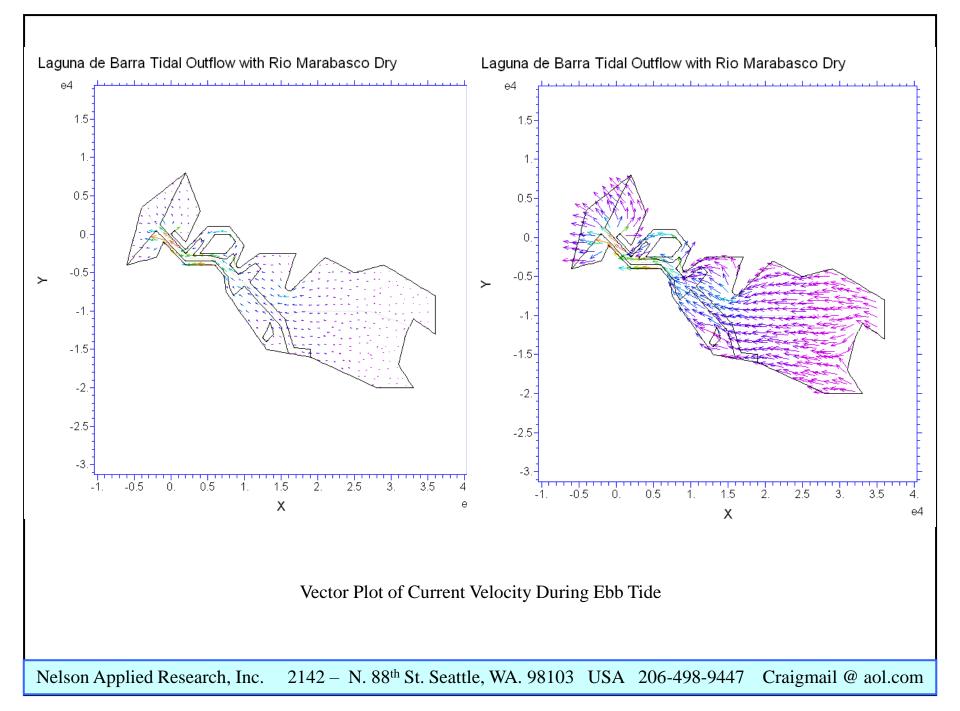
A Finite Element Analysis (FEA) using flexPDE

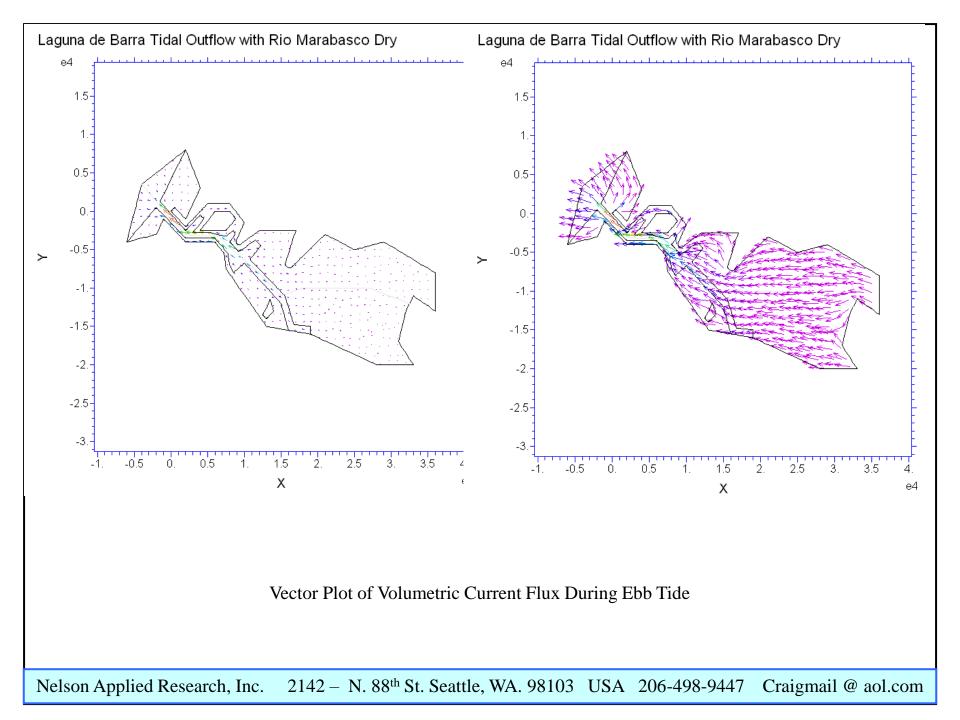
Craig E. Nelson - Consultant Engineer

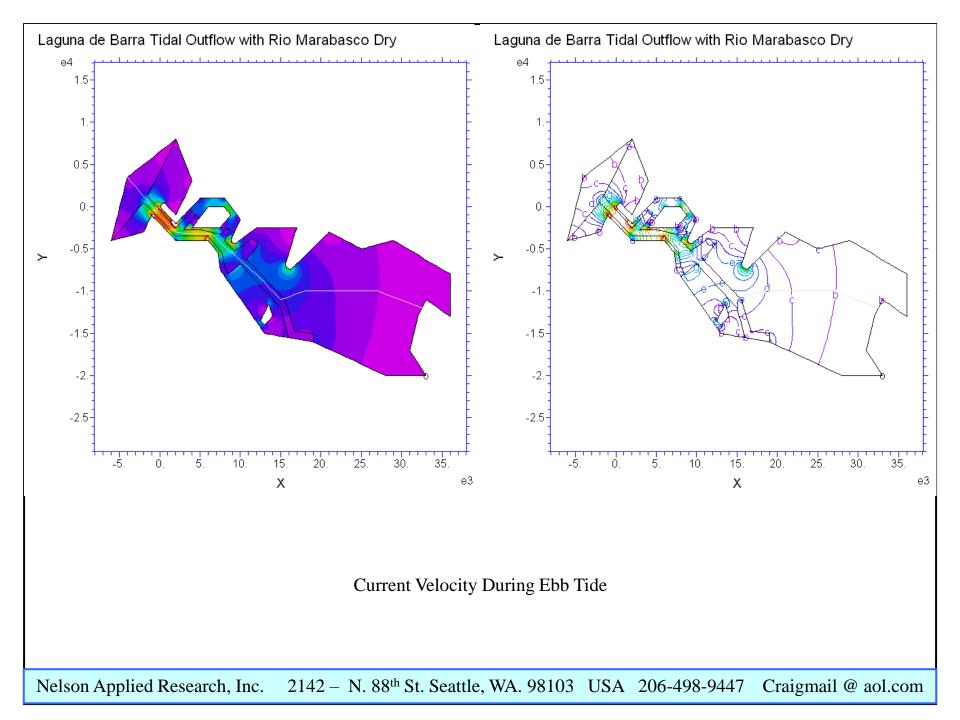
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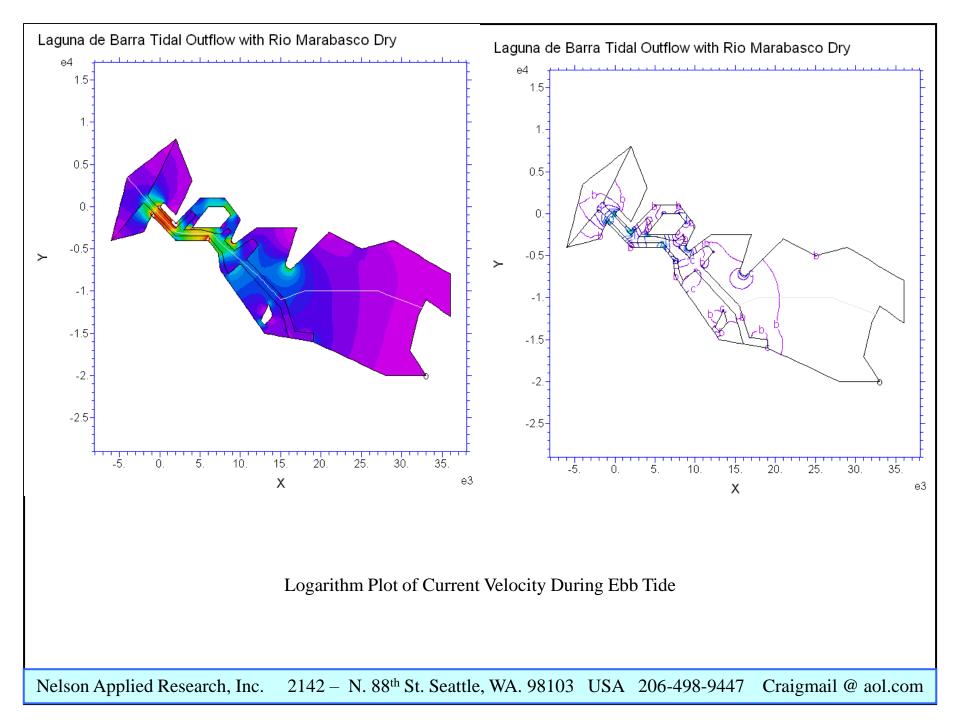


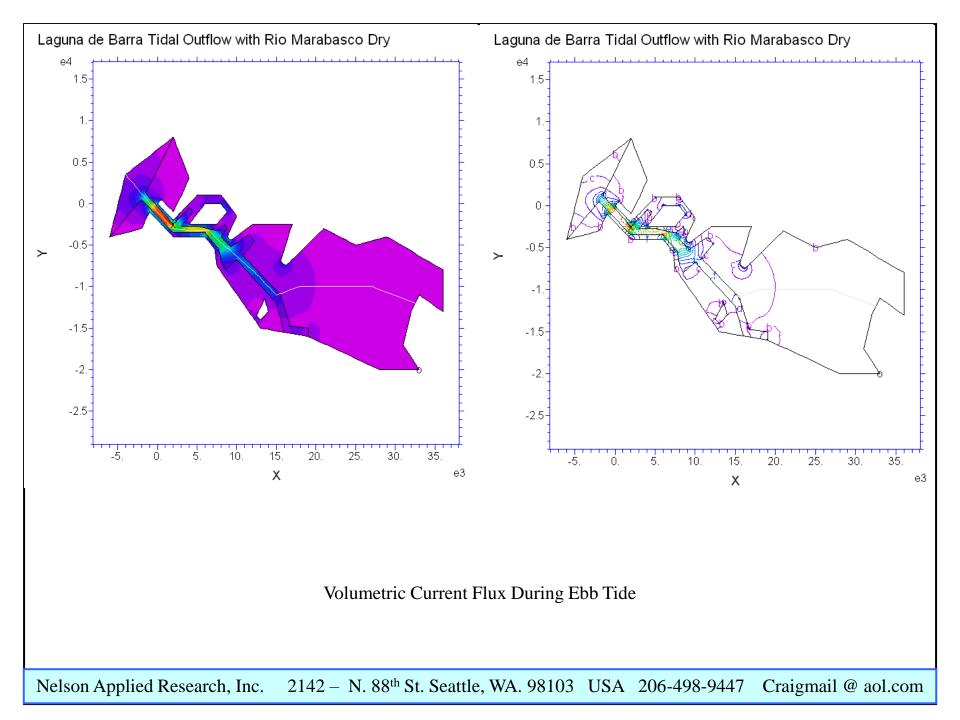


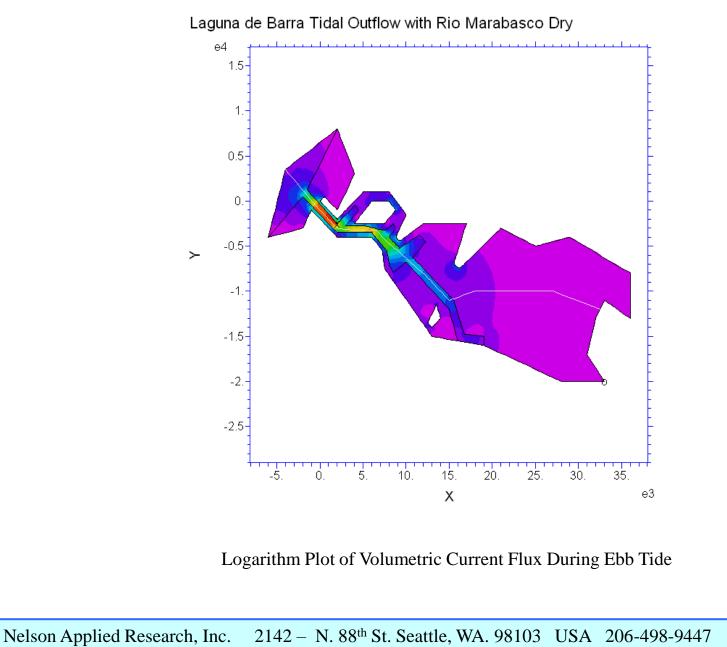




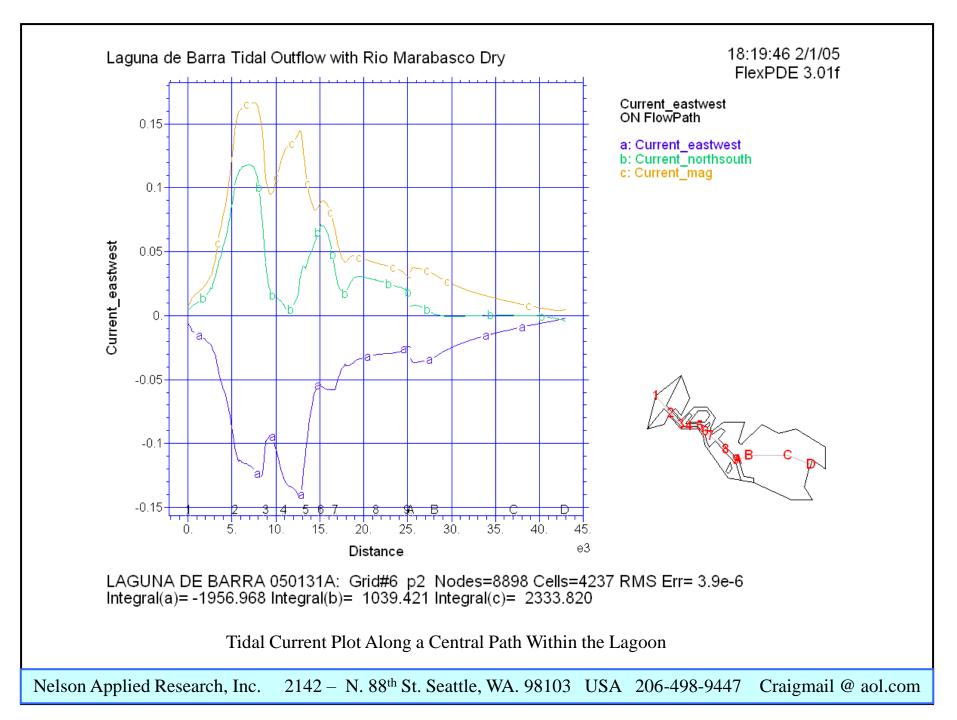


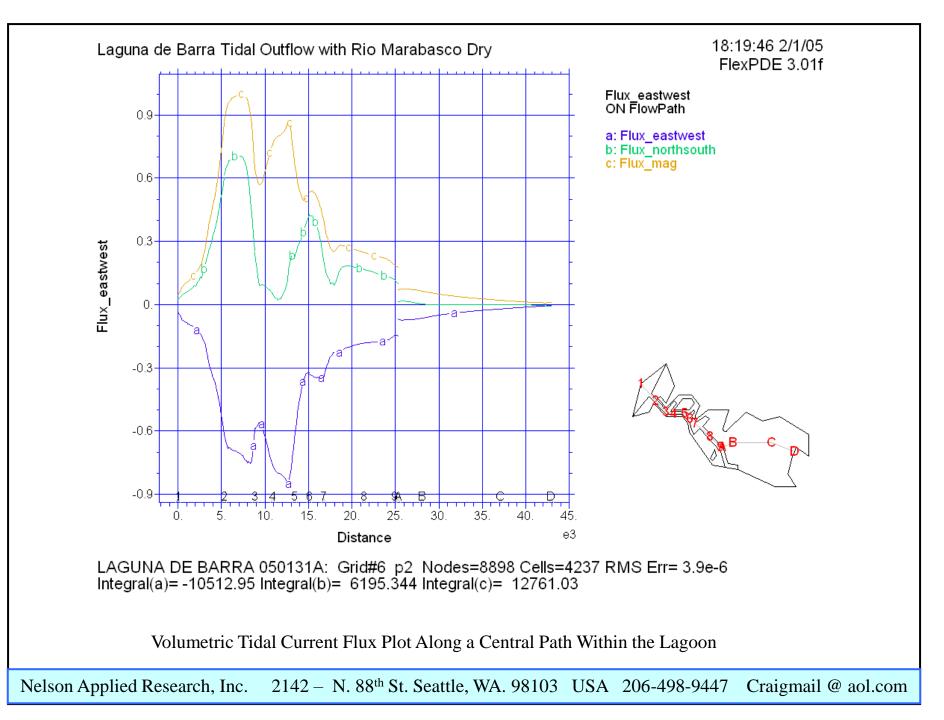






0447 Craigmail @ aol.com





Summary

A simple yet useful numerical model has been made for the purpose of understanding the Tidal current flow within the Laguna de Barra de Navidad Estuary.

The model shows general current flow characteristics during a moderate ebb tide during The dry season when the Rio Marabasco is not flowing.

With further work, many kinds of additional information can be obtained. This includes, but is not limited to, information about where pollutants will travel and where silt deposits may form.

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