

Arctic researchers to study wind effects on marine life

By DAN JOLING
Associated Press

ANCHORAGE, Alaska — A federal research vessel will launch on a cruise this week to study how Beaufort Sea wind affects plant and animal life in a changing Arctic Ocean.

The Sikuliaq, owned by the National Science Foundation and operated by the University of Alaska Fairbanks, will depart Friday from Nome for the trip through the Bering Strait to waters on and off the continental shelf in the Beaufort.

Climate warming in recent decades has resulted in far less summer seasonal ice in

the Beaufort, which stretches from the northeast coast of Alaska across Canada. East winds that formerly blew over sea ice now blow over open water, said Steve Okkonen, a physical oceanographer at the University of Alaska Fairbanks.

Wind drives water at the surface of the shallow continental shelf, at depths of about 300 feet, north to water off the shelf, which drops to depths of more than 10,000 feet.

The result is a phenomenon called "upwelling." Deep, cold water rises toward the surface carrying large concentrations of plankton, which scientists hypothesize will



AP Photo/Dan Joling

The National Science Foundation research ship Sikuliaq will depart for the Arctic Ocean this week to study how changing winds affect plant and animal species.

attract fish, especially Arctic cod. Large numbers of cod in turn attract beluga whale and

seabirds that prey on cod. Aerial surveys have shown belugas congregating on the

shelf break, said Carin Ashjian, a senior scientist at Woods Hole Oceanographic Institution, who will serve as chief scientist on the cruise.

"What we hope to do, and what we're planning to do, is to basically document and describe how the physical forcing of the wind produces this favorable feeding environment for the beluga whales," she said. "It's one thing to say, 'Oh, they can find food along this shelf break.' But we want to find out why they find their food along the shelf break, with numbers."

Upwelling events in the Beaufort are projected to increase as sea ice continues

to trend downward, Okkonen said. Last year the minimum sea ice for 2016 was recorded Sept. 10, when ice covered 1.6 million square miles, tied with Sept. 18, 2007, for the second lowest minimum on records since satellite measurements began in 1978. The lowest year on record was Sept. 17, 2012, according to the National Snow and Ice Data Center at the University of Colorado, when sea ice fell to 1.31 million square miles.

Wind covering a greater distance over open water becomes a greater force on the ocean.

"We have a much bigger fetch," Okkonen said.

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The City of Seaside is accepting applications for a regular full-time Water Department Tech 1 position @ \$3,365 month SDOQ, + benefits.

Applications and position descriptions are available at Seaside City Hall, 989 Broadway Seaside, Oregon, or by website at www.cityofseaside.us.

Deadline for submitting is **5:00 PM on Thursday, August 31st, 2017.** EOE.

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95 Schools & Education

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Please come in person to The Daily Astorian office at 949 Exchange St, Astoria OR 97103 to pick up more information.

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The Federal Trade Commission prohibits telemarketers from asking for or receiving payment before they deliver credit repair services, advance fee loans and credit, and recovery services. If you are asked to render payment before receiving any of the preceding services, please contact the Federal Trade Commission at: **1-877-382-4357**

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All real estate advertising in this newspaper is subject to the Fair Housing Act which makes it illegal to advertise "Any preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, or national origin, or an intention to make any such preference, limitation or discrimination." Familial status includes children under the age of 18 living with parents or legal custodians; pregnant women and people securing custody of children under 18. This newspaper will not knowingly accept any advertising for real estate which is in violation of the law. Our readers are hereby informed that all dwellings advertised in this newspaper are available on an equal opportunity basis. To complain of discrimination call HUD at (1800)669-9777. The toll free telephone number for the hearing impaired is (1800)927-9275.

215 Apartments, Furnished

Serene Cannon Beach Studio in Forest setting with vaulted ceiling's and fireplace. Small kitchenette, walk to town. Beautifully, fully appointed, just move in! \$1000 Per month, thousand dollar deposit. **425-922-6329.**

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Artistic Cannon Beach Vacation Home available for longer-term rental.

Beautifully appointed four bedroom main home with studio apt. Walk to town and beaches, peekaboo view. \$3500 month.

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Legal Notices

AB6449 Notice of Planning Commission Public Hearing

On Tuesday, September 5, 2017, at 7:00 p.m., a hearing will be held by the Seaside Planning Commission at Seaside City Hall, 989 Broadway. They will be reviewing the following request:

17-055CU: A conditional use request by **Rick & Lisa Sauve**, that will allow the sales and rental of motorized bikes at 407 Broadway (T6, R10, 21AC TL: 1000). The property is zoned resort commercial (C-2). Although the rental of non-motorized bikes is permitted outright in the zone, motorized bicycle rental requires Planning Commission approval. The review will be conducted in accordance with Article 6 and Article 10 of the Seaside Zoning Ordinance that establishes the review criteria and procedures applicable to the request.

17-057VRD is a conditional use request by **Pamela Kelley-Dockter & Paul Dockter** for a **three (3) bedroom Vacation Rental Dwelling Permit** with a maximum occupancy of not more than **nine (9)** people over the age of three. The property is located at **321 Avenue U (6 10 28BA TL 5101)** and it is zoned **High Density Residential (R-3)**. The review will be conducted in accordance with Article 6 and Article 10 of the Seaside Zoning Ordinance which establishes the review criteria and procedures for a Conditional Use. The specific review criterion for Vacation Rental Dwellings is included in Section 6.137 of the Ordinance.

All interested persons are invited to attend the meetings and submit oral testimony in favor or in opposition to the request. During the hearing, individuals that wish to offer testimony will be called to a microphone by the Chairman of the Planning Commission and asked to state their name and address for the record before they testify. Written testimony is also welcome and will be submitted to the Planning Commission at the time of the hearing. Comments may be delivered to the Community Development Department located at 1387 Avenue U or mailed to 989 Broadway, Seaside, Oregon 97138. A copy of the application, applicable criteria, documents, and evidence relied upon by the applicant are available for review at no charge. Likewise, a staff report will be available for inspection 7 days prior to the hearing. These materials can be reviewed at the Community Development Department. Copies of these materials will be provided at a reasonable cost.

Failure to raise an issue at the meeting, in person, or in writing, or failure to provide sufficient details to afford the Planning Commission and the applicant an opportunity to respond to the issue may preclude appeal to the Land Use Board of Appeals on that issue. For more information, contact Seaside Planning Director, Kevin Cupples at (503) 738-7100. **Published: August 23rd, 2017**

Legal Notices

AB6438 Notice to Interested Persons

In the Circuit Court of the State of Oregon for the County of Clatsop, Probate Department

Estate of Velona Jane Hoyer, deceased (Case No. 17PB06117)

Notice is hereby given that Sheila Hoyer has been appointed as the personal representative of the above estate. All persons having claims against the estate are required to present them to the undersigned personal representative in care of the undersigned attorney at: 6500 SW Macadam Ave., Ste. 300, Portland, OR 97239-3565 within four months after the date of first publication of this notice, as stated below, or such claims may be barred.

All persons whose rights may be affected by the proceedings in this estate may obtain additional information from the records of the Court, the personal representative or the attorney for the personal representative.

Dated and first published August 16, 2017

Sheila Hoyer, Personal Representative
Shannon Conley, Law Offices of Nay & Friedenberg Attorney for Personal Representative
Portland, OR 97239-3565
Published: August 16th, 23rd, and 30th, 2017

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THE DAILY ASTORIAN

CRYPTOQUIP

8-23 CRYPTOQUIP

EBB KNZ SZJSBZ FG KNZ
HJEYVYJQ EOOZQHBM NEV
HZRJQZ OJ OFBZGK KNEK MJI
RJIBV NZEY E SZG VYJS.

Yesterday's Cryptoquip: IF A SHUTTER HAS EVERY SLAT ORNAMENTED WITH SOME TRUMPET-SHAPED FLOWERS, IS IT LILY-LOUVERED?

Today's Cryptoquip Clue: B equals L