

# Researchers, fishermen concerned about low oxygen zones

## Might drive away fish

By TOM BANSE  
Northwest News Network

Scientists in Oregon and Washington state are noticing a disruptive ocean phenomenon is becoming more frequent and extreme. It involves a suffocating ribbon of low oxygen seawater over the continental shelf.

The technical term is hypoxia, sometimes called "dead zones." It's an unwelcome variation on normal upwelling of cold, nutri-

ent rich water from the deep ocean. When the dissolved oxygen drops too low, it drives away fish and can suffocate bottom dwellers such as crabs and sea worms who can't scurry away fast enough.

It seemed to marine ecologist Francis Chan like this is happening most every summer lately. So the Oregon State University researcher looked back as far as coastal oxygen readings go — to about 1950 — to see if it's always been this way.

"The ocean starting in 2000 really looked different from the ocean we had between the 1950s and

1990s," Chan said. Chan said climate change could affect oxygen levels via disrupted circulation and ocean warming. A September storm flushed away this year's low oxygen zone by churning Northwest coastal waters. But Chan described the severity of the low oxygen readings recorded this summer as among the worst ever observed locally.

"It's very much a patchy ribbon," he said from his post in Newport. Marine surveys and fixed instruments recorded notably low oxygen values from south of Yachats up past Newport.

Ten oceanographic moorings deployed by the Olympic Coast National Marine Sanctuary also found very low oxygen values between Cape Elizabeth and Cape Flattery, Washington, this summer.

"This is not a happy year for organisms out on the coast," said Jenny Waddell, the marine sanctuary's research coordinator.

Waddell added that at least one sensor dipped into anoxic conditions, "where there's literally no oxygen."

wrote marine scientist Joe Schumacker of the Quinalt Department of Fisheries in an email. "Dead fish and shellfish at various locations and times beginning near the end of July and extending through most of August."

More frequent and severe near-shore hypoxia concerns fishermen and crabbers. Commercial harvesters face reduced catches and economic losses when crabs suffocate and fish and prawns flee the oxygen-starved waters.

One of the tip-offs to Oregon State researchers of the onset of low oxygen conditions this summer was when

Oregon Department of Fish and Wildlife biologists monitoring crab populations noticed crabs dying from lack of oxygen in a research trap. Other observers noted crabs leaving the ocean to seek more oxygenated waters in coastal estuaries and bays.

Earlier this year, researchers and fishery advocates found a receptive ear at the Legislature when they presented their concerns about silent changes in the ocean. Legislators approved the creation of a new council to be co-chaired by the state Fish and Wildlife director and an Oregon State leader.

## Astoria woman faces assault charge in stabbing

By JACK HEFFERNAN  
The Daily Astorian

Bail was set at \$250,000 Monday for an Astoria woman who was arrested after allegedly stabbing her father.

Alasa Stoinich, 25, of Astoria, allegedly stabbed him three times in his upper

body just after 7 a.m. Friday morning after he told her to leave their home on the 1400 block of Irving Avenue. Anthony Stoinich, 57, was able to wrestle the knife away.

Alasa Stoinich then chased him out of the house with a golf club before her father was able to return and lock her out. Police located her at

16th Street and Franklin Avenue shortly after. Anthony Stoinich was taken to Columbia Memorial hospital, treated and released.

Alasa Stoinich has been charged with second-degree assault and attempt to commit a class B felony as she awaits a potential indictment later this week.

## Great Columbia Crossing will cause traffic delays

The Daily Astorian

The Astoria-Warrenton Area Chamber of Commerce's Great Columbia Crossing 10K event is Sunday morning, with 3,000 participants and volunteers during this once-a-year opportunity to cross the Astoria Bridge on foot.

Participants start arriving for the event at 6 a.m. Shuttle buses to the starting area begin operating by 7 a.m., creating a steady flow of vehicles on the bridge. At approximately 8:30 a.m., vehicle traffic is guided by a pilot car in alternating directions using one lane of the bridge. Due to the reduced speed on the bridge during this

time, vehicles may wait up to 45 minutes to cross. Traffic flow should be back to normal shortly after 11 a.m., when the participants are cleared from the bridge.

For information, contact the Astoria-Warrenton Chamber of Commerce at 503-325-6311 or go to www.greatcolumbiacrossing.com

## OBITUARIES

### John Thomas Drumheller Cannon Beach Aug. 15, 1953 — Sept. 17, 2017

Tom Drumheller, CEO of Escape Lodging in Cannon Beach, had just completed the largest development project of his life, The Lodge at Columbia Point in Richland, Washington, when he was diagnosed with cancer and died 17 days later.

Drumheller was known to work hard and enjoy life to the fullest, in equal measure, leaving a swath from the Wallowa Mountains to the Oregon Coast. He led an exemplary life of integrity, character and extraordinary kindness. Drumheller "walked his talk," significantly influencing the lives of his business associates, employees, friends and, of course, his beloved family. It is poignant and suiting that organizers are challenged to find a large enough venue in which to hold a celebration of Tom's life later this month.

Raised in Walla Walla, Washington, Drumheller attended Washington State University. Along with partner Patrick Nofield, Drumheller started a small hospitality company headquar-

tered in Cannon Beach, Oregon, that grew to employ nearly 600 loyal and devoted workers. Recognized for his success and expertise in the hospitality industry, he was recently inducted into the Carson College of Business Hall of Fame at Washington State.

Drumheller is survived by the love his life for over 42 years, Christy; his great source of pride, their two daughters Britney and Brook; Brook's husband, Cory Burnett, and their sons, Ethan and Kael.

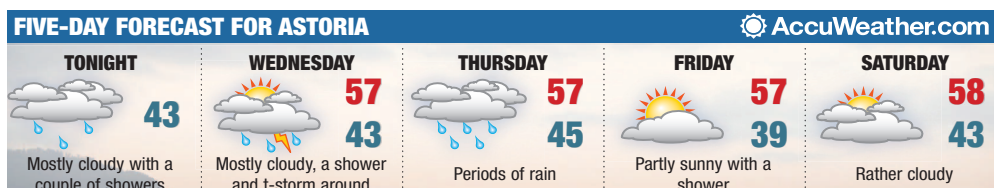
A celebration of life will be held Saturday, Oct. 28, 2017, at 11 a.m., at North Coast Family Fellowship in Seaside, Oregon.

Additionally there will be a reception gathering on Saturday, Nov. 4, 2017, at the The Marcus Whitman Hotel in Walla Walla, Washington. More details to follow.

Funeral arrangements by Hughes-Ransom Mortuary and Crematory in Astoria/Seaside. Please visit the online tribute and guest book at www.hughes-ransom.com



John Tom Drumheller



### ALMANAC

Astoria through Monday.  
**Temperatures**  
 High/low ..... 63°/41°  
 Normal high/low ..... 63°/45°  
 Record high ..... 82° in 1936  
 Record low ..... 31° in 1985  
**Precipitation**  
 Monday ..... 0.00"  
 Month to date ..... 0.40"  
 Normal month to date ..... 1.16"  
 Year to date ..... 53.61"  
 Normal year to date ..... 41.40"

### SUN AND MOON

Sunset tonight ..... 6:38 p.m.  
 Sunrise Wednesday ..... 7:27 a.m.  
 Moonrise today ..... 10:35 p.m.  
 Moonset today ..... 1:01 p.m.

### UNDER THE SKY

Tonight's Sky: The Double Clusters of Perseus is just below Cassiopeia.

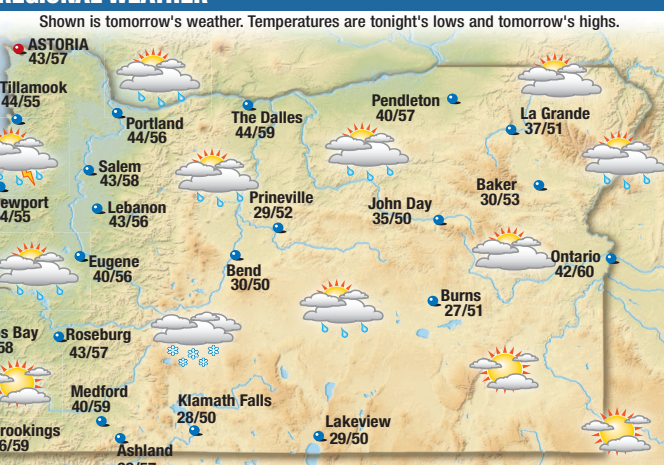
### TOMORROW'S TIDES

Astoria / Port Docks  
**Time**      **Low**  
 6:43 a.m.    7.0 ft.    12:10 a.m.    -0.4 ft.  
 6:00 p.m.    8.3 ft.    12:08 p.m.    2.5 ft.

### NATIONAL CITIES

City	Hi	Lo	W	Wed.	Hi	Lo	W
Atlanta	86	72	pc	87	69	pc	
Boston	78	59	pc	67	51	pc	
Chicago	66	57	r	64	56	r	
Denver	54	32	s	68	43	s	
Des Moines	50	44	r	60	51	pc	
Detroit	74	53	pc	62	52	r	
El Paso	73	52	s	82	59	s	
Fairbanks	43	32	sn	41	31	sn	
Honolulu	87	74	pc	88	75	t	
Indianapolis	77	60	sh	67	56	c	
Kansas City	50	40	r	60	45	pc	
Las Vegas	77	57	s	86	60	s	
Los Angeles	85	59	s	77	58	pc	
Memphis	90	57	t	75	54	pc	
Miami	89	79	pc	88	78	t	
Nashville	83	66	t	78	53	pc	
New Orleans	87	74	pc	88	73	pc	
New York	80	63	pc	72	57	r	
Oklahoma City	60	40	pc	67	48	s	
Philadelphia	83	64	pc	75	62	r	
St. Louis	76	51	t	67	56	c	
Salt Lake City	68	47	s	75	44	pc	
San Francisco	74	53	s	70	52	pc	
Seattle	58	44	pc	56	43	sh	
Washington, DC	84	68	pc	74	64	r	

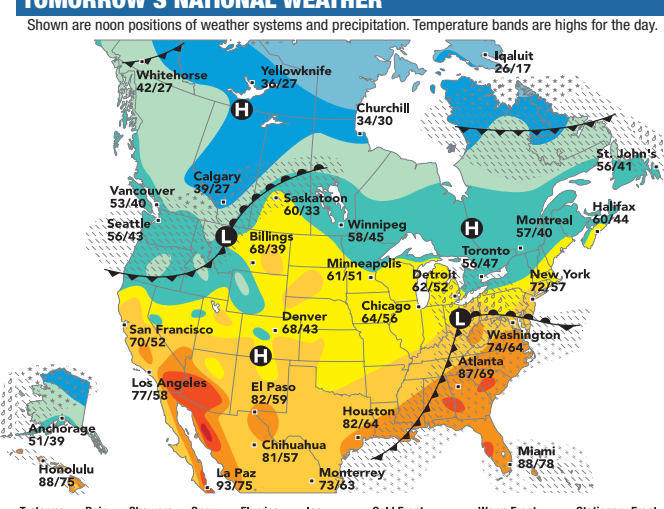
### REGIONAL WEATHER



### REGIONAL CITIES

City	Today	Hi	Lo	W	Wed.	Hi	Lo	W
Baker City	65	30	pc	53	25	c		
Bend	64	30	pc	50	27	sh		
Brookings	62	46	s	59	44	pc		
Eugene	62	40	pc	56	40	sh		
Ilwaco	57	45	c	57	47	t		
Klamath Falls	66	28	pc	50	20	pc		
Medford	72	40	pc	59	37	pc		
Newberg	59	43	pc	57	43	sh		
Newport	57	44	c	55	44	t		
North Bend	61	45	c	59	45	c		
Olympia	58	38	pc	56	38	sh		
Pendleton	68	40	pc	57	40	c		
Portland	59	44	pc	56	44	sh		
Roseburg	64	43	pc	57	41	c		
Salem	62	43	sh	58	43	sh		
Seaside	57	44	c	57	46	t		
Spokane	62	38	pc	50	35	c		
Springfield	61	42	sh	58	42	sh		
Vancouver	58	45	pc	56	45	sh		
Yakima	65	34	pc	59	31	c		

### TOMORROW'S NATIONAL WEATHER



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## ON THE RECORD

- DUII**
  - At 11:54 p.m. Thursday, Jerome Ustby, 65, of Astoria, was arrested by the Clatsop County Sheriff's Office on state Highway 202 and charged with driving under the influence of intoxicants.
  - At 11:18 p.m. Friday, Brianna Louise Lorenzana, 24, of Warrenton, was arrested by the Warrenton Police Department on the 1000 block of Pacific Drive and charged with DUII, assault on a public safety officer, aggravated harassment and refusing a breath test. Lorenzana allegedly kicked an officer in the chest as he attempted to secure her seat belt in the
- police car. She then allegedly bit his head and hand before spitting on him.
- At 1:09 a.m. Friday, Michael Graser, 49, of Seaside, was arrested by the Astoria Police Department near the Safeway gas station on Marine Drive and charged with DUII. His blood alcohol content was 0.17 percent.
- At 1:23 a.m. Saturday, Johnathan Clyde Everson, 34, of Astoria, was arrested by the Astoria Police Department on the 600 block of Olney Avenue for DUII. His blood alcohol content was 0.17 percent.
- At 2:39 a.m. Sunday, Kalyn Rae Knudsvig, 33, of Gearhart, was arrested by the

## DEATHS

- Oct. 7, 2017**  
**GARNETT**, Beth A., 50, of Seaside, died in Seaside. Ocean View Funeral & Cre-
- Oct. 6, 2017**  
**HOGAN**, James Ever-

## PUBLIC MEETINGS

- TUESDAY**  
**Warrenton Urban Renewal Agency**, 5:15 p.m., work session, City Hall, 225 S. Main Ave.  
**Warrenton City Commission**, 6 p.m., City Hall, 225 S. Main Ave.  
**Clatsop Community College Board**, 6:30 p.m., Columbia Hall Room 219, 1651 Lexington Ave.
- Lewis & Clark Fire Department Board**, 7 p.m., main fire station, 34571 Highway 101 Business.
- WEDNESDAY**  
**Clatsop County Board of Commissioners**, 6 p.m., Judge Guy Boyington Building, 857

## LOTTERIES

- OREGON**  
**Monday's Pick 4:**  
**1 p.m.:** 7-1-9-7  
**4 p.m.:** 4-9-3-7  
**7 p.m.:** 4-5-5-4  
**10 p.m.:** 4-6-5-1  
**Monday's Lucky Lines:** 01-07-10-16-17-24-25-31  
 Estimated jackpot: \$16,000
- Monday's Megabucks:** 11-13-16-22-34-38  
 Estimated jackpot: \$8.4 million
- WASHINGTON**  
**Monday's Daily Game:** 1-4-2  
**Monday's Hit 5:** 13-15-28-29-35
- Estimated jackpot: \$360,000  
**Monday's Keno:** 06-10-13-14-23-43-45-46-48-50-54-55-56-57-59-61-65-67-68-77  
**Monday's Lotto:** 03-04-12-25-33-34  
 Estimated jackpot: \$1.3 million  
**Monday's Match 4:** 16-17-19-20

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