# Three small earthquakes reported along **Oregon Coast**

Associated Press

NEWPORT — The U.S. Geological Survey reports three small earthquakes have been recorded along the Oregon Coast.

The USGS says a 3.8 magnitude quake was recorded at 7:48 a.m. Saturday about 48 kilometers west of Newport and a 2.5 magnitude quake was recorded several hours later in the same area. In between, a 1.9 magnitude shake occurred at 10:52 a.m.

Tremors were felt from Florence to Depoe Bay.

No injuries or damage were reported. Geologists say damage is not likely in earthquakes below magnitude 4.0.

# Canada glacier melt rerouted in rare case of 'river piracy'

By SETH BORENSTEIN Associated Press

WASHINGTON — Scientists have witnessed the first modern case of what they call "river piracy" and they blame global warming. Most of the water gushing from a large glacier in northwest Canada last year suddenly switched from one river to

That changed the Slims River from a 10-foot deep, raging river to something so shallow that it barely was above a scientist's high top sneakers at midstream. The melt from the Yukon's Kaskawulsh glacier now flows mostly into the Alsek River and ends up in the Pacific Ocean instead of the Arctic's Bering Sea.

It seemed to all happen in about one day — last May 26 — based on river gauge data, said Dan Shugar, a University of Washington Tacoma professor who studies how land changes.



Jim Best/University of Illinois

A close-up view in 2016 of the ice-walled canyon at the terminus of the Kaskawulsh Glacier, with recently collapsed ice blocks.

A 100-foot tall canyon formed at the day's journal Nature Geoscience. end of the glacier, rerouting the melting water, Shugar and his colleagues wrote in a study published in Mon-

The term "river piracy" is usually used to describe events that take a long time to occur, such as tens of

thousands of years, and had not been seen in modern times, especially not this quickly, said study co-author Jim Best of the University of Illinois. It's different from something like the Mississippi River changing course at its delta and it involves more than one river and occurs at the beginning of a waterway, not the end.

The scientists had been to the edge of the Kaskawulsh glacier in 2013. Then the Slims River was "swift, cold and deep" and flowing fast enough that it could be dangerous to wade through, Shugar said. They returned last year to find the river shallow and as still as a lake, while the Alsek, was deeper and flowing faster.

We were really surprised when we got there and there was basically no water in the river," Shugar said of the Slims. "We could walk across it and we wouldn't get our shirts wet. It was like a snake-shaped lake rather than a river."

# LISTINGS

Evening listings **MONDAY** 

Mo	NDA	ΥE	VENING				ia/ Seaside - L - Ch	arter Long Beach					APRIL 17		
Α		Г	6 РМ	6:30	<b>7</b> PM	7:30	8 рм	8:30	9 PM	9:30	10 PM	10:30	11 PM	11:30	
2	KATU	<b>(2</b> )	KATU News at 6		Jeopardy!	Wheel of Fortune	Dancing With the S	tars (N)	1		Quantico "Kumonk	" (N)	KATU News at 11	(:35) Jimmy Kimmel	
0			KOMO 4 News		Wheel of Fortune	Jeopardy!	Dancing With the S	tars (N)			Quantico "Kumonk	" (N)	KOMO 4 News	(:35) Jimmy Kimmel	
0	KING	<u>5</u>	NBC Nightly News	KING 5 News	KING 5 News	Evening	The Voice "Live Play	offs" (N)			Taken "Leah" (N)	, ,	KING 5 News	(:35) Tonight Show	
6	KOIN	<u>-</u>	KOIN Local 6 at 6	<b>CBS Evening News</b>	Extra	Ent. Tonight	Kevin Can Wait (N)	Man Plan (N)	Super Donuts (N)	2 Broke G. (SF) (N)	Scorpion "Strife on	Mars" (N)	KOIN 6 News @ 11	(:35) Colbert	
0	KIRO	7	KIRO 7 News	<b>CBS Evening News</b>	The Insider	Ent. Tonight	Kevin Can Wait (N)	Man Plan (N)	Super Donuts (N)	2 Broke G. (SF) (N)	Scorpion "Strife on	Mars" (N)	KIRO News	(:35) Colbert	
8 I			KGW News at 6:00				The Voice "Live Play				Taken "Leah" (N)			(:35) Tonight Show	
<b>9</b> I			Last Man Standing				Supergirl "Exodus"		PennTeller "Penn 8		KGW News at 10			Met Your Mother	
(ID)				Business (N)	PBS NewsHour		Antique "Salt Lake (				Antiques Rd. "Chic	ago (Hour Two)"	Ind. Lens "SEED: The		
			6 O'Clock News				<b>24</b> "11:00 PM - 12:0		APB "Pandora's Box		10 O'Clock News		11 O'Clock News		
							FOX 12's 8 O'Clock		FOX 12's 9 O'Clock		Family Guy	Family Guy		Cleveland Show	
							<b>24</b> "11:00 PM – 12:0		APB "Pandora's Box		Q13 News at 10			The Simpsons	
<b>20</b> 1				Family Guy				Family Guy	Family Guy		American Dad		Conan (N)		
					Last Man Standng		Modern Family	Modern Family	Q13 News at 9			Big Bang Theory		Friends	
29			(4:00) MLB Baseball I		Baseball Tonight (L		SportsCenter		SportsCenter		SportsCenter		SportsCenter		
30			(5:00) <b>30 for 30</b> "One		SportsCenter		NFL Live		Baseball Tonight (		Jalen & Jacoby	<b>30 for 30</b> "Elway to			
<b>(31)</b>					The Thundermans		NickyRickyDicky		Full House		Full House	Full House		Friends	
<b>32</b>								Good Luck Charlie			Bunk'd	Bunk'd		Jessie	
34					00, Comedy) Jesse Bra				The Twins "Happily		Baby Daddy	Baby Daddy	The 700 Club		
<u>35</u>				(:50) <b>★★★ How to</b> 1	rain Your Dragon 2		Harington, Kristen Wiig, Jay Baruchel. (:10) FXM Presents ★★★ Red Tails (2012, Action) Terr					Howard, Nate Parker,		(:50) FXM Presents	
36			To Be Announced To Be Announced The Pop Game    Mariners Access										,		
(38)				MarinersPre-game	INITR Rasepall Miam						Post-game				
<u>(39</u> )			(5:00) UFC UFC 198	C	C		MLB Whiparound (		Speak for Yourself				s on the biggest sport		
<b>43</b> 9								Cops South Park	Cops Tosh.0	Cops Tosh.0	Cops	Cops South Park	Adam Carolla Build		
44 (			American Pickers "S		Pickers "Who's the		South Park Amer. Pickers "The		American Pickers (		Tosh.0	(:35) Pawn Stars (N)	The Daily Show (N)	(:35) Pawn Stars	
46			First 48 "House of Pa		The First 48 "Shatte		First 48 "The House				Bates Motel "Visit		The First 48 "Night		
<b>47</b> 1					My 600-lb Life "Asl						Skin Tight "Sarah 8				
48			Street Outlaws		Street Outlaws: Full Throttle "From Med		My 600-lb Life "Lupe & Ashley D." Lupe h				Car Saviors (P) (N)		My 600-lb Life "Lupe & Ashley D."  Street Outlaws		
49					OriginHuman "The Writing on the Wall"								OriginHuman "Building the Future"		
50 1			(5:00) NBA Basketba			NBA Basketball Pla							NBA Basketball Playoffs		
<b>6</b>														(:10) Better Call Saul	
<b>(52)</b> (							WWE Monday Night Raw				Detter can saar (11)		(:05) Friday Night Tykes (N)		
<u>(33)</u>			Guy's Grocery Gam		Guy's Game "Big Big		Diners, Drive-Ins		Diners, Drive-Ins "	Ultimate Bacon Fest"	Help My Yelp (N)	Diners, Drive-Ins	Diners, Drive-Ins		
<b>5</b> 4			Love It or List It		Love It/List It "Mot		Love It or List It "D			New Kid on the Block"		House Hunters	TinyHouseHunters		
56			(5:00) ★★★ Fast & Furious 6 ('13, Act) Pa				★★ The Maze Runner (2014, Sci-Fi) Thomas E						ner ('14) Dylan O'Brien.		
<b>(37)</b>			Anderson Cooper 360								Anderson Cooper 360		CNN Tonight With Don Lemon		
<b>5</b> 8			Tucker Carlson Tonight						Tucker Carlson Tonight		Hannity		The First 100 Days		
<b>6</b>			Shark Tank		American Greed "Billionaire Boys Bust"						American Greed "The Surfer Slayer?"			Paid Program	
63							VanderpumpR "Reunion Part 3" 3/3 (N)		Southern Charm "Step and Release" (N)		Sweet OK (N) Sweet Home OK			VanderpumpR 3/3	
64 1	ГСМ	(64)	(5:00) ★★★ 1776 (1972, Musical) David Ford, Howard da Silva, William Daniels.			*** A Thousand Clowns ('65) Barbara Harris, Martin Balsam, Jason Robards. (:15) *** Dodsworth ('36, Rom) Rut						Chatterton, David Niv	en, Walter Huston.		
65 9	SYFY	<b>(65</b> )	(5:00) ★★ Pirates of the Caribbean: Dead Man's Chest ('06) Johnny Depp.			★★★ The Da Vinci Code (2006, Drama) Audrey Tautou, Jean Reno, Tom Hanks.							cules Kellan Lutz.		
162	RFD	162	American Rancher	Red Steagall	Horse Master	Inside Reining	Craig Cameron	Rural Eve. News	Rural America "Tai	rter Farm and Ranch"	American Rancher	Red Steagall	Product Showcase		

# 80 Work Wanted

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# **Legal Notices**

NOTICE OF SHERIFF'S SALE

On May 9, 2017, at the hour of 10:00 AM at the Clatsop County Sheriff's Office, 1190 SE 19th Street in the City of Warrenton. Oregon, the defendant's interest will be sold, subject to redemption, in the real property commonly known as: 3059 Pine Ridge Drive, Gearhart, OREGON. The court case number is 16CV21503, where DEUTSCHE BANK NATIONAL TRUST COMPANY AS TRUSTEE FOR AMERICAN HOME MORTGAGE ASSETS TRUST 2007-1 MORTGAGE-BACKED PASS-THROUGH **CERTIFICATES SERIES 2007** 

1 is plaintiff, and THE UNKNOWN HEIRS AND DEVISEES OF JOY R MERKLEY; SCOTT MERKLEY; SHAMROCK PINES **HOMEOWNERS** ASSOCIATION, INC. OCCUPANTS OF THE PROPERTY is defendant. The sale is a public auction to the highest bidder for cash or cashier's check, in hand, made out to Clatsop County Sheriff's For more information on this

sale go to: http://oregonsheriffssales.org/ http://files.co.clatsop.or.us/ccso/

Published: April 3rd, 10th, 17th

and 24th, 2017.

Need to publish a Legal Advertisement? Contact us at legals@dailyastorian.com or (503)325-3211 ext. 231 Please submit all ad information 3 days prior to the date you want it published.

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Please read your ad on the first day. If you see an error, The Daily Astorian will gladly re-run your ad correctly. We accept responsibility for the first incorrect insertion, and then only to the extent of a corrected insertion or refund of the price paid. To cancel or correct an ad, call 503-325-3211 or 1-800-

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A L E S S A P A I D A Saturday's answer 4-17

crosser 52 Stimpy's pal 54 Favorite

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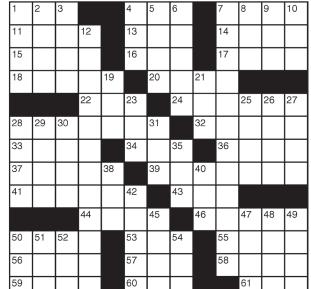
27 Wagon

28 Perry's

**29** Pop

**30** Oil

homa city 35 "Tasty!"



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