

TODAY	TONIGHT	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
HIGH 48° LOW 26°	LOW 27°	50° 27°	48° 24°	51° 28°	61° 32°	59° 31°	51° 28°

ALMANAC

Bend Municipal Airport through 5 p.m. yesterday.

TEMPERATURE		
Yesterday	Normal	Record
High 45°	49°	70° in 1914
Low 36°	26°	3° in 1951

24 hours through 5 p.m. yesterday Trace Record 2.30" in 1908
 Month to date (normal) 0.05" (0.19")
 Year to date (normal) 1.14" (2.81")
 Barometric pressure at 4 p.m. 30.11"

SUN, MOON AND PLANETS

Rise/Set	Today	Tue.
Sun	6:30am/6:03pm	6:28am/6:04pm
Moon	4:12am/1:00pm	4:59am/2:07pm
Mercury	5:32am/3:37pm	5:31am/3:38pm
Venus	6:28am/5:36pm	6:27am/5:38pm
Mars	9:25am/12:37am	9:23am/12:36am
Jupiter	5:23am/3:22pm	5:20am/3:19pm
Saturn	4:58am/2:35pm	4:54am/2:31pm
Uranus	8:22am/10:19pm	8:19am/10:15pm

New Mar 13 **First** Mar 21 **Full** Mar 28 **Last** Apr 4
Tonight's sky: Ursa Major is nearly overhead before midnight.

Source: Jim Todd, OMSI

OREGON WEATHER

Shown is today's weather. Temperatures are today's highs and tonight's lows.

EAST: Partly sunny on Monday. A snow shower in spots. Mostly cloudy with a snow shower at night.

CENTRAL: Partly sunny with a few rain or snow showers on Monday. Snow levels near 2,500 feet.

WEST: Partly sunny on Monday with a few rain or snow showers. Snow levels near 2,000 feet.

OREGON EXTREMES YESTERDAY

High: 57° at Ontario
Low: 19° at Rome

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TRAVEL WEATHER

NATIONAL			NATIONAL		
City	Yesterday HI/Lo/Prec.	Today HI/Lo/W	City	Yesterday HI/Lo/Prec.	Today HI/Lo/W
Abilene	69/39/0.0	70/57/c	Juneau	42/28/0.0	38/17/s
Albany	33/15/0.0	36/27/pc	Kansas City	70/44/0	71/53/s
Albuquerque	66/35/0.0	70/43/c	Lansing	40/17/0.0	58/32/pc
Anchorage	23/7/0.0	24/14/c	Las Vegas	74/51/0.0	74/47/s
Atlanta	61/35/0.0	67/40/s	Lexington	51/25/0.0	59/36/pc
Atlantic City	42/30/Tr	44/39/s	Lincoln	72/42/0.0	72/49/c
Austin	71/36/0.0	70/55/pc	Little Rock	64/33/0.0	67/47/s
Baltimore	47/22/0.0	51/38/s	Los Angeles	64/55/0.0	64/48/pc
Billings	57/33/0.0	55/33/c	Louisville	57/32/0.0	65/42/s
Birmingham	65/31/0.0	70/40/s	Madison, WI	43/17/0.0	52/34/s
Bismarck	60/40/0.0	64/36/pc	Memphis	65/36/0.0	67/46/s
Boise	57/33/0.0	53/33/pc	Miami	78/63/Tr	72/66/pc
Boston	38/22/0.0	37/30/s	Milwaukee	42/24/0.0	53/37/s
Bridgeport, CT	41/26/0.0	41/34/s	Minneapolis	62/32/0.0	59/43/s
Burlington, VT	29/13/0.0	31/24/pc	Nashville	63/28/0.0	67/40/s
Caribou, ME	28/5/Tr	30/5/s	New Orleans	67/52/0.0	71/53/s
Charleston, SC	59/32/0.0	63/34/s	New York City	41/29/Tr	44/37/s
Charlotte	56/31/0.0	63/35/s	Newark, NJ	43/28/0.0	44/35/s
Chattanooga	64/31/0.0	67/35/s	Norfolk, VA	45/37/0.0	53/38/s
Cheyenne	65/33/0.0	63/34/pc	Oklahoma City	66/32/0.0	66/53/pc
Chicago	52/26/0.0	63/42/pc	Omaha	70/40/0.0	72/49/c
Cincinnati	51/26/0.0	62/39/pc	Orlando	69/53/0.0	70/53/pc
Cleveland	36/21/0.0	59/42/pc	Palm Springs	83/50/0.0	77/50/pc
Colorado Springs	65/38/0.0	66/37/pc	Peoria	62/30/0.0	65/43/pc
Columbia, MO	68/39/0.0	68/48/s	Philadelphia	60/45/0.0	65/48/pc
Columbia, SC	57/28/0.0	64/33/s	Phoenix	89/58/0.0	83/58/pc
Columbus, GA	67/37/0.0	69/38/s	Pittsburgh	41/16/0.0	53/41/pc
Columbus, OH	45/24/0.0	60/40/pc	Portland, ME	34/12/0.0	35/24/s
Concord, NH	34/16/0.0	36/18/s	Providence	38/20/0.0	40/29/s
Corpus Christi	72/44/0.0	74/61/c	Raleigh	52/29/0.0	59/34/c
Dallas	68/44/0.0	70/54/pc	Rapid City	61/39/0.0	71/37/c
Dayton	47/21/0.0	63/40/pc	Reno	62/27/0.0	49/27/pc
Denver	70/40/0.0	68/40/pc	Richmond	49/28/0.0	56/34/s
Des Moines	67/38/0.0	72/55/pc	Rochester, NY	32/16/Tr	45/35/pc
Detroit	41/20/0.0	61/35/pc	Sacramento	65/37/0.0	58/42/c
Duluth	44/24/0.0	50/33/s	St. Louis	67/35/0.0	70/49/s
El Paso	73/38/0.0	81/54/c	Salt Lake City	60/35/0.0	69/39/c
Fairbanks	14/-12/0.0	27/10/pc	San Antonio	69/45/0.0	68/56/c
Fargo	59/38/0.0	56/42/pc	San Diego	64/54/0.0	64/52/pc
Flagstaff	57/24/0.0	57/30/pc	San Francisco	60/45/0.0	57/47/Tr
Grand Rapids	41/17/0.0	54/34/pc	San Jose	62/39/0.0	59/45/s
Green Bay	42/18/0.0	51/31/s	Santa Fe	67/26/0.0	66/35/c
Greensboro	51/28/0.0	60/34/s	Savannah	64/36/0.0	66/35/s
Harrisburg	45/23/0.0	50/38/pc	Seattle	48/42/0.0	52/37/c
Hartford, CT	38/18/0.0	40/28/s	Sioux Falls	68/43/0.0	68/48/s
Havana	81/69/0.0	79/69/pc	Spokane	48/32/Tr	45/31/c
Houston	70/41/0.0	73/56/s	Springfield, MO	66/32/0.0	66/47/s
Huntsville	63/28/0.0	66/36/s	Tampa	71/54/0.0	72/54/s
Indianapolis	52/26/0.0	64/41/s	Tucson	88/53/0.0	81/60/c
Jackson	66/35/0.0	72/41/s	Tulsa	68/42/0.0	69/54/pc
Jacksonville	63/40/0.0	64/37/s	Washington, DC	48/28/0.0	54/40/s
			Wichita	66/37/0.0	68/52/pc
			Yakima	52/27/0.0	49/28/c
			Yuma	84/53/0.0	79/51/pc

UV INDEX TODAY

10 a.m.	Noon	2 p.m.	4 p.m.
1	1	1	0

The higher the AccuWeather.com UV Index™ number, the greater the need for eye and skin protection. 0-2 Low, 3-5 Moderate, 6-7 High, 8-10 Very High, 11+ Extreme.

ROAD CONDITIONS

For web cameras of our passes, go to www.bendbulletin.com/webcams

I-84 at Cabbage Hill: Chilly today with snow, accumulating 1-3 inches.

US 20 at Santiam Pass: Cloudy today with a stray shower in the afternoon.

US 26 at Gov't Camp: Cloudy today. Occasional snow and flurries tonight.

US 26 at Ochoco Divide: Cloudy and cold today with a brief shower or two.

ORE 58 at Willamette Pass: Mainly cloudy and chilly today with a shower in spots. Rather cloudy tonight.

ORE 138 at Diamond Lake: Mostly cloudy and very cold today. Cold tonight with snow.

SKI REPORT

In inches as of 5 p.m. yesterday

Ski resort	New snow	Base
Anthony Lakes Mtn	0	0-100
Hoodoo Ski Area	0	0-96
Mt. Ashland	0	63-69
Mt. Bachelor	2	110-125
Mt. Hood Meadows	0	0-212
Mt. Hood Ski Bowl	1	70-93
Timberline Lodge	0	0-175
Willamette Pass	0	0-75
Aspen / Snowmass, CO	0	43-59
Mammoth Mtn. Ski, CA	0	60-95
Squaw Valley, CA	0	0-112
Park City Mountain, UT	0	50-75
Sun Valley, ID	0	74-93

Source: OnTheSnow.com

NATIONAL WEATHER

Shown are today's noon positions of weather systems and precipitation. Temperature bands are highs for the day.

NATIONAL EXTREMES YESTERDAY (for the 48 contiguous states)
National high: 89° at Phoenix, AZ
National low: -12° at Raco, MI
Precipitation: 0.65" at Quillayute, WA

INTERNATIONAL

City	Yesterday HI/Lo/Prec.	Today HI/Lo/W	City	Yesterday HI/Lo/Prec.	Today HI/Lo/W
Amsterdam	42/28/0.0	45/39/r	Mecca	92/69/0.0	94/68/s
Athens	57/50/0.0	60/50/pc	Mecca City	78/48/0.0	76/48/s
Auckland	67/60/0.0	70/60/pc	Montreal	23/14/0.0	27/21/pc
Baghdad	75/50/0.0	79/51/s	Moscow	27/16/0.45	26/4/c
Bangkok	97/79/0.0	93/79/s	Nairobi	83/61/0.0	83/57/s
Beijing	48/24/0.0	51/25/pc	Nassau	77/68/0.18	74/66/pc
Beirut	63/53/0.0	67/57/pc	New Delhi	91/63/0.0	89/64/pc
Berlin	40/33/0.0	41/25/pc	Osaka	55/35/0.26	53/37/r
Bogota	64/52/0.12	66/47/c	Osaka	36/29/0.0	35/20/pc
Budapest	46/18/0.0	49/29/pc	Ottawa	21/3/0.0	29/24/pc
Buenos Aires	81/68/0.0	81/66/pc	Paris	48/30/0.0	47/34/pc
Cabo San Lucas	81/59/0.0	79/62/s	Rio de Janeiro	79/72/0.30	81/73/r
Cairo	74/55/0.0	75/58/s	Rome	57/46/0.81	55/48/r
Calgary	45/23/0.0	40/20/s	Santiago	88/59/0.0	93/60/s
Cancun	81/66/0.02	79/70/pc	Sao Paulo	75/68/0.42	77/65/r
Dublin	50/32/0.0	50/41/c	Sapporo	34/21/0.02	35/13/sf
Edinburgh	50/39/0.19	49/41/pc	Seoul	52/32/0.0	54/30/s
Geneva	54/36/0.38	52/32/pc	Shanghai	51/47/0.05	56/48/c
Harare	76/60/0.0	78/59/pc	Singapore	88/79/0.49	89/77/c
Hong Kong	71/66/0.0	72/65/c	Stockholm	34/28/0.01	34/24/pc
Istanbul	45/41/0.04	48/33/s	Sydney	78/62/0.0	85/69/r
Johannesburg	63/48/0.0	58/43/s	Taipei City	67/61/0.09	68/61/c
Lima	81/70/0.0	79/70/pc	Tel Aviv	66/50/0.0	67/51/pc
Lisbon	61/52/0.0	57/47/pc	Tokyo	48/34/0.21	50/47/r
London	43/34/0.0	47/34/pc	Toronto	30/14/0.0	46/34/c
Madrid	57/41/0.0	55/40/sh	Vancouver	46/43/0.04	49/38/pc
Manila	93/77/0.0	91/78/s	Vienna	46/21/0.0	43/22/pc
			Warsaw	38/31/0.12	38/21/sf

It's a bird, it's a plane, it's a ... space hurricane?

Scientists capture massive 'storm' spinning over Earth for the first time in 2014

BY RICHARD TRIBOU

Orlando Sentinel

ORLANDO, Fla. — While Florida is no stranger to hurricanes at ground level, the Earth once experienced a 620-mile-wide "space hurricane."

That's what researchers were calling a phenomenon that formed over the North Pole in 2014 captured for the first time by the Defense Meteorological Satellite Program. Instead of wind and rain, though, the "space hurricane" was whipping around electrons. Made up of plasma, the vortex spun counter-clockwise and lasted about eight hours, according to the research compiled by scientists from the University of Reading and Shandong University in China.

They published their findings in the journal Nature Communications.

"Here, we report a long-lasting space hurricane in the polar ionosphere and magnetosphere during low solar and otherwise low geomagnetic activity," the paper's abstract reads. "This hurricane shows strong circular horizon-

tal plasma flow with shears, a nearly zero-flow center, and a coincident cyclone-shaped aurora caused by strong electron precipitation associated with intense upward magnetic field-aligned currents."

The paper said the "space hurricane" fed large amounts of energy and momentum into the ionosphere. Bursts of solar wind can disrupt the GPS satellite systems that orbit Earth, and this phenomenon is an example of why scientists monitor space weather.

This marks the first time the existence of a "space hurricane" has been found. Researchers suggest that "space hurricanes" could be present on other planets as well across the universe.



The discovery of a "space hurricane" high above Earth might mean that more such storms whirl away at other planetary bodies.

Qing-He Zhang/TNS

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Timothy, Happy St. Patrick's Day

Dennis, I hope you find your pot of gold at the end of the rainbow today.

To Tony, Love, Alaina

Love, Gram & Pops

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