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SOME SUN High: 66 Low: 47 » PAGE C6

Marin Independent Journal

Saturday, April 20, 2019 \$1.50 FACEBOOK.COM/MARINIJFAN TWITTER.COM/MARINIJ **marinij.com**



COURTESY OF MONTEREY BAY WHALE WATCH
A pod of about 30 killer whales from the Pacific Northwest swims in Monterey Bay in March.

Great white sharks flee when killer whales swim by, research at Farallon Islands reveals

By Paul Rogers
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Ever since the 1975 movie "Jaws," great white sharks have been considered the most fearsome predators in the ocean. But new research published Tuesday shows that may not be the case.

When great whites hunting for seals near the Farallon Islands off San Francisco encountered killer whales, known as orcas, swimming by, they immediately fled, swimming long distances to get away, and didn't return until the following year, according to a study by researchers at the Monterey Bay Aquarium, Stanford University and Point Blue Conservation Science in Petaluma.



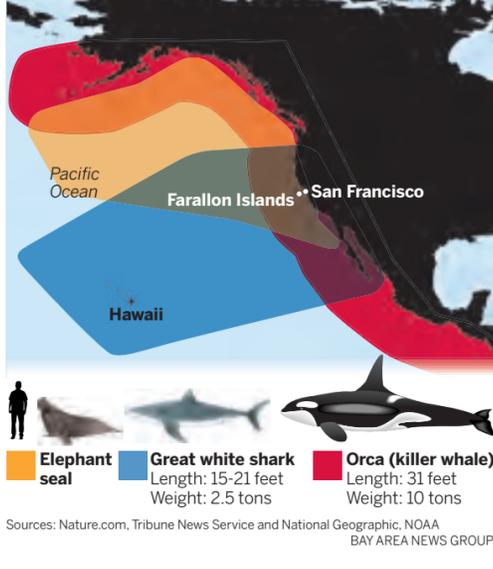
RYAN PIERSE — GETTY IMAGES
A great white shark swims in Shark Alley near Dyer Island in Gansbaai, South Africa.

"After orcas show up, we don't see a single shark," said Scot Anderson, a white shark expert at the Monterey aquarium.

SHARKS » PAGE 2

WHO RULES THE OCEANS?

New research shows great white sharks flee when killer whales are near. The winners? Elephant seals, which are preyed upon by the sharks. Territories of the three animals:



INTERSTATE 580

Caltrans to study shelf life of decks

San Rafael bridge peril gets 'fast-track' priority

By Will Houston
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A series of studies could determine how many years the Richmond-San Rafael Bridge has left until its decks would be replaced.

State transportation agencies are set to kick off a \$300,000 study next week to analyze the condition of the bridge decks. The study will be one part of a larger assessment headed by the Bay Area Toll Authority and Caltrans of several of the Bay Area's state-owned bridges. The Richmond-San Rafael Bridge will be first in line following recent incidents of concrete falling from the upper deck.

"Beyond 10 years, we have identified that there likely will be a need to replace the decks on the Richmond-San Rafael Bridge," said John Goodwin, spokesman for the Metropolitan Transportation Commission. "This analysis ... will, one, confirm that, yes, this is work that will need to be done. Right now it's just an expectation based on the age of the structure."

Part of the reason the 5.5-mile bridge is being prioritized is because of several incidents of concrete falling from the upper deck onto the lower deck in the past few months. The first incident on Feb. 7 damaged one car and closed the bridge for several hours.

The cause was determined to be a failed expansion joint, which prompted a \$9 million project by Caltrans to replace 31 expansion joints on the upper deck and more on the lower deck planned for later this year.

Construction work has since caused more con-

BRIDGE » PAGE 4

SPECIAL COUNSEL PROBE

Democrats file subpoena to get Mueller report

By Lisa Mascaro
The Associated Press

WASHINGTON » The chairman of the House Judiciary Committee issued a subpoena Friday for special counsel Robert Mueller's full report as Democrats intensified their investigation of President Donald Trump, but leaders stopped short of liberal demands for impeachment proceedings.

+ Inside: Trump rips aides who talked to investigators. PAGE A6

House Speaker Nancy Pelosi has insisted on a methodical, step-by-step approach to the House's oversight of the Trump administration, and she refuses to consider impeachment without public support, including from Republicans, which seems unlikely. But in light of Mueller's findings, Democratic leaders are under mounting pressure from the party's rising stars, deep-pocketed donors and even a presidential contender to seize the moment as a jumping-off point for trying to remove Trump from office.

Speaking Friday in Belfast as Pelosi wrapped

REPORT » PAGE 6

CANNABIS

Corporations embrace 420 marijuana holiday

By Alex Veiga
The Associated Press

LOS ANGELES » Potheads have for decades celebrated their love of marijuana on April 20, but the once counter-culture celebration that was all about getting stoned now is so mainstream Corporate America is starting to embrace it.

No, Hallmark doesn't yet have a card to mark "420." But many other businesses inside and outside the multibillion-dollar cannabis industry are using April 20, or 4/20, to roll out marketing and social media messaging aimed at connecting with consumers driving the booming market.

On Saturday, Lyft is offering a \$4.20 credit on a single ride in Colorado and in select cities in the U.S. and Canada. Carl's Jr. is using a Denver restaurant to market a hamburger infused with CBD, a non-intoxicating molecule found in cannabis that many believe is beneficial to their health.

On 4/20 last year, Totino's, a maker of frozen pizza snacks, tweeted an image of a microwave and an oven with the message: "To be blunt, pizza rolls are better when baked."

"I think brands that associate themselves with cannabis kind of get that

420 » PAGE 6



RICHARD VOGEL — THE ASSOCIATED PRESS

Models in bridal dresses smoke during the Cannabis Wedding Expo in Los Angeles in January. U.S. retail sales of cannabis products jumped to \$10.5 billion last year, a threefold increase from 2017, according to an industry analyst.

RIVERSIDE
Couple get life terms for torturing their kids
David and Louise Turpin were sentenced Friday for starving and shackling 12 children in their prison-like home. PAGE A7



TELEVISION
Bestselling researcher set for Netflix debut
"Brené Brown: The Call to Courage" is a category-bending experiment for the streaming service. PAGE B5

SPORTS
Looney giving Warriors another big postseason
Golden State proved lucky in re-signing the forward after initially declining his fourth-year option. PAGE C1

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