Make Your Research Matter

Dr. Chris Houser Dean of Science

AVARD & OT



Background



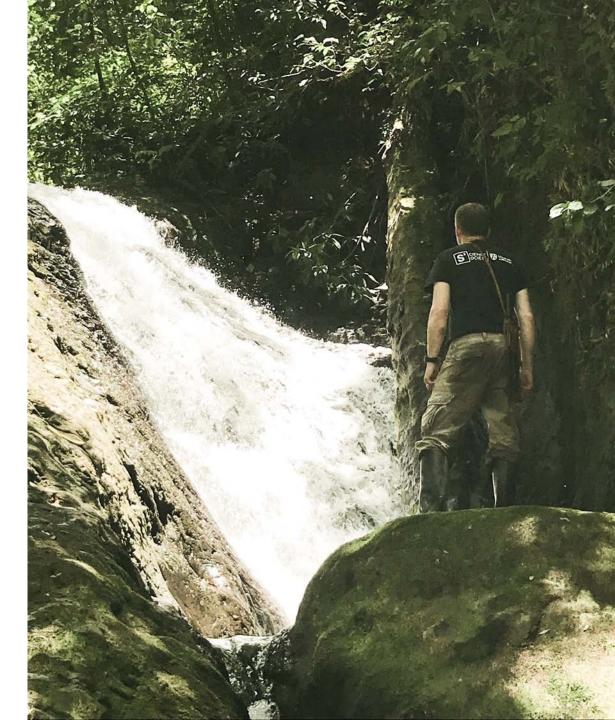
Assistant Professor 2004-06



Assistant Professor 2006-09 Associate Professor 2009-16 Undergraduate Chair 2011-14 Associate Dean 2014-16 Office of the Provost 2011-16



Professor 2016- present Dean 2016- present



Coastal Geomorphologist



Hurricane Ivan (2004)



Barrier Island Recovery

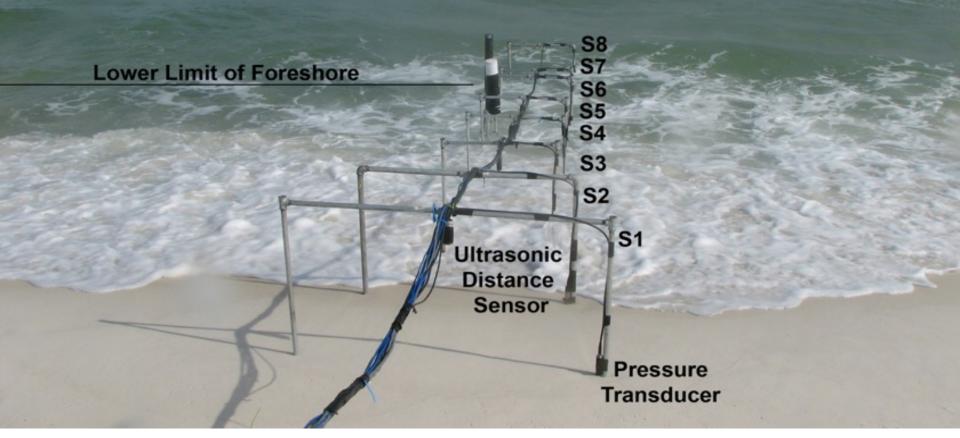


Controls on Dune Morphology

Rab



Beach and Dune Recovery







and the state of the state of the

Thurs A STREET

SATURDAY, APRIL 6, 2002 | THE TUSCALOOSA NEWS

Florida island deemed worst in nation for beach drownings

4B

Rip Currents

10.00





























RIP CURRENTS Break the Grip of the Rip![®]

ESCAPE

CURRENT

ESCAPE

CURRENT

ESCAPE

Rip currents are powerful currents of water moving away from shore. They can sweep even the strongest swimmer out to sea.

RIP CURRENT

ESCAPE

www.ripcurrents.noaa.gov



RIP CURRENTS KNOW YOUR OPTIONS

ESCAPE

CURRENT

IF CAUGHT IN A RIP CURRENT

- Relax
- Don't swim against the current
- Swim out of the current, then to shore
- · If you can't escape, float or tread water
- · If you need help, call or wave for assistance

RIP currents are powerful currents of water moving away from shore. They can sweep even the strongest swimmer out to sea.

RIP CURRENT

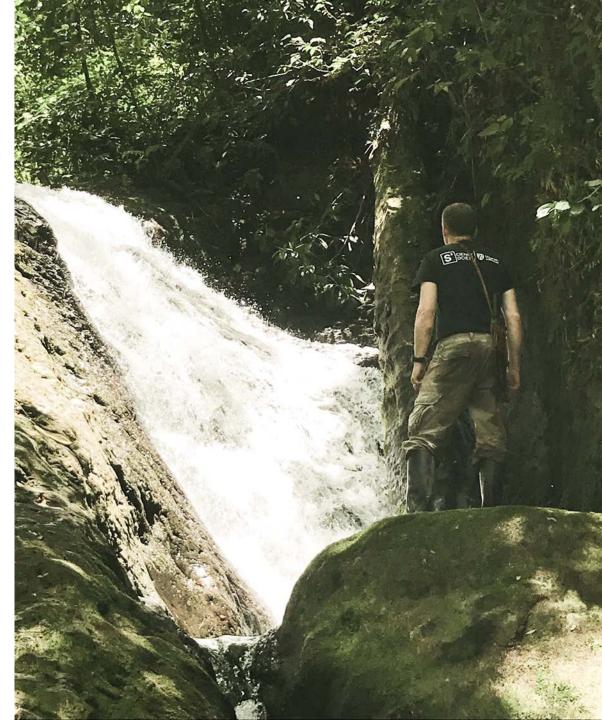


NOAA Rip Current Messaging Team

CURRENT

I saved more lives on the beach when I started going to the jungle









Texas A&M University Soltis Center

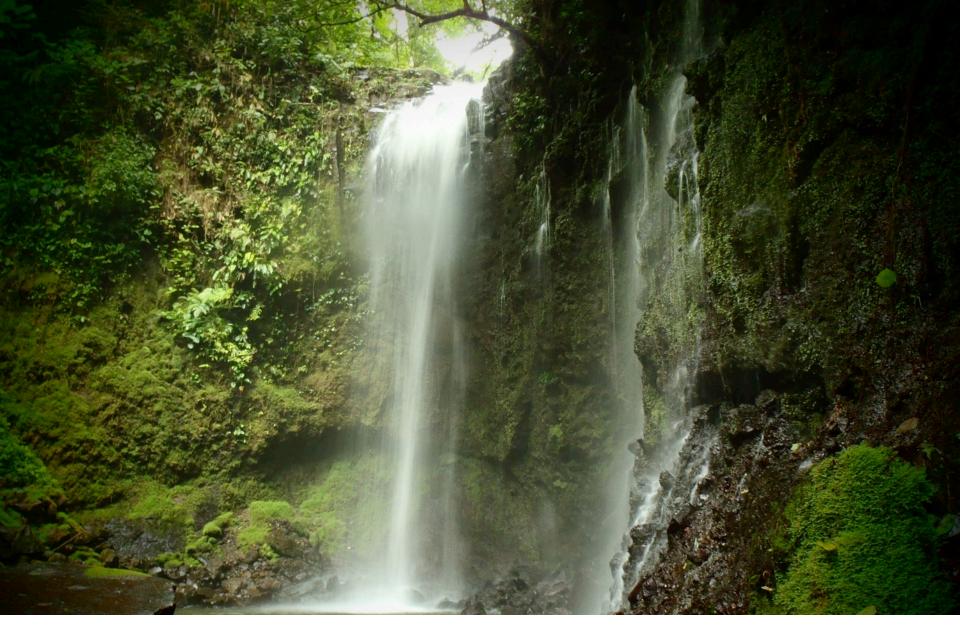
















NSF Research Experience for Undergraduates



Playa Cocles, Costa Rica















Lifeguarding Association

Cas Banders

HOR

ATM









Media



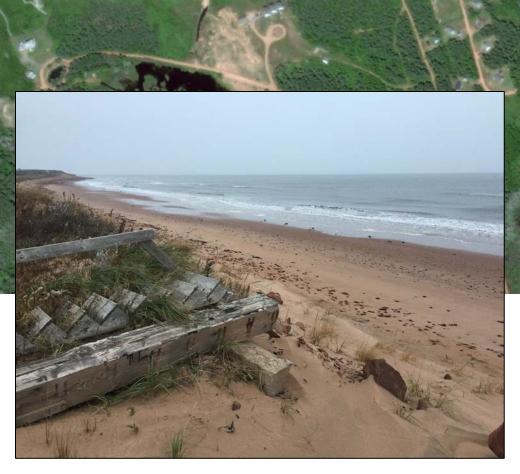
Charlottetown mother advises extra caution swimming after getting caught in rip current with son

'I was so concerned about my little boy'

Gail Harding - CBC News - Posted: Jul 23, 2017 6:14 PM AT | Last Updated: July 25, 2017









N.B. man drowns in St. Margarets, P.E.I. after being caught in high surf conditions

RCMP urge caution when swimming in high surf conditions

Gall Harding - CBC News - Posted: Jul 23, 2017 11:15 AM AT | Last Updated: July 23, 2017

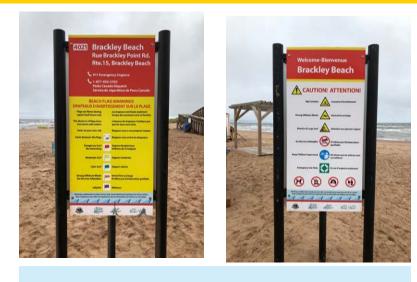


New Brunswick man drowned after being caught in the high surf on P.E.I.'s north shore. (Kevin Yarr/CBC)





PEI Rip Current Advisory Team







Connaissez les Be CoastSmart. risques côtiers. LES COURANTS **RIP CURRENTS** can D'ARRACHEMENT drag you out to sea peuvent vous emporter dans la mer FUIT Rip currents are powerful, fast-moving Les courants d'arrachement, currents that can pull you away rapides et puissants, entraînent les from shore. Do not swim against nageurs loin des côtes. Ne nagez the current. pas contre le courant. Did you know that even in moderate Saviez-vous que même quand la surf, a rip current can move 1.5 force des vagues est modérée, un meters/second? courant d'arrachement peut parcourir 1,5 mètre/ seconde. Si un courant d'arrachement Caught in a rip current? vous entraîne : Stay Calm. Attract Attention. Conserve Energy Restez calme. Tentez d'attirer attention. Conservez votre energie Tread Water. Waves can assist you back to shore Nager sur place. Les vagues vous aiderons a regagner la rive. If that doesn't work, swim parallel to shore out of the current-toward Si ça ne marche pas, nagez parallelement au rivage pour sortir du courant-vers les vagues. the breaking waves When in doubt, don't go out! Si vous avez des doutes restez sur la terre ferme. Never swim alone · Ne vous baignez jamais seul. Observe surf conditions. · Étudiez la force des vagues et suivez Follow lifeguard advice. les conseils des sauveteurs. If surf is present, beware of rip currents · S'il y a des vagues, faites attention aux Rip currents may have calmer water with courants d'arrachement. fewer breaking waves · Les courants d'arrachement on They can be found between sandbars l'apparence de zone d'eau calmes out Swim between the red and yellow flags se forment peu de vagues. · On les trouve entre des barres de sable. · Baignez-vous entre les drapeaux rouges et jaunes.

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"That, to me, is one of the most important aspects of life: That we can choose, day after day, week after increasingly hectic week, to share whatever we know with anyone who asks. That little bit we can do — one-to-one — may be large in someone else's life. And that's just ... cool."

Jennifer Pierce, University of Iowa





The Conversation



Q. Search analysis, research, academic

Recent studies suggest that tourists believe that beach access points and resorts are located adjacent to safe swimming areas, but that isn't always true. (Shutterstock)

THE CONVERSATION



COVID-19 Arts Business + Economy Culture + Society Education Environment + Energy Health Politics Science + Technology

En français



A lifeguard keeps watch over a packed beach in Huntington Beach, Calif., on June 28, when the number of new cases of COVID-19 in the state have been climbing. (AP Photo/Marcio Jose Sancher)



The easing of physical distancing restrictions can't come soon enough for those tired of self-isolation, and for many the beach represents a welcome therapy after an extended time indoors and alone.

In Australia, <u>popular beaches in Sydney</u>, including the iconic Bondi Beach, were completely closed to public access during the government-imposed lockdown period. When they reopened under restricted conditions in late April (fall in the

Authors



Chris Houser Professor of Earth and Environmental Science, and Dean of Science, University of Windsor



Rob Brander Professor, UNSW



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Having to cope with COVID-19 rules could make people reckless on beach

CBC News · Posted: Jul 17, 2020 6:00 AM AT | Last Updated: July 17



Swimming in the P.E.I. National Park was prohibited due to dangerous surf conditions two da (John Robertson/CBC)



COVID-19: How self-isolation fatigue may lead to more beach drownings this summer

The easing of physical distancing restrictions can't come soon enough for those tired of self-isolation, and for many the beach represents a welcome therapy after an extended time indoors and alone



The Weather Network

How COVID-19 fatigue can lead to an increase in summer drownings

The easing of physical distancing restrictions can't come soon enough for those tired of self-isolation, and for many the beach represents a welcome therapy after an extended time indoors and alone.







Don't be Afraid



WINDSOR STAR

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Local News

UWindsor prof worries more beach goers could lead to more drownings

Mary Caton

Jul 09, 2020 • Last Updated 17 days ago • 3 minute read



The media will occasionally get your story wrong



Machine learning analysis of lifeguard flag decisions and recorded rescues

Beach users may be discounting lifeguard warnings if the flag colour is not consistent with how they perceive the surf hazard or the regional forecast

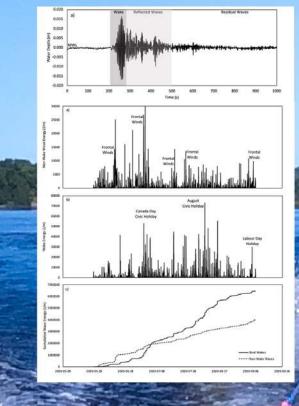
Don't stick your head in the sand: listen to lifeguards and pay attention to warning flags and signs!







Relative importance of recreational boat wakes on an inland lake



Recreational boat wakes represent a significant source of wave energy on inland (cottage) lakes

> Chris Houser, Alex Smith, Jamie Lilly Lake and Reservoir Management, *In press*

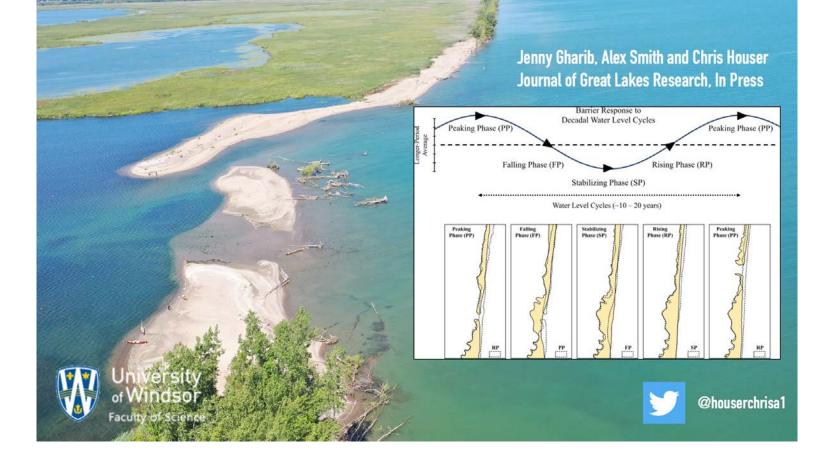
University of Windsor



@houserchrisa1

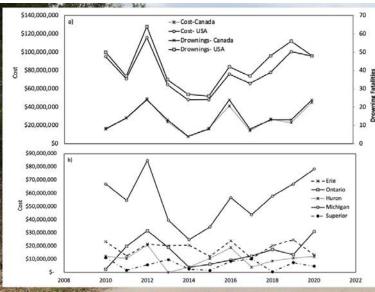


Barrier Beaches and Breaches: A new model of barrier breaching in non-tidal environments





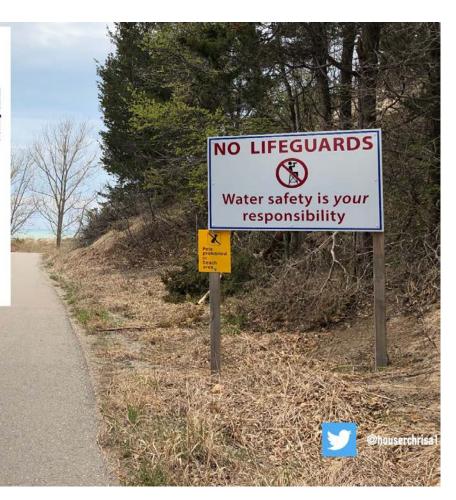




Surf-related drowning fatalities cost \$1.1 billion (USD) between 2010 and 2020 in the Great Lakes Region



University of Windsor Faculty of Science







Be Visible

Narration J.V. Martin

Rip Current Scientist and Content Consultant Professor Rob Brander, UNSW Sydney

Great Lakes Rip Current Science Professor Chris Houser, University of Windsor

■ RIP CURRENT RESCUE FULL ONLINE





Word of Caution

Some will believe that promotion is unbecoming as a faculty member

Some will be jealous

Understand the culture of your department

Take all advice with a grain of salt





Integrate Teaching and Research

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CS.



MY P

HQP and Research Success

Reputation

Enrollment

Budget



Make Your Research Matter

Dr. Chris Houser Dean of Science

AVARD & OT

