



Katie Frankowicz/The Daily Astorian

Volunteers led by naturalist Mike Patterson, center, look for birds at Lewis and Clark National Historical Park in February.

Birds: Park includes habitats that are ‘locally rare’

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“It’s good news,” said Chris Clatterbuck, chief of resource management at Lewis and Clark. Bird populations are one of the National Park Service’s key vital signs, monitored as a way to determine the health of a park’s habitat. “So just like a doctor would monitor blood pressure or your temperature, land bird populations are one of those things that we monitor,” Clatterbuck said. Though several bird species were not doing as well and there are still serious questions about how climate change might impact even robust bird populations in the long term, researchers are encouraged by what they have seen over the years.

‘Locally rare’ Lewis and Clark is home to estuaries and freshwater wetlands, as well as coastal and upland forests — habitats that are “locally rare,” according to the report. These pockets of unique habitat provide a sort of oasis to a variety of birds and are important to conserve cer-

tain bird populations. “The different habitats attract a great mix of birds and we often find species in this park that we rarely see in the other areas we survey,” Mandy Holmgren, a biologist with The Institute for Bird Populations, who has monitored birds at Lewis and Clark, said in a statement. So what’s next? To Ray, some of the logical follow-up actions at Lewis and Clark would be to look at why some species — such as the small songbird Hutton’s vireo or the colorful Northern flicker, a member of the woodpecker family — are declining. These birds seem to be experiencing a more general decline across the Pacific Northwest, Ray said, “and it is not yet clear whether these parks are providing suitable habitat for these species.” Continued monitoring — and longer data sets — will also be necessary if the parks want to more clearly judge the effects of climate on bird populations. Lewis and Clark rangers and volunteers partici-

pate in the Great Backyard Bird Count every year, hosting a range of activities, from birdwatching hikes to lectures, to get the public involved in spotting birds. But few of the park’s restoration and habitat enhancement projects have been bird-centric, Clatterbuck said. Still, wetland restoration projects, primarily intended to help endangered salmon, end up benefiting a host of other species, including birds that feed or nest in wetland areas. Recently, the park finished up thinning work as part of forest restoration and purposefully created snags — standing dead or dying trees — to enhance bird habitat. “We’re hoping that will provide some good woodpecker habitat,” Clatterbuck said. **Listening Lab** The park has also begun to track birds along its slice of the Pacific Flyway, a major migration route from Patagonia to Alaska. Millions of birds travel this route every year and Carla Cole, natural resource program manager at the park,

hopes to capture them on sound recordings as they wing by. Microphones, set up at two different locations at Lewis and Clark, are turned on during the spring migration. The Colorado State University Listening Lab later analyzes the audio files. Sound recordings are a low-cost way for scientists to collect information about what species are present in an area. Cole was first inspired to experiment with bioacoustic monitoring after listening to an episode of “Science Friday,” a weekly public radio show and podcast, in 2013. She felt it could be an easy — and fascinating — way to detect species and measure the timing of the spring migration. Several other national parks have since joined Lewis and Clark, but Cole hopes to get even more parks along the West Coast involved. “Our primary research question is the timing of the spring migration, and how this may vary over time, particularly with climate change,” she said.

Academy: Received ‘a surge of support’ after news of the potential closure broke

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The financial situation was due to lower-than-expected enrollment and unpaid pledges. After news of the potential closure broke, the academy received “a surge of support,” said Amy Fredrickson, the school’s executive director. The school began receiving many of the missing pledges — including a \$33,000 pledge that originally was not going to be paid until the end of the school year. A surprise \$20,000 donation from Tim and Rhonda Snider, who recently moved to Cannon Beach, also helped, Fredrickson said. The family has also pledged to match up to \$20,000 in additional donations until June. The donations have helped the academy come “very, very close” to addressing the shortfall, Fredrickson said. “I’m never surprised by the support of the community,” she said. “We’ve

talked about overcoming hurdles over and over again, and I think that’s just going to be our thing, I think.” Consistent fundraising will continue to be critical to make the charter school financially sustainable. With the last of the pledges from previous years being paid out this year, the academy’s top focuses will be on boosting enrollment and organizing more ways to fundraise throughout the year. “Those are the two things that will keep us here,” Fredrickson said. More fundraising will be critical as the academy, which has 31 students, hopes to expand to 50 next year. It will be the first year the school will offer kindergarten through fifth grade. The school opened in 2017. “We are so grateful that (the community) sees this as an investment in the community and in the kids’ future,” Fredrickson said.



Brenna Visser/The Daily Astorian

Donations have helped save the Cannon Beach Academy.

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THE DAILY ASTORIAN **TV SCHEDULE** Evening listings TUESDAY

TUESDAY EVENING												APRIL 2	
A	L	6 PM	6:30	7 PM	7:30	8 PM	8:30	9 PM	9:30	10 PM	10:30	11 PM	11:30
2 KATU	2	News (N)	News (N)	Jeopardy! (N)	Wheel of Fortune	The Goldbergs	Modern Family	Black-ish (N)	Splitting Up (N)	The Rookie "Homefront" (N)	News (N)	(35) Jimmy Kimmel	
5 KOMO	4	KOMO 4 News at 6pm (N)	KING 5 News (N)	Jeopardy! (N)	Evening	The Goldbergs	Modern Family	Black-ish (N)	Splitting Up (N)	The Rookie "Homefront" (N)	KOMO4News (N)	(35) Jimmy Kimmel	
6 KING	5	NBC News (N)	KING 5 News (N)	Evening	Extra	Games "Say What Women Want" (N)	This Is Us "Her" (N)	FBI "Most Wanted" (N)	NCIS: New Orleans "In Plain Sight" (N)	KING 5 News (N)	(35) Tonight Show		
9 KOIN	7	News (N)	Evening News (N)	Ent. Tonight (N)	Ent. Tonight (N)	NCIS "Mona Lisa" (N)	FBI "Most Wanted" (N)	NCIS: New Orleans "In Plain Sight" (N)	KIRO 7 News (N)	KOIN News/ 11 (N)	(35) Colbert		
12 KOPB	12	KIRO 7 News (N)	Evening News (N)	Ent. Tonight (N)	Ent. Tonight (N)	NCIS "Mona Lisa" (N)	FBI "Most Wanted" (N)	NCIS: New Orleans "In Plain Sight" (N)	KIRO 7 News (N)	KOIN News/ 11 (N)	(35) Colbert		
3 KGW	7	KGW News at 6:00 p.m. (N)	Tonight Cassidy	Inside Edition	Games "Say What Women Want" (N)	This Is Us "Her" (N)	Roswell "Smells Like Teen Spirit"	The Central Park Five Black and Latino teens were wrongly convicted of rape.	10 O'Clock News (N)	News (N)	Friends	Two and a Half	Two and a Half
9 KRCW	3	Modern Family	Modern Family	The Goldbergs	The Goldbergs	The Flash "Cause and XS"	Roots "The Eye of the Beholder" (N)	Mental Samurai "Week Three" (N)	9pm Prime News (N)	Big Bang Theory	Family Guy	American Dad!	The Game
10 KOPB	10	Ask-Old House	Business (N)	PBS NewsHour (N)	Chef "Something to Trifle With" (N)	8pm Prime News (N)	Chef "Something to Trifle With" (N)	Mental Samurai "Week Three" (N)	Q13 NEWS AT 10 (N)	Big Bang Theory	The Last O.G. (N)	The Last O.G.	Conan
12 KPTV	12	6 O'Clock News (N)	Family Feud	Family Feud	Chef "Something to Trifle With" (N)	8pm Prime News (N)	Chef "Something to Trifle With" (N)	Mental Samurai "Week Three" (N)	Q13 NEWS AT 10 (N)	Big Bang Theory	The Last O.G. (N)	The Last O.G.	Conan
18 KPDX	18	Mike & Molly	Mike & Molly	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Two and a Half	Two and a Half
9 KCPQ	13	Modern Family	Modern Family	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Two and a Half	Two and a Half
20 TBS	20	Family Guy	Family Guy	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Two and a Half	Two and a Half
5 KZJO	22	Black-ish	Black-ish	Mom	Modern Family	Mom	Modern Family	Q13 News at 9 (N)	Q13 News at 9 (N)	Big Bang Theory	Big Bang Theory	Two and a Half	Two and a Half
29 ESPN	29	NCAA Basketball NIT Tournament Site: Madison Square Garden -- New York City, N.Y. (L)	Sports Climbing	UFC Top Ten (N)	SpongeBob	SpongeBob	SpongeBob	SpongeBob	SpongeBob	SportsCenter Scott Van Pelt presents the day in sports. (N)	SportsCenter (N)	SportsCenter (N)	SportsCenter (N)
30 ESPN2	30	Cornhole ACL National (N)	The Loud House	Henry Danger	Sydney to the Max	Sydney to the Max	Sydney to the Max	Sydney to the Max	Sydney to the Max	UFC Main Event (N)	UFC Main Event (N)	Now or Never (N)	UFC UFC 212
31 NICK	31	The Loud House	The Loud House	Henry Danger	Sydney to the Max	Sydney to the Max	Sydney to the Max	Sydney to the Max	Sydney to the Max	The Office	The Office	Friends	Friends
32 DISN	32	Coop & Cami	Coop & Cami	Raven's Home	Raven's Home	Raven's Home	Raven's Home	Raven's Home	Raven's Home	Sydney to the Max	Coop & Cami	Andi Mack	Sydney Max
34 FAM	34	(5:30) ★★ Just Go With It (11) Jennifer Aniston, Brooklyn Decker, Adam Sandler.	(5:30) ★★ Just Go With It (11) Jennifer Aniston, Brooklyn Decker, Adam Sandler.	Good Trouble "Vitamin C" (N)	Good Trouble "Vitamin C" (N)	Good Trouble "Vitamin C" (N)	Good Trouble "Vitamin C" (N)	Good Trouble "Vitamin C" (N)	Good Trouble "Vitamin C" (N)	★★ Sweet Home Alabama '02 Candice Bergen, Josh Lucas, Reese Witherspoon.	★★ Sweet Home Alabama '02 Candice Bergen, Josh Lucas, Reese Witherspoon.	The 700 Club	The 700 Club
35 FMC	35	(4:50) The Huntsman: Winter's War	(4:50) The Huntsman: Winter's War	Love Unlocked	Married at First Si.	Married at First Si.	Married at First Si.	Married at First Si.	Married at First Si.	(20) ★★ Terminator: Genisys (2015, Sci-Fi) Jason Clarke, Emilia Clarke, Arnold Schwarzenegger.	(20) ★★ Terminator: Genisys (2015, Sci-Fi) Jason Clarke, Emilia Clarke, Arnold Schwarzenegger.	(4:00) FXM Presents	(4:00) FXM Presents
36 LIFE	36	Married at First Sight	Married at First Sight	Love Unlocked	Married at First Si.	Married at First Si.	Married at First Si.	Married at First Si.	Married at First Si.	(35) Married at First Sight	(35) Married at First Sight	(35) Married at First Sight	(35) Married at First Sight
38 ROOT	38	Mariners Access	MarinersPre-game	MLB Baseball Los Angeles Angels at Seattle Mariners Site: T-Mobile Park -- Seattle, Wash. (L)	Boxing Classics	TMZ Sports (N)	Fair Game	Post-game	MLB Baseball Los Angeles Angels at Seattle Mariners	Skip and Shannon: Undisputed Opinions on the biggest sports topics of the day.	Skip and Shannon: Undisputed Opinions on the biggest sports topics of the day.	Skip and Shannon: Undisputed Opinions on the biggest sports topics of the day.	Skip and Shannon: Undisputed Opinions on the biggest sports topics of the day.
39 FS1	39	(4:30) NCAA Baseball Texas A&M at Texas (L)	MLB Whiparound (L)	★★★ Overboard (1987, Comedy) Kurt Russell, Edward Herrmann, Goldie Hawn.	The Office	The Office	Tosh.0	Tosh.0	Tosh.0	Tosh.0 (N)	Jim Jefferies (N)	The Daily Show (N)	(35) Tosh.0
43 SPIKE	43	Mom	Mom	Mom	Mom	★★★ Overboard (1987, Comedy) Kurt Russell, Edward Herrmann, Goldie Hawn.	The Office	The Office	Tosh.0	Tosh.0 (N)	Jim Jefferies (N)	The Daily Show (N)	(35) Tosh.0
44 COM	44	(15) The Office 1/2	(15) The Office "Finale" Pt. 2 of 2	(25) The Office	The Office	The Office	Tosh.0	Tosh.0	Tosh.0	(05) LostGold "Dead Giveaway" (N)	(05) LostGold "Dead Giveaway" (N)	(05) Curse Oak Island "Clue or False?"	(05) Curse Oak Island "Clue or False?"
45 HIST	45	DrLDown "The Pirates of Oak Island"	Curse of Oak Island	Curse of Oak Island	Curse of Oak Island	Curse of Oak Island	Curse of Oak Island	Curse of Oak Island	Curse of Oak Island	(05) LostGold "Dead Giveaway" (N)	(05) LostGold "Dead Giveaway" (N)	(05) Curse Oak Island "Clue or False?"	(05) Curse Oak Island "Clue or False?"
46 A&E	46	Hoarders "Patricia"	Little People "A Lot to Think About"	Little People, Big World	Little People, Big World	Little People, Big World	Little People, Big World	Little People, Big World	Little People, Big World	(05) The Toe Bro (N)	(05) The Toe Bro (N)	(05) The Toe Bro "Zombie Nail"	(05) The Toe Bro "Zombie Nail"
47 TLC	47	Little People "A Lot to Think About"	Little People, Big World	Little People, Big World	Little People, Big World	Little People, Big World	Little People, Big World	Little People, Big World	Little People, Big World	7 Little Johnstons (N)	7 Little Johnstons (N)	Little Peo. "Four Generations of Roloffs"	Little Peo. "Four Generations of Roloffs"
48 DISC	48	To Be Announced	To Be Announced	To Be Announced	To Be Announced	To Be Announced	To Be Announced	To Be Announced	To Be Announced	To Be Announced	To Be Announced	To Be Announced	To Be Announced
49 NGEO	49	The Story of God "Proof of God"	The Story of God "Beyond Death"	The Story of God "Beyond Death"	The Story of God "Beyond Death"	The Story of God "Beyond Death"	The Story of God "Beyond Death"	The Story of God "Beyond Death"	The Story of God "Beyond Death"	Lost "Warrior Pharaoh Queen" (N)	Lost "Warrior Pharaoh Queen" (N)	The Story of God "Divine Secrets"	The Story of God "Divine Secrets"
50 TNT	50	(5:00) NBA Basketball L.A. Lakers vs Oklahoma (L)	NBA Basketball Denver Nuggets at Golden State Warriors Site: Oracle Arena -- Oakland, Calif. (L)	★★★ The Expendables 2 (12) Liam Hemsworth, Jason Statham, Sylvester Stallone.	★★★ The Expendables 2 (12) Liam Hemsworth, Jason Statham, Sylvester Stallone.	★★★ The Expendables 2 (12) Liam Hemsworth, Jason Statham, Sylvester Stallone.	★★★ The Expendables 2 (12) Liam Hemsworth, Jason Statham, Sylvester Stallone.	★★★ The Expendables 2 (12) Liam Hemsworth, Jason Statham, Sylvester Stallone.	★★★ The Expendables 2 (12) Liam Hemsworth, Jason Statham, Sylvester Stallone.	★★★ The Expendables 2 (12) Liam Hemsworth, Jason Statham, Sylvester Stallone.	★★★ The Expendables 2 (12) Liam Hemsworth, Jason Statham, Sylvester Stallone.	★★★ The Expendables 2 (12) Liam Hemsworth, Jason Statham, Sylvester Stallone.	★★★ The Expendables 2 (12) Liam Hemsworth, Jason Statham, Sylvester Stallone.
51 AMC	51	(5:30) ★★ The Expendables (2010, Action) Eric Roberts, Steve Austin, Jet Li.	Law & Order: S.V.U. "Reparations"	Law & Order: S.V.U. "Bong"	WWE Super Smackdown	WWE Super Smackdown	WWE Super Smackdown	WWE Super Smackdown	WWE Super Smackdown	Miz & Mrs. (N)	Chrisley (P) (N)	(05) Modern Fam	Modern Family
52 USA	52	Law & Order: S.V.U. "Reparations"	Law & Order: S.V.U. "Bong"	WWE Super Smackdown	WWE Super Smackdown	WWE Super Smackdown	WWE Super Smackdown	WWE Super Smackdown	WWE Super Smackdown	Chopped "Chicken Challenge"	Chopped "Chicken Challenge"	Chopped "Nourish And Flourish"	Chopped "Nourish And Flourish"
53 FMC	53	Chopped	Chopped	Chopped	Chopped	Chopped	Chopped	Chopped	Chopped	One of a Kind (N)	House Hunters (N)	House Hunters (N)	House Hunters
54 HGTV	54	Fixer "Chip and Jo's Breakfast Joint"	Fixer Upper	Fixer Upper	Fixer Upper	Fixer Upper	Fixer Upper	Fixer Upper	Fixer Upper	One of a Kind (N)	House Hunters (N)	House Hunters (N)	House Hunters
56 FX	56	(5:30) Why Him? (2016, Comedy) Bryan Cranston, Zoey Deutch, James Franco.	CNN Tonight With Don Lemon	CNN Tonight With Don Lemon	CNN Tonight With Don Lemon	CNN Tonight With Don Lemon	CNN Tonight With Don Lemon	CNN Tonight With Don Lemon	CNN Tonight With Don Lemon	★★★ 22 Jump Street (2014, Action/Comedy) Jonah Hill, Ice Cube, Channing Tatum.	★★★ 22 Jump Street (2014, Action/Comedy) Jonah Hill, Ice Cube, Channing Tatum.	★★★ 22 Jump Street (2014, Action/Comedy) Jonah Hill, Ice Cube, Channing Tatum.	★★★ 22 Jump Street (2014, Action/Comedy) Jonah Hill, Ice Cube, Channing Tatum.
57 CNN	57	Cuomo Prime Time	The Ingraham Angle	The Ingraham Angle	The Ingraham Angle	The Ingraham Angle	The Ingraham Angle	The Ingraham Angle	The Ingraham Angle	Cuomo Prime Time	Cuomo Prime Time	Cuomo Prime Time	Cuomo Prime Time
58 FNC	58	Hannity	The Ingraham Angle	The Ingraham Angle	The Ingraham Angle	The Ingraham Angle	The Ingraham Angle	The Ingraham Angle	The Ingraham Angle	Hannity	Hannity	Hannity	Hannity
61 CNBC	61	Shark Tank	The Profit "An Inside Look" (N)	The Profit "An Inside Look" (N)	The Profit "An Inside Look" (N)	The Profit "An Inside Look" (N)	The Profit "An Inside Look" (N)	The Profit "An Inside Look" (N)	The Profit "An Inside Look" (N)	The Profit "An Inside Look" (N)	The Profit "An Inside Look" (N)	Paid Program	Paid Program
63 BRAV	63	Beverly Hills "Reunion, Part 2" Pt. 2 of 2	Beverly Hills "Fifty Shades of Shade"	Beverly Hills "Fifty Shades of Shade"	Beverly Hills "Fifty Shades of Shade"	Beverly Hills "Fifty Shades of Shade"	Beverly Hills "Fifty Shades of Shade"	Beverly Hills "Fifty Shades of Shade"	Beverly Hills "Fifty Shades of Shade"	Mexican Dynasties (N)	Mexican Dynasties (N)	Watch What	Beverly Hills
64 TCM	64	(5:00) Romance	★★★ Grand Hotel (32, Drama) Lionel Barrymore, Joan Crawford, John Barrymore.	★★★ Mata Hari (1932, Romance) Lewis Stone, Greta Garbo.	★★★ Mata Hari (1932, Romance) Lewis Stone, Greta Garbo.	★★★ Mata Hari (1932, Romance) Lewis Stone, Greta Garbo.	★★★ Mata Hari (1932, Romance) Lewis Stone, Greta Garbo.	★★★ Mata Hari (1932, Romance) Lewis Stone, Greta Garbo.	★★★ Mata Hari (1932, Romance) Lewis Stone, Greta Garbo.	(15) ★★ Susan Lenox: Her Fall and Rise (32) Greta Garbo.	(15) ★★ Susan Lenox: Her Fall and Rise (32) Greta Garbo.	Movie	Movie
65 SYFY	65	Movie	(4:00) ★★ 10,000 B.C. (2008, Epic) Camilla Belle, Cliff Curtis, Steven Strait.	★★★ National Treasure: Book of Secrets (2007, Adventure) Jon Voight, Ed Harris, Nicolas Cage.	★★★ National Treasure: Book of Secrets (2007, Adventure) Jon Voight, Ed Harris, Nicolas Cage.	★★★ National Treasure: Book of Secrets (2007, Adventure) Jon Voight, Ed Harris, Nicolas Cage.	★★★ National Treasure: Book of Secrets (2007, Adventure) Jon Voight, Ed Harris, Nicolas Cage.	★★★ National Treasure: Book of Secrets (2007, Adventure) Jon Voight, Ed Harris, Nicolas Cage.	★★★ National Treasure: Book of Secrets (2007, Adventure) Jon Voight, Ed Harris, Nicolas Cage.	★★★ National Treasure: Book of Secrets (2007, Adventure) Jon Voight, Ed Harris, Nicolas Cage.	★★★ National Treasure: Book of Secrets (2007, Adventure) Jon Voight, Ed Harris, Nicolas Cage.	Futurama	Futurama
162 RFD	162	(5:30) Cattlemen	FFA Today	Chris Cox	Ken McNabb	Best of America	Rural Eve. News	Ag PhD	Cattlemen to Cattlemen	FFA Today	Product Showcase	Product Showcase	Product Showcase

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