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Beach User Perceptions of the Rip Current Hazard on the Great Lakes

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Abstract: With 47 recorded drownings in the Great Lakes this year (2016), rip currents and other surf hazards are a public has limited knowledge of rip currents, and are therefore not making informed decisions, which puts them at risk every time they go to the beach. This study attempts to quantify the survey examines how beach users make decisions on the beach including: what beach they visit, what they do at these locations, how they pick a site at the beach, and lifesavers from Canada and the United States. In order to gain an understanding of people's perception on rip currents, the online survey consists of beach photographs, scenarios, and general knowledge of rip currents, as well as creating awareness on the beaches of the Great Lakes. The goal is to aid in the development of new management strategies to influence beach user behaviour, in the hopes of reducing the number of drownings and rescues on the Great Lakes.

Introduction:

With 47 recorded drownings in 2016 on beaches of the Great Lakes, rip currents pose a significant health risk to potential beach users in Canada and the United States. In order to gain an understanding of peoples perception on rip currents, a survey was administered to the public about beach locations, influences, site preferences, scenarios, and general knowledge of the participants and rip currents.

The survey has two primary focuses: lifeguards/lifesavers and beach users. This allows us to gain an understanding of rip currents based on personal experience in their field and experience.

Methods:

The primary research method is a survey conducted with Fluid Survey. The survey consisted of questions pertaining general information of the survey taker, knowledge of rip currents, and possible beach hazards. Some of the imperative questions focused on in the survey were:

- Do you believe rip currents pose a threat in the Great Lakes?
- Did either image contain a rip current? Is so, which one?
- Have you ever been caught in a rip current? If so, where?
- Have you, or will you ever, enter the water alone with no one around?
- How likely are you to enter the water when your peers enter, on scale from 1-5.

Acknowledgements:

This survey was conducted under the REB number 33815







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The most common beach visits included: travelling on Saturday, with 3-4 family members from 12:00pm-2:00pm.

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