



WISCONSIN'S GREAT LAKES! 2015-2016 CALENDAR

WISCONSIN'S GREAT LAKES! | Wisconsin Department of Natural Resources | Office of the Great Lakes

To those devoid of imagination a blank space on the map is a useless waste; to others, the most valuable part.

- Aldo Leopold

Wisconsin's GREAT LAKES!

A land ethic, then, reflects the existence of an ecological conscience, and this in turn reflects a conviction of individual responsibility for the health of the land. Health is the capacity of the land for self-renewal. Conservation is our effort to understand and preserve this capacity.

- Aldo Leopold

Bordered by three world-class waterways — the Mississippi River, Lake Superior and Lake Michigan and located at the junction of the eastern deciduous forest, northern boreal forest and temperate grasslands, Wisconsin is blessed with a wealth of natural communities. (A community is an assemblage of plant and animal species, living together in a particular area, at a particular time, in a specific habitat.) The beautiful and diverse physical features of our Great Lakes shoreline influence the native plants found there. Plants in turn support our native animal species — from insect and worms up the food chain to bobcats and wolves.

Approximately 1,800 species of native plants and 657 species of native vertebrates have been identified in Wisconsin. Add to this thousands of species of nonvascular plants and invertebrates! This natural "biodiversity" of plants and animals helps to make

Wisconsin unique in the world. To best manage and maintain Wisconsin's biodiversity, we must understand the interactions of the physical environment and the plants and animals that make up these special communities.

An international network of scientists and managers inventory the locations and status of natural communities and rare species worldwide. In conjunction with this international effort, Wisconsin's Natural Heritage Inventory (NHI) program conducts field surveys for natural communities and rare species throughout Wisconsin.

Examples of natural communities associated with Lake Michigan and Lake Superior are highlighted in the sidebars of this year's calendar. To learn more about Wisconsin's natural communities and rare species, visit: dnr.wi.gov (Search: *biodiversity*).

KEEPING COUNT

100

Number of WI
threatened
plants and animals

133

Number of WI
endangered plants
and animals

673

Number of WI
State Natural Areas
(373,000 acres)

50

Number of WI
State Parks

1

Number of National
Parks in WI
(Apostle Islands)

1

Number of Tribal
National Parks in WI
(Frog Bay)

COVER PHOTO: "Danger Thin Ice" by **EDWARD DEIRO** – 2nd Place – Natural Features & Wildlife, Milwaukee, WI • BACKGROUND PHOTO: "Meyers Beached" by **CHERYL BARRETT**, Cornucopia, WI

Wisconsin DNR's Office of the Great Lakes is pleased to present our annual *Wisconsin's Great Lakes* calendar. We hope this calendar will be a daily reminder of how precious Wisconsin's Great Lakes and their associated natural communities are and how we can all help protect them. The calendar showcases a collection of photos from our 2015 photo contest and writings submitted by Wisconsin authors. It includes information about Great Lakes natural communities and examples of simple steps all of us can take to help protect our unique and beautiful Great Lakes resources.

Photographers from Wisconsin and beyond submitted over 500 beautiful photos for this year's contest. Wisconsin authors contributed a lovely collection of poems and essays to our Great Lake Writing Project. As the photos and writings clearly show, the Great Lakes are among Wisconsin's most scenic and beloved natural resources.

Thank you to all 2015 photographers and authors for sharing your talent with us!

Visit the Office of the Great Lakes website to see more photos and writing submissions dnr.wi.gov (Search: *photo and writing submissions*)



People are drawn to Wisconsin by our beautiful landscapes and extensive waters, which are part of our heritage and economic strength. A thriving Great Lakes environment is important to our businesses, recreation, tourism, and our way of life. I invite you to explore and enjoy all the world-class resources our Great Lakes have to offer.

- Governor Scott Walker



Background Photo by CHRISTOPHER RAND



Natural landscapes and native plants and animals help make our state great. Thoughtful management and conservation of Wisconsin's natural heritage is part of our mission. Together with our many partners, we take pride in protecting these special resources for today and for generations to come. And you can help! Visit our website, dnr.wi.gov and search "volunteer" to learn more.

- Cathy Stepp, DNR Secretary



Background Photo by PHILIP SCHWARZ

"Wisconsin's Great Lakes" 2016 Photo Contest

Send us your best photos of Lake Michigan or Lake Superior. We're looking for beautiful shorelines, kids and adults enjoying the lakes, cultural and historic aspects of the lakes, and people involved in Great Lakes stewardship activities. Winning photos will be used in the 2016-2017 Wisconsin's Great Lakes calendar and in other DNR publications, presentations, websites and displays. Photo submission deadline is February 1, 2016.

Photos of all seasons are needed!

Entry Categories (limit three photo entries per individual):

- 1. People enjoying Wisconsin's Great Lakes.** Images of people fishing, canoeing, sailing, playing on the beach, etc.
- 2. Natural features and wildlife.** Great Lakes shorelines, wetlands and tributaries, fish and other wildlife.
- 3. Historic and cultural features.** Lighthouses, harbor towns, festivals, etc.
- 4. Great Lakes Stewardship.** See our "New Contest Category" description!

Rules and instructions:

1. The contest is open to anyone. Photos must be submitted electronically.
2. Attach each photo (jpeg format) to a separate email. In each email, please include the photo title, where in Wisconsin the photo was taken, the entry category, your name, email address, mailing address and phone number.
3. Photos must be high resolution (maximum file size 11MB), horizontal in orientation, and taken in Wisconsin (some exceptions for WI/MN and WI/MI shared waters). Photo editing is acceptable.
4. The Wisconsin DNR reserves the right to use an electronic or print copy of any image entered in the contest for non-commercial educational or promotional use with credit to the photographer. For example, photos may be used for DNR displays, slide shows, videos, publications and website.

Judging:

Photos will be judged by a panel of Wisconsin DNR staff. Criteria for judging will include creativity, visual and technical merit, and composition.

Awards and Prizes:

Winning photographs will be included in the 2016-2017 Wisconsin's Great Lakes calendar. Winning photographers will be contacted by mail, phone or email and will receive the calendar by mail.

Email photos and entry information to: DNRGreatLakesPhotoContest@wisconsin.gov.

New Contest Category: Great Lakes Stewardship

There's a lot of good work going on to protect and restore Wisconsin's Great Lakes! Show us how you, your agency/organization or a local group is protecting, enhancing or restoring the shore, tributaries, wetlands or beaches of Lake Michigan or Lake Superior. Send us a photo of your work and a brief (up to 180 words) description of the partners involved, your funding source and what you hope to accomplish. Include a web link, if applicable. If people appear in the photo, please ask their permission before submitting photos.

"Wisconsin's Great Lakes" Writing Project

Is your talent writing? Send us your original Great Lakes quote, essay, poem, song or rap. Help get the word out about how great Wisconsin's Great Lakes are. Share your favorite writings with us and you may find your words on our website, calendar, publications and displays! (All authors will be credited.) Deadline February 1, 2016.

Email writings to: DNRGreatLakesWriting@wisconsin.gov.

THE WISCONSIN DNR IS ON



www.facebook.com/WIDNR



twitter.com/WDNR



www.pinterest.com/WDNR/



www.flickr.com/photos/widnr/



www.youtube.com/user/WIDNRTV



ABOVE: "Moorings"
 by **Dan Patrinos**
 1st Place - Natural Features & Wildlife
 Milwaukee County Marina

Wisconsin Coastlines
 By **PATRICIA WILLIAMS**

Soft balmy air sighs
 above a chill Spring surface;
 clouds take shape over open water,
 roll onto a blossoming coastline.

Summer's sunny comeliness
 bursting with blue wave sound,
 glows over miles of golden beach
 and dunes along the shore.

Unblemished skies in Autumn,
 coast intense with leaves of bronze
 and climbing copper tendrils,
 signal a killing frost.

Ice shapes loom, sleety and raw,
 aglitter with silver and diamonds;
 lake majesty never lessened,
 by foulest Winter weather.

*Everybody needs beauty
 as well as bread, places
 to play and pray in,
 where nature may heal
 and give strength to the
 body and soul.*

– **John Muir**

Background Photo by **MATTHEW JOHN GEORGE**
 Photo by **MARK ADSIT**



September 2015

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2	3	4	5 Last Quarter Moon
6	7 Labor Day	8	9	10	11	12
13 Rosh Hashanah Begins at Sundown New Moon	14	15	16	17	18	19
20	21 First Quarter Moon	22 Yom Kippur Begins at Sundown	23 Autumn Begins	24	25	26
27 Full Moon	28	29	30	AUGUST 2015 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31		OCTOBER 2015 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Photo by **RANDY SCHERKENBACH**



ABOVE: "Bridge Over the Brule"
by **GERVASE THOMPSON**
Brule River

October 2015

Natural Heritage Site Program

The Natural Heritage Site Program recognizes households, businesses, schools, organizations and communities that voluntarily create and manage wildlife habitat on their properties. Work may include establishing native plants and removing invasive plant species, providing food, water and shelter for animals and participating in other resource and habitat conservation practices. Whether your habitat is a backyard, farm, business, campus, recreational property or land spread throughout a community, you can receive certification from the Natural Heritage Conservation Program as a Natural Heritage Site.

For more information, email Lucas. Olson@wisconsin.gov or visit: dnr.wi.gov (Search: *NHC Report*).

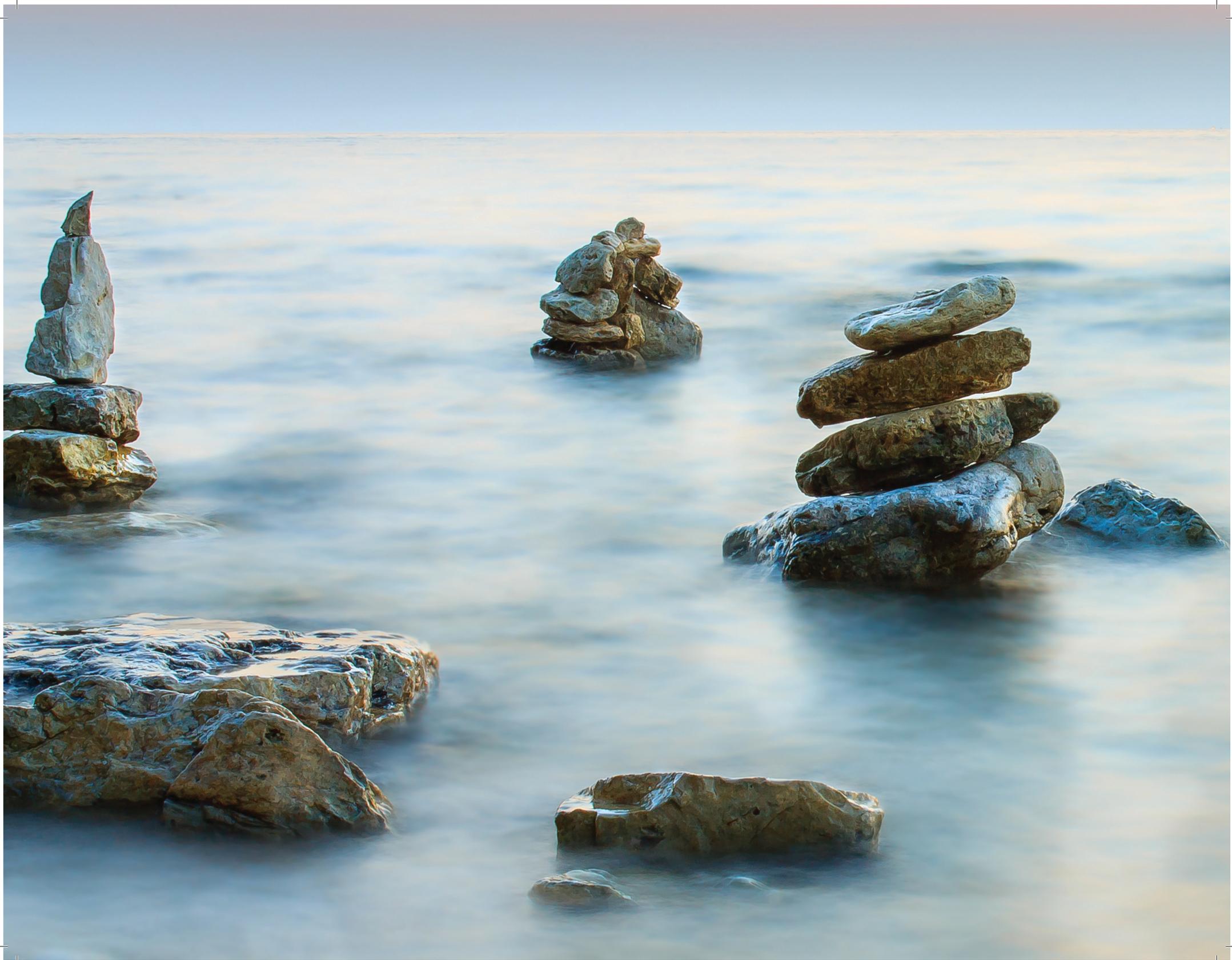
Here is your country. Cherish these natural wonders, cherish the natural resources, cherish the history, cherish the romance as a sacred heritage for your children and your children's children.

- **Teddy Roosevelt**

Photo by **JANNA SOERENS**



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		SEPTEMBER 2015 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	NOVEMBER 2015 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1	2	3
4 ☾ Last Quarter Moon	5	6	7	8 ○	9	10
11	12 Columbus Day ● New Moon	13	14	15	16	17
18 Clean Water Act Signed in 1972	19	20 ☽ First Quarter Moon	21	22	23	24
25	26	27 ○ Full Moon	28	29	30	31 Halloween



ABOVE: "Cave Point Rocks"
by **CHRISTINA SINDELIR**
Cave Point County Park

November 2015

Great Lakes Alkaline Rockshore



Counties with alkaline rockshore community. Dots denote parks where examples of community may be seen.

This community develops on creviced, wave-splashed, horizontal dolomite bedrock that dips toward Lake Michigan. This occurs only along the Lake Michigan shoreline of the northern Door Peninsula, and on the margins of some islands to the north. The extent of exposed rock depends on water levels. Large expanses of this community may be either covered with water or exposed during a given year.

Plants include the shrubs ninebark and shrubby cinquefoil, and the herbs silverweed, Arctic primrose, grass-leaved goldenrod, brook lobelia, gentians, grasses-of-Parnassus, Indian paint-brush, low calamint and many sedges and rushes. Just inland of the exposed dolomite there is often a narrow zone of rank herbs and tall shrubs, sometimes occupying a ridge of cobbles, gravel or a low ledge. Beyond this zone of herbs and shrubs, a very distinctive forest sometimes develops which is composed of northern white cedar, white spruce, balsam fir, eastern white pine and paper birch.

This community type is, and has always been, rare in Wisconsin.

- Cave Point County Park, Door County
- Rock Island State Park, Door County

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 Daylight Savings Time Ends	2	3 Last Quarter Moon	4	5	6	7
8	9	10 Edmund Fitzgerald Sinks in Lake Superior in 1975	11 Veteran's Day New Moon	12	13	14
15	16	17	18	19 First Quarter Moon	20	21
22	23	24	25 Full Moon	26 Thanksgiving Day	27	28
29	30			OCTOBER 2015 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 <small>Photo by STEVEN SANTAMOUR</small>		DECEMBER 2015 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 <small>Photo by NATHAN SCHLEUDER</small>



ABOVE: "Sunrise Over the Tug Ludington"
by **CHRISTOPHER RAND**
2nd Place - Cultural & Historic Features
Kewaunee, WI

Writing Project Reflections

Winter camping in Door County's Newport State Park along frozen-over Lake Michigan allows for slow lingering early-morning sunrises, an orchestra of bird calls, strong winds and pure serenity without seeing a single soul for three days.

- **Robby DeGraff**

As we honeymooned along Lake Michigan and watched the waves churn along our drive from Port Washington to Gill's Rock, we saw the enormous water as a sea of possibilities and beauty. The fresh breeze and distant ships shuttling across the inland ocean painted a world of warmth and wonderful unknowns.

- **Chris Turek**

Photo by **JIM PEACOCK**

December 2015

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>NOVEMBER 2015</p> <p>S M T W T F S</p> <p>1 2 3 4 5 6 7</p> <p>8 9 10 11 12 13 14</p> <p>15 16 17 18 19 20 21</p> <p>22 23 24 25 26 27 28</p> <p>29 30</p>	 <p>Photo by NICK SCHROEDER</p>	1	2	3	4	5
6	7	8	9	10	11	12
<p>Hanukkah Begins at Sundown</p>		<p>Great Lakes Compact Enacted in 2008</p>		<p>☾ Last Quarter Moon</p>	<p>● New Moon</p>	<p>Great Lakes Restoration Strategy Released in 2005</p>
13	14	15	16	17	18	19
<p>Great Lakes Compact Signed by Governors in 2005</p>					<p>☾ First Quarter Moon</p>	
20	21	22	23	24	25	26
	<p>Winter Begins</p>				<p>Christmas Day</p> <p>○ Full Moon</p>	<p>Kwanzaa Begins</p>
27	28	29	30	31	 <p>Photo by VICTORIA SOKOLOWSKI</p>	
				<p>New Year's Eve</p>	<p>JANUARY 2016</p> <p>S M T W T F S</p> <p>1 2</p> <p>3 4 5 6 7 8 9</p> <p>10 11 12 13 14 15 16</p> <p>17 18 19 20 21 22 23</p> <p>24 25 26 27 28 29 30</p> <p>31</p>	



January 2016

ABOVE: "Bloodmoon Rising"
by **MASON MORRIS**
1st Place - Cultural & Historic Features
Port Washington, WI

New Year's Resolution

Many chemicals that we use in our homes cannot be removed by water treatment facilities and can end up in our lakes, streams and drinking water. Some of these chemicals have serious health effects on aquatic wildlife. Microbeads (tiny plastic beads) from a variety of personal care products have recently raised concern because they have been found in the Great Lakes. Once in the water, microbeads accumulate toxins and can be mistaken for food by small fish and wildlife.

We can all help:

- Consider healthier alternatives to home, yard and personal care products.
- Use medicines as directed and take any remaining pharmaceuticals to local medicine disposals.
- Properly dispose of all leftover chemicals. Never flush them down the toilet or pour them down the sink, storm drain or on the ground. Check for Clean Sweep events in your area.
- Recycle or properly dispose of old computers and other electronic equipment.

Medicine disposal and electronics recycling: **dnr.wi.gov** (Search: *pharmaceuticals* or *ecycle*)

Photo by **DAVID FRICKE**



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		<p>DECEMBER 2015</p> <p>S M T W T F S</p> <p>1 2 3 4 5</p> <p>6 7 8 9 10 11 12</p> <p>13 14 15 16 17 18 19</p> <p>20 21 22 23 24 25 26</p> <p>27 28 29 30 31</p> <p>Photo by PHILIP SCHWARZ</p>		<p>FEBRUARY 2016</p> <p>S M T W T F S</p> <p>1 2 3 4 5 6</p> <p>7 8 9 10 11 12 13</p> <p>14 15 16 17 18 19 20</p> <p>21 22 23 24 25 26 27</p> <p>28 29</p> <p>Photo by VICTORIA SOKOLOWSKI</p>	1	2
3	4	5	6	7	8	9
					New Year's Day ☾ Last Quarter Moon	☉ New Moon
10	11	12	13	14	15	16
						Soo Locks Close to Ships ☽ First Quarter Moon
17	18	19	20	21	22	23
						☽ Full Moon
24	25	26	27	28	29	30
31						
☾ Last Quarter Moon						

Remember to submit your best Great Lakes photos and writings! See information on the first pages of this calendar. The deadline is February 1, 2016.





ABOVE: "Big Red"
by **PAUL SCHULTZ**
Sturgeon Bay, WI

March 2016

Giving Birds a Hand

Resident and migratory birds depend on the diversity of natural communities surrounding our Great Lakes. Wetlands, open water and woods along the lakes provide protection and food which allows birds to rest, refuel and raise their young. The Wisconsin Stopover Initiative was launched in 2005 to identify and protect migratory stopover sites, especially along the Great Lakes.

Visit: dnr.wi.gov
(Search: *Stopover Initiative*)
<http://youtu.be/MpzD6z-LTC0>

To better understand which species breed and raise their young throughout Wisconsin, a field survey will be conducted from 2015-2019. The *Wisconsin Breeding Bird Atlas II* will document the distribution and abundance of birds breeding in an area. (The original Atlas contains information from 1995-2000.) Updated information will allow us to see changes in bird populations since the last survey and to measure future changes. These insights will allow scientists to identify the conservation needs of our breeding birds and help us find ways to meet those needs.

Volunteers will observe bird behavior and report data online. Volunteering is easy!
Visit: dnr.wi.gov (Search: *Bird Atlas*)

Photo by **KAREN O'HAGAN**



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1 Last Quarter Moon	2	3	4	5
6	7	8 New Moon	9	10	11	12
13 Daylight Savings Time Begins	14	15 First Quarter Moon	16 Fix a Leak Week dnr.wi.gov (Search: <i>fix a leak</i>)	17	18	19 Spring Begins
20	21	22	23	24	25	26
			Full Moon		Soo Locks Open to Ships	
27 Easter	28	29	30	31 Last Quarter Moon	FEBRUARY 2016 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	APRIL 2016 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30



ABOVE: "Marina Nightlight"
by **JIM PEACOCK**
Bayfield, WI

April 2016

Frog Bay Tribal National Park

Frog Bay, Wisconsin's first Tribal National Park, earned its name by being home to a large number of chirping frogs. With 88 acres of boreal forest and ¼ mile of pristine beach, the new park is a treasure for Wisconsin's citizens! On the shores of Lake Superior and within sight of the Apostle Islands National Lakeshore, this beautiful area is blanketed with old growth hemlock and cedar and is home to many rare plants, deer, pine martin, coyotes, bobcats, wolves and black bear.

The sheltered harbor was historically a native gathering place and the land was in private ownership until its recent return to the Red Cliff Tribe with a legally binding conservation easement. The private owners donated half the value of the land; a grant from the National Oceanic and Atmospheric Administration (NOAA) provided the remaining funds. Frog Bay will remain primarily undeveloped and open to everyone.

Visit: travelwisconsin.com
(Search: Frog Bay)

NOAA Coastal & Estuarine Land Conservation Program:
<http://1.usa.gov/1b0zvVn>

Watch: <https://www.youtube.com/watch?v=wdPMzbfV3M0>

Photo by **EVE SCHRANK**



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		<p>MARCH 2016</p> <table border="1"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td></td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr> <tr><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td></tr> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td></tr> </table> <p>Photo by MAE IMUEHL</p>	S	M	T	W	T	F	S		1	2	3	4	5		6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				<p>MAY 2016</p> <table border="1"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td><td></td></tr> </table> <p>Photo by REGGIE GAUGER</p>	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					1	2
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ABOVE: "Nap Time"
by **CHRIS GAZIANO**
Lakeshore State Park

Great Lakes Beach Community



Counties with beach community. Dots denote parks where examples of community may be seen.

This community often occurs in association with semi-stabilized dune systems. Beaches are extremely dynamic and are strongly influenced by storms and water level changes. The lower beach is continually impacted by waves; the middle beach supports a dynamic plant community affected by wave action only during storms; and the upper beach, affected by wind-blown sand, wave spray, and only the most severe storms, supports a relatively diverse assemblage of plants.

Plants are typically sparse due to the scouring of waves and ice. However, following several years of low water with few major storms, the vegetation of the upper beach zone can become quite dense. An odd mix of plants can include rare endemic species, as well as weedy species adapted to quickly colonize disturbed areas. Exposed shorelines may be entirely unvegetated. Endemic plants include seaside spurge and American sea-rocket; other natives may include silverweed, Baltic rush, and water horehound. The beaches of Lake Superior are mostly unvegetated, but provide important foraging, resting, and breeding areas for migratory and resident birds including the endangered piping plover.

- Harrington Beach State Park
- Big Bay State Park

June 2016

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>MAY 2016</p> <p>S M T W T F S</p> <p>1 2 3 4 5 6 7</p> <p>8 9 10 11 12 13 14</p> <p>15 16 17 18 19 20 21</p> <p>22 23 24 25 26 27 28</p> <p>29 30 31</p>	<p>Photo by JENA HAMMERSBERG</p>		1	2	3	4
5	6	7	8	9	10	11
<p>☾ First Quarter Moon</p>	<p>First of Ramadan</p>	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
<p>☽ Full Moon</p>	<p>Summer Begins</p> <p>☽ Full Moon</p>	<p>☾ Last Quarter Moon</p>	<p>Photo by REGGIE GAUGER</p>	<p>JULY 2016</p> <p>S M T W T F S</p> <p>1 2</p> <p>3 4 5 6 7 8 9</p> <p>10 11 12 13 14 15 16</p> <p>17 18 19 20 21 22 23</p> <p>24 25 26 27 28 29 30</p> <p>31</p>		



ABOVE: "Milwaukee Booming"
 by **JULIAN KEGEL**
 2nd Place - People Enjoying Wisconsin's
 Great Lakes
 Milwaukee Art Plaza

July 2016

Yard Care

Your yard care choices can help protect water and air quality as well as save energy and improve lawns and gardens. Here are a few ideas:

- Leave grass clippings and shredded leaves on the lawn. Mow leaves along with the grass in the fall and leave them on the yard to decompose and release nutrients.
- Compost. This natural process allows microorganisms to turn leaves, grass and vegetable matter into organic plant food for gardens. Coffee grounds contain lots of nitrogen and can be sprinkled on the garden, too!
- Mulch. Grass clippings, leaves and chipped or shredded brush can be used as home-grown mulch in gardens.
- Consider alternative landscapes. Native prairie plants, grasses, shrubs, woodland plants and trees can decrease the need for watering, mowing and pesticide use. And they support butterflies, moths, bees and other pollinators!
- Leave a brush pile. Brush can provide shelter and nesting sites for small mammals, birds, reptiles and amphibians.

Find out more: dnr.wi.gov
 (Search: *do a little, yard care*)

Photo by **KATHRYN DES FORGE**



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>JUNE 2016</p> <p>S M T W T F S</p> <p>1 2 3 4</p> <p>5 6 7 8 9 10 11</p> <p>12 13 14 15 16 17 18</p> <p>19 20 21 22 23 24 25</p> <p>26 27 28 29 30</p>	<p>Photo by SCOTT D. OLSEN</p>			<p>AUGUST 2016</p> <p>S M T W T F S</p> <p>1 2 3 4 5 6</p> <p>7 8 9 10 11 12 13</p> <p>14 15 16 17 18 19 20</p> <p>21 22 23 24 25 26 27</p> <p>28 29 30 31</p>	1	2
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	<p>Independence Day</p> <p>● New Moon</p>					
10	11	12	13	14	15	16
	<p>● First Quarter Moon</p>					
17	18	19	20	21	22	23
			<p>○ Full Moon</p>			
24	25	26	27	28	29	30
31			<p>● Last Quarter Moon</p>			



ABOVE: "Cave Point Splash"
by **BILL McCLENAHAN**
Cave Point County Park

August 2016

Great Lakes Beach Health

People along the Great Lakes coasts are helping keep beaches open and clean for swimmers and other beach visitors. Protect your own favorite beach:

- Dispose of litter in appropriate beachside containers.
- Don't feed gulls and waterfowl. It encourages the birds to hang around and their fecal matter increases the risk of swimming-related disease.
- Stay out of the water if you are ill.
- Change diapers and put plastic/rubber pants on diapered children before allowing them in the water.
- Do not dump anything down storm drains. Participate in community activities such as painting "Do Not Dump" signs near storm drains.
- Minimize your use of fertilizers and pesticides. These chemicals can be washed off the land and into waterways.

Check for beach closings and water quality concerns before you head off to your favorite spot!

Visit: wibeaches.us.

Photo by **MASON MORRIS**



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>JULY 2016</p> <p>S M T W T F S</p> <p>1 2</p> <p>3 4 5 6 7 8 9</p> <p>10 11 12 13 14 15 16</p> <p>17 18 19 20 21 22 23</p> <p>24 25 26 27 28 29 30</p> <p>31</p>	1	2	3	4	5	6
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Wisconsin State Fair Begins
Pick up your 2016-2017
Great Lakes Calendar!

● New Moon

○ First Quarter Moon

○ Full Moon

○ Last Quarter Moon

SEPTEMBER 2016

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25 26 27 28 29 30

Photo by **SHAWN HAMACHEK**



ABOVE: "Brule River Aurora"
by **KIRK SCHLEIFE**
Mouth of the Brule River

Storm Coming In
by **Charles Rossiter**

Storm coming in,
sky and water
the same deep gray.
What's worse,
I ask myself —
to get soaked
or to miss
what comes next.

Campfire Night
by **Charles Rossiter**

beside the campfire
we talk into the night

foghorn moans
in the distance

the lighthouse light
comes round again
and again
and again

Photo by **VIRGINIA TREUTHARDT**

September 2016

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY																																																	
		<p>AUGUST 2016</p> <table border="1"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td></td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td></tr> <tr><td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td></tr> </table> <p>Photo by MARC PONTO</p>	S	M	T	W	T	F	S	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					1 New Moon	2	3							
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ABOVE: "Art Museum"
by **MARK ADSIT**
Milwaukee, WI

October 2016

Great Lakes Ridge and Swale Community



Counties with ridge and swale community. Dots denote parks where examples of community may be seen.

This community includes semi- to fully-stabilized, often forested beach or dune ridges alternating with long, narrow troughs or "swales." Both parallel the coast and offer exceptionally complex and diverse habitats for wetland, upland and Great Lakes shoreline plants.

Vegetation can run the gamut from open (emergent marsh, fen or sedge meadow), shrub (bog birch, alder), or forested wetlands (often white cedar and black ash are prominent in these). Ridges may support assemblages similar to northern mesic, or northern dry-mesic forests. In a few locations, some of the ridges may support a boreal forest association that includes pines, white spruce, balsam fir and paper birch. This may be at least partially due to the influence of the Great Lakes on local climate, creating conditions that are relatively cool and moist during the growing season.

- Point Beach Ridges State Natural Area
- The Ridges Sanctuary in Bailey's Harbor ridgessanctuary.org

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
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Rosh Hashanah Begins at Sundown		Yom Kippur Begins at Sundown				☾ First Quarter Moon
9	10	11	12	13	14	15
		Clean Water Act Signed in 1972				☉ Full Moon
16	17	18	19	20	21	22
						☾ Last Quarter Moon
23	24	25	26	27	28	29
30	31					
☉ New Moon						



ABOVE: "Algoma"
by **WESTEN GROH**
Algoma, WI

November 2016

Lake Michigan Aquatic Community

Lake Michigan covers 22,300 square miles, forms 407 miles of Wisconsin coastline and supports a wide diversity of recreational opportunities. The lake is primarily cold water and relatively infertile, although it is warmer and more fertile than Lake Superior. Historically, Lake Michigan's fish community included lake trout, ciscoes/whitefishes and sculpins. Warmer and more fertile harbors and bays (e.g., Green Bay) had both cool and warm water fishes, especially perch.

Invasion by the sea lamprey greatly depleted the native lake trout population. By the 1970s, three cisco species were extinct, and three others no longer existed in Lake Michigan. (Only Lake Superior supports populations of two of these species, and only Lake Huron supports the third.) Over-fishing and other factors caused a steep decline in the population of lake herring. Today Lake Michigan is dominated by introduced or invasive non-native species, including Pacific salmon and trout, alewife, rainbow smelt, ruffe, white perch, gobies, zebra mussels and exotic zooplankton.

- State Parks: dnr.wi.gov
(Search: *State Parks Lake Michigan*)
- State Natural Areas: dnr.wi.gov
(Search: *Natural Areas by County*)

Photo by **STEPHEN J. KESSENICH**

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	<p>OCTOBER 2016</p> <p>S M T W T F S</p> <p>1</p> <p>2 3 4 5 6 7 8</p> <p>9 10 11 12 13 14 15</p> <p>16 17 18 19 20 21 22</p> <p>23 24 25 26 27 28 29</p> <p>30 31</p> <p>Photo by EDWARD DEIRO</p>	1	2	3	4	5
	6	7	8	9	10	11
<p>Daylight Savings Time Ends</p>	<p>☉ First Quarter Moon</p>			<p>Edmund Fitzgerald Sinks in Lake Superior in 1975</p>		
13	14	15	16	17	18	19
	<p>☉ Full Moon</p>					
20	21	22	23	24	25	26
	<p>☉ Last Quarter Moon</p>			<p>Thanksgiving Day</p>		
27	28	29	30			
		<p>☉ New Moon</p>				
						<p>DECEMBER 2016</p> <p>S M T W T F S</p> <p>1 2 3</p> <p>4 5 6 7 8 9 10</p> <p>11 12 13 14 15 16 17</p> <p>18 19 20 21 22 23 24</p> <p>25 26 27 28 29 30 31</p> <p>Photo by MAURICE J. RHUDE</p>



ABOVE: "Ice Rescue"
 by **BOB FORD**
 1st Place - Lake Protection Activities
 Ashland, WI

December 2016

When did the Seasons Change? By JOHN BOURGEOIS

As the wind gently blows, to earth falls
 new snows, each flake slowly floating down.
 And whilst I sit, with face towards glass,
 I simply must ask, with this wintry blast,
 When did the seasons change?

When did the season change, I'd not
 noticed at all, that the frost left the grass,
 As it has in the past, only to change
 colors but way, way too fast!
 So again I must ask, when did
 the seasons change?

The trees have lost their leaves, and the
 new frost has caused ground heaves,
 And while the deer run freely on the forest
 floor, the snow starts to cover
 I wonder, when did the seasons change?

The leaves on the ground, like a sheet on
 a bed, covered now
 With a fresh new blanket of white, that gives
 just the right heat, to what lies just beneath
 But when did the seasons change?

Mother Nature is good, at protecting the wood,
 giving what it needs to survive,
 Next spring things will blossom, and it will
 surely be awesome,
 Because the seasons have changed.

Photo by SHARON KNIGHT

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

NOVEMBER 2016

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Photo by KEVIN MAZE

JANUARY 2017

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22	23	24	25	26	27	28
29	30	31				

4

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☾ First Quarter Moon

Great Lakes Compact Enacted in 2008

11

12

13

14

15

16

17

Great Lakes Restoration Strategy Released in 2005

Great Lakes Compact Signed by Governors in 2005

☉ Full Moon

18

19

20

21

22

23

24

☾ Last Quarter Moon

Winter Begins

Hanukkah Begins at Sundown

25

26

7

28

29

30

31

Christmas Day

Kwanzaa Begins

☉ New Moon

New Year's Eve

"The ultimate test of a man's conscience may be his willingness to sacrifice something today for future generations whose words of thanks will not be heard."

GAYLORD NELSON

former Wisconsin governor and co-founder of Earth Day



Photo by KRISTIN MOAN



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