## Landeyjahöfn

Ferry harbour on the South Coast of Iceland

Research and Development of the Ferry Port and navigational criteria for the Ferry

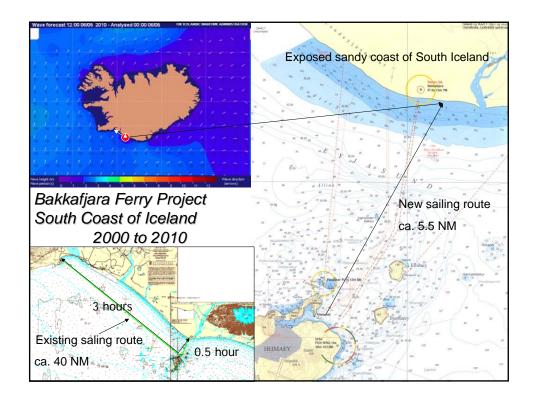
Climate Change: Global Change and Local Adaptation 6-9 June 2010 Hotel Rangá, Hella, Iceland

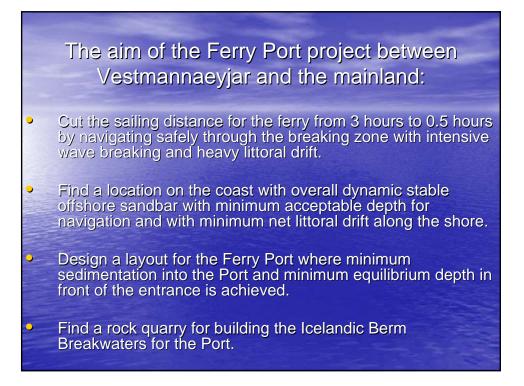
Presented by Gísli Viggósson, Director of Research and Development Icelandic Maritime Administration

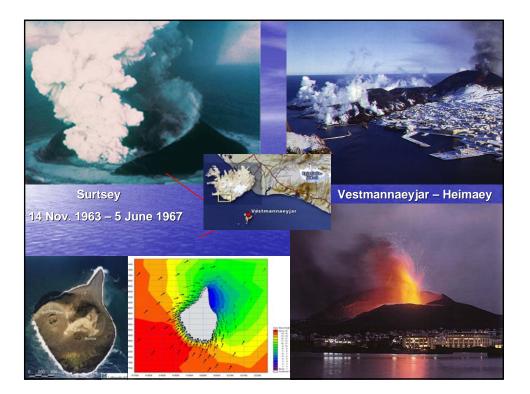
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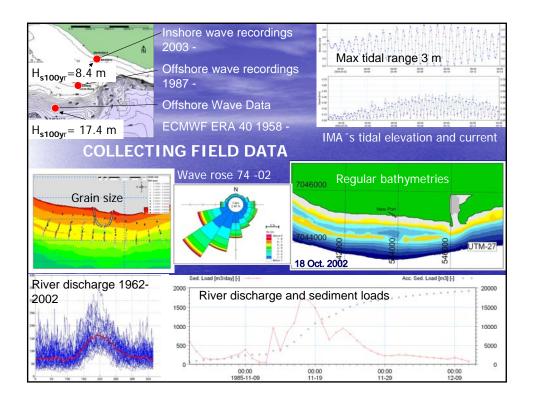


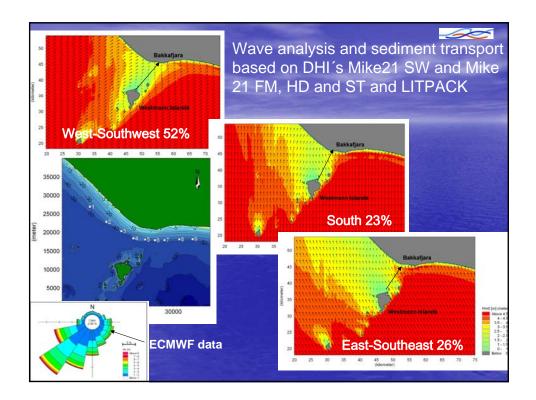


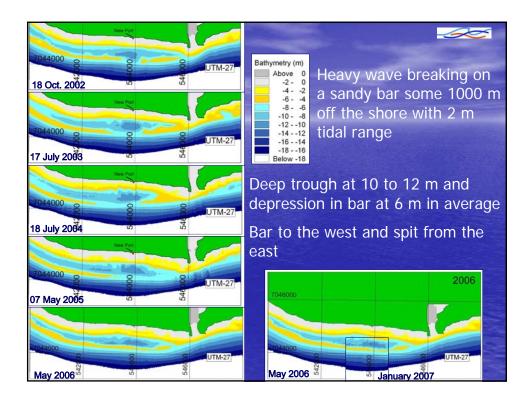


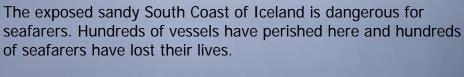














## Navigational tests over the sandbar for the ferry

Navigational criteria were established for the ferry over the sandbar into the ferry port by:

- sailing a remote-controlled model ferry,
- counting the number of breaking waves at the bar,
- wave measurements at 18 m, 15 m, 10 m and 6 m in front, at the top and at 10 m depth landward of the bar and in front of the ferry entrance.

evaluation of the total depth based on wave height, tidal elevation and the draft of the ferry.

The navigation is regarded safe for the ferry when up to 10% of waves break on the bar between 10 m and 6 m which stretches about 250 m along the navigational line.

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