

WISCONSIN DEPARTMENT OF NATURAL RESOURCES  
OFFICE OF GREAT WATERS

2018 | 2019



WISCONSIN'S  
GREAT WATERS!

# WISCONSIN'S GREAT WATERS!

Nestled between two of Earth's largest lakes and the Mississippi River, Wisconsin is a unique place in the world. We are fortunate to be able to enjoy all that these world-class resources have to offer.

To the north, Lake Superior forms the largest expanse of freshwater in the world. To the east lies Lake Michigan, the largest freshwater lake entirely within the United States. These two lakes along with Huron, Erie, Ontario and their tributaries form the largest freshwater ecosystem on earth. Their watershed covers parts of eight states and two Canadian provinces.

Wisconsin has more than 1,000 miles of Great Lakes shoreline, and more than 20 percent of the state's land area lies within the Great Lakes

basin. Over half of our population lives there. More than 1.6 million Wisconsin citizens get their drinking water from Lake Michigan or Lake Superior.

The Upper Mississippi River winds its way along 230 miles of Wisconsin's western border. It is a special place made of bluffs' sweeping vistas, bottomland forests, open water, and mazes of islands and wetlands.

Mississippi is an Ojibwe word meaning great river or gathering of waters—an appropriate name as the entire river basin, or watershed, extends from the Allegheny Mountains in the eastern United States to the Rocky Mountains. It is the world's third largest drainage basin, with 250 tributaries and branches. The river basin drains 41 percent of the country's water from all or part of 31 states.

The Mississippi is the third longest river in the world, flowing 2,340 miles from its source in Lake Itasca in northern Minnesota to the Gulf of Mexico.

Wisconsin DNR's Office of Great Waters is responsible for developing Great Lakes and Upper Mississippi River policies, coordinating grant funds and management activities to restore and protect these vital natural resources. We are thankful for our many partners to accomplish this important work: federal and state agencies, local and tribal governments, private businesses and industries, nonprofit organizations and individual citizens.

- *Stephen Galarneau*  
*Director*  
*Office of Great Waters –*  
*Great Lakes & Mississippi River*

The Office of Great Waters is pleased to present our tenth annual calendar. We hope this calendar will be a daily reminder of how magnificent Wisconsin's Great Waters are and how we all can help protect them. The calendar is a collection of photos from our 2018 photo contest, writings submitted by Wisconsin authors, and descriptions of stewardship projects. As these photos and writings clearly show, the Great Lakes and Mississippi River are among Wisconsin's most scenic and beloved natural resources.

## Thank you to all 2018 photographers and authors for sharing your talent with us!

Visit the Office of the Great Waters website to see more photos and writing submissions [dnr.wi.gov](http://dnr.wi.gov) (Search: *Photo and Writing Submissions*).

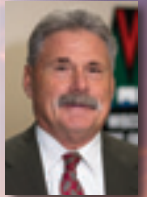
*Wisconsin is bordered by three world-class waterways—the Mississippi River, Lake Superior and Lake Michigan—all featured in this calendar. These vast and beautiful waters are part of our heritage and economic strength. Wisconsin is proud of our restoration and protection work on these valuable resources which are essential to maintaining our economy and quality of life. I applaud all the dedicated stewards who are working throughout Wisconsin to improve and restore these amazing resources.*

- Governor Scott Walker



*The Great Lakes and Mississippi River are vital to our businesses, tourism, recreation, and our way of life. Throughout Wisconsin, people are working together to protect these important resources by restoring habitat, monitoring fish and wildlife, and improving water quality for today and for generations to come. I deeply appreciate all the hard work of the good stewards who take care of our Great Lakes and mighty Mississippi River.*

- Dan Meyer, DNR Secretary



## WISCONSIN'S GREAT WATERS 2019 PHOTO CONTEST

The DNR's Office of Great Waters invites you to submit your best photos of the mighty Mississippi, Lake Michigan or Lake Superior for our 2019 photo contest. We're looking for beautiful shorelines and river fronts, people enjoying the water, cultural and historical aspects of these waters, and people involved in stewardship activities. *Photos of all seasons are needed!*

Winning photos will be used in the 2019-2020 *Wisconsin's Great Waters* calendar and in other DNR publications, presentations, websites and displays. Photo submission deadline is February 1, 2019.

**Entry Categories** (*limit three photo entries per individual*):

- 1. People enjoying Wisconsin's Great Waters – Great Lakes and Mississippi River.** Images of people fishing, boating, playing on the beach, etc.
- 2. Natural features and wildlife.** Great Lakes and Mississippi River waters and shorelines, fish, birds and other wildlife.
- 3. Historical and cultural features.** Lighthouses, harbor towns and river towns, shipping, festivals, etc.
- 4. Great Waters Stewardship.** Show us how you, your agency/organization, or a local group is protecting or restoring the shore, backwaters, wetlands or beaches of Lake Michigan, Lake Superior or the Mississippi River. Send us a photo of your work and a brief (about 180 words) description of the partners involved, funding and accomplishments.

### Rules and instructions:

1. The contest is open to everyone. 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. Email to: [DNRGreatWatersPhotoContest@wisconsin.gov](mailto:DNRGreatWatersPhotoContest@wisconsin.gov)

3. Photos must be high resolution (maximum file size 12 MB), horizontal in orientation, and taken in Wisconsin, with some exceptions for border areas. Photo editing is OK!
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:

Winning photographs will be included in the 2019-2020 *Wisconsin's Great Waters* calendar and featured on the DNR website. Winning photographers will be contacted by mail or email and will receive the calendar by mail.

Email photos and entry information to:

[DNRGreatWatersPhotoContest@wisconsin.gov](mailto:DNRGreatWatersPhotoContest@wisconsin.gov).

## WISCONSIN'S GREAT WATERS 2019 WRITING PROJECT

Is your talent writing? Send us your original Great Waters short essays, stories, poems, or songs. Help get the word out about how great Lake Superior, Lake Michigan and the Mississippi River are. Submissions should be approximately 180 words. Share your favorite writings with us and you may find your words in our calendar, website, publications and displays! All authors will be credited. Deadline is February 1, 2019.

E-mail writings and entry information to: [DNRGreatWatersWritingProject@Wisconsin.gov](mailto:DNRGreatWatersWritingProject@Wisconsin.gov)

THE WISCONSIN DNR IS ON



[www.facebook.com/WIDNR](http://www.facebook.com/WIDNR)



[twitter.com/WIDNR](http://twitter.com/WIDNR)



[www.pinterest.com/WIDNR/](http://www.pinterest.com/WIDNR/)



[www.flickr.com/photos/widnr/](http://www.flickr.com/photos/widnr/)



[www.youtube.com/user/WIDNRV](http://www.youtube.com/user/WIDNRV)



ABOVE: "Menekaunee Harbor Restoration"  
 By **CHERYL BOUGIE, DNR**  
 Menominee River in Marinette, WI  
 1st place – Stewardship

# September 2018

## Menekaunee Harbor Restoration

Menekaunee Harbor is at the mouth of the Menominee River where it flows into Green Bay. The harbor was severely affected by excessive sediment contaminated with heavy metals and PAHs as well as wetland habitat loss. The DNR, City of Marinette and U.S. EPA removed contaminated and excess sediment to restore this valuable local resource. The harbor is now cleaner, deeper, and better able to accommodate recreational and commercial fishing boats.

Extensive fish and wildlife habitat restoration was also completed: native vegetation planted, invasives controlled, and habitat structures installed for fish, birds and other wildlife. Wild rice, which is culturally and environmentally important to the area, is being restored to the harbor. Fish passage and overall river connectivity was improved for fish such as sturgeon to thrive.

As a result of this cleanup effort, Menekaunee Harbor was chosen as home base for Cabela's 2017 National Walleye Tour Championship—an event that brings economic prosperity to the area. Watch *Menekaunee—Bringing the Harbor to Life*: <https://youtu.be/d3nLkri-SI8>.

The work at Menekaunee Harbor is part of a larger program to restore the Lower Menominee River Area of Concern. Areas of Concern are found throughout the Great Lakes and are all greatly in need of environmental cleanup and restoration. Cleanup is funded through the Great Lakes Restoration Initiative. To learn more, see: <http://dnr.wi.gov/topic/GreatLakes/aoc.html>.

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY



Photo by HOWARD FRANKIN

AUGUST 2018

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	

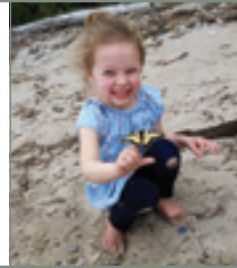


Photo by CHRIS WOLSKI

OCTOBER 2018

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 REGGIE GAUGER

1

2

3

4

5

6

7

8

☾ Last Quarter Moon

Labor Day

9

10

11

12

13

14

15

☀ Rosh Hashanah Begins at Sundown

● New Moon

Patriot Day

16

17

18

19

20

21

22

☾ First Quarter Moon

Yom Kippur Begins at Sundown

Autumn Begins

23

24

25

26

27

28

29

30

○ Full Moon



ABOVE: "Trempealeau Mountain"  
 By **PHILIP SCHWARZ**  
 Perrot State Park  
 2nd place – Natural Features and Wildlife (tie)

**A Walk Through La Crosse River Marsh**

By **EMILY HUTWAGNER**  
 UW-La Crosse student

Stepping onto the trail, I enter a world of only the marsh and me. The pressure and anxiety leave for a brief time as my ears fine tune with the chirps of crickets and hum of cicadas. I pick up certain calls: the quick chirp of a red-winged black bird as it whizzes past, the loud honk from a goose searching for food in the muck. The tremor from a passing train reminds me of the world beyond, calling me back to the reality I am not ready to answer. Light rain drops kiss my cheek. More caress my arm. The marshy surface scatters with small halos as sky meets water. A laugh begins to bubble as the rain taps me playfully. I ignore my raincoat and umbrella, brought in anticipation, and relish the rain's cool touch. I become one with the world around me—as we get wet with the same drops—nature's way of joining us all.

*Emily wrote this piece about the Myrick Park area: a beautifully unique spot bordering La Crosse River Marsh with stunning bluff views and trail access to Hixon Forest. Myrick Park Center hosts year round environmental education and is headquarters to the WisCorps, a nonprofit youth development organization. WisCorps members gain valuable life and employment skills by completing conservation projects on public lands. To learn more, visit: [www.wiscorps.org](http://www.wiscorps.org).*



Photo by **JOHN F. SULLIVAN**

# October 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 <small>Photo by <b>LEANNE C. HINKE</b></small>	2 <small>☾ Last Quarter Moon</small>	3	4	5	6
7	8 <small>● New Moon</small>	9	10	11	12	13
14	15	16 <small>☽ First Quarter Moon</small>	17	18 <small>Clean Water Act Signed in 1972</small>	19	20
21	22	23	24 <small>○ Full Moon</small>	25	26	27
28	29	30	31 <small>Halloween ☾ Last Quarter Moon</small>	<b>SEPTEMBER 2018</b> 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		 <b>NOVEMBER 2018</b> 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

Photo by **JOHN F. SULLIVAN**





ABOVE: "Twilight"  
 By **MARK STRAUB**  
 McKinley Beach, Milwaukee  
 1st Place – Cultural & Historical Features

# November 2018

## The Great Lakes Restoration Initiative at Work in Wisconsin

The Great Lakes have profound effects on Wisconsin's environment, culture and quality of life. Lakes Michigan and Superior provide:

- vital water supply;
- sport fishing opportunities for more than 250,000 anglers, bringing \$252 million to lakeshore communities annually;
- foundation for a \$3 billion tourism industry in lakeshore counties;
- harbors that annually support a \$9.4 billion boating industry;
- a maritime transportation network that annually supports the movement of \$7 billion in cargo through Wisconsin ports.

As these figures show, cleaning up the Great Lakes isn't just about correcting mistakes of the past, but leveraging a vital resource to build a better future.

Wisconsin—along with local communities, tribes, nongovernmental organizations, and businesses—is collaborating with the federal government to restore the Great Lakes. With strong bipartisan support, this partnership is implementing projects that are improving Wisconsin's economy, environment and quality of life. Projects include:

- cleaning up contaminated sediments in toxic hotspots,
- controlling polluted runoff and cleaning up beaches,
- combating aquatic invasive species,
- restoring degraded wetlands, and
- restoring fish and wildlife.

See a map of projects at:  
<https://glrimap.glc.org>.

Learn more at:  
<https://www.glc.org/wisconsin>.

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p><b>OCTOBER 2018</b></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>	 <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Photo by NOEL SKREZKO</p>	<p><b>DECEMBER 2018</b></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 style="writing-mode: vertical-rl; transform: rotate(180deg);">Photo by VICTORIA ALMGREN</p>	1	2	3
4	5	6	7	8	9	10
Daylight Savings Time Ends		Election Day	New Moon			Edmund Fitzgerald Sinks in Lake Superior in 1975
11	12	13	14	15	16	17
Veteran's Day				First Quarter Moon		
18	19	20	21	22	23	24
				Thanksgiving Day Full Moon		
25	26	27	28	29	30	 <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Photo by TRAVIS KLEIN</p>
				Last Quarter Moon		



ABOVE: "Icy Moonrise"  
By **ERIKA REIMER**  
Sheboygan, WI

# December 2018

**The Big Lake – a Poem**  
By **TIM BOYLE**

a beach divides  
the shore from the tides  
in lapping slapping swirling bursts  
and mouths of rivers  
from unquenchable thirsts

tied to the moon  
with invisible string  
this living, seething, intangible thing  
is moving near  
yet back as planned  
pounding rocks into grains of sand

the big lake is hoarse from constant  
laughter  
over playful fetch  
and eminent disaster  
masts tip bells  
way off on the wind  
yet still heard far up on the widow's walk  
while thinking of her kin

for sometimes the water's lots are cast  
for sailors' bones  
for nothing lasts  
for graves of ships  
for misguided maps  
inside the deep, deep down cold  
hiding under innocent white caps

the flow and ebb  
a circle brings  
the seasons turned  
upon its wings  
the currents below  
make the chandeliers creak  
into gaping grinding tinkling teeth

then shiny scales suddenly flash and flick  
anchors drop with a barometer wick  
these mysteries now  
we must abide  
yet taking for granted  
we still take a ride  
we can't hold the tiller or plot a course  
encircled in our wet remorse  
our history lies in your future past  
we're rudderless  
tied to your mast  
staring into inky blackness  
now we can see  
all your secrets are kept  
for eternity

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		<p><b>NOVEMBER 2018</b></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</p> <p>Photo by <b>DONNA FEUERSTEIN</b></p>	<p><b>JANUARY 2019</b></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 <b>REGGIE GAUGER</b></p>		1	Photo by <b>LORRI HOWSKI</b>
2  Hanukkah Begins at Sundown	3	4	5	6	7  Pearl Harbor Day ● New Moon	8  Great Lakes Compact Enacted in 2008
9	10	11	12  Wisconsin Great Lakes Strategy Released in 2005	13	14	15  ☾ First Quarter Moon
16	17	18	19	20	21  Winter Begins	22  ○ Full Moon
23	24	25	26	27	28	29
30	31 New Year's Eve	Christmas Day	Kwanzaa			☾ Last Quarter Moon



ABOVE: "Cold Winter Morning"  
By **MICHAEL J. MARIT**  
Sturgeon Bay, WI

# January 2019

## January at Lake Michigan

By **MARILYN ZELKE WINDAU**

Safe on the shore, I can hear the splash,  
that all-season splash of waves.  
In this time of winter,  
only their sound reaches the shore.  
The waves do not.

Back and forth, the waves build,  
layering their frigid flow.  
They castigate the ice hills,  
the caves they create.  
They work furiously,  
daily adding to their fortresses of cold.

He who dares traverse this waterscape  
will find enemy, not friend:  
shards which shear ribbons from flesh,  
to share red with the icy blue,  
shards which seek to freeze,  
to overwhelm a body's strange warmth.

Alone and lonely, Demeter cries bitter  
frost tears,  
commands the waters to build frozen  
castles  
to house the chill of her grief.  
She waves mercy away,  
inconsolable until springtime.



Photo by **JAMIE SMITH**

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY



Photo by **MATTHEW J. JACOBSON**

1 New Year's Day	2	3	4	5 New Moon
6	7	8	9	10
11	12	13	14 First Quarter Moon	15
16	17	18	19	20
21 Full Moon	22 Martin Luther King, Jr. Day	23	24	25
26	27 Last Quarter Moon	28	29	30
31	<b>DECEMBER 2018</b> 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		<b>FEBRUARY 2019</b> 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	

Remember to submit your best Great Waters photos and writings! See information on the first pages of this calendar. Deadline is February 1, 2019.



ABOVE: "Frozen - The Wisconsin Point Lighthouse"  
 By **KELLY L. JOHNSON**  
 Superior, WI.  
 2nd place – Cultural & Historical Features

# February 2019

## Howards Bay Sediment Cleanup

Howards Bay is an industrial bay in Superior, important for Great Lakes commerce. The only U.S. shipyard above the Soo Locks and the largest grain elevator in the Duluth-Superior Harbor are located here. Industrial pollutants in sediments here restrict dredging activities and threaten ecosystem health.

Cleanup of contaminated sediment will result in a channel deep enough to accommodate large vessels entering the shipyard and grain elevator. To reduce costs, the DNR, Fraser Shipyards Inc., U.S. EPA, and U.S. Army Corps of Engineers are collaborating to address environmental problems and meet maritime shipping needs with a single project.

Pollution cleanup will involve both sediment removal and capping in place. Contaminated dredge material will be properly disposed of at a licensed landfill. Dredged material that meets safety standards will be used to improve the cap and cover at the closed Wisconsin Point Landfill.

Once pollution cleanup and navigational dredging is completed, Howards Bay will be improved for maritime shipping, while also providing important habitat for fish like musky and northern pike and for migratory waterfowl.

This work is part of a larger program to restore the St. Louis River Area of Concern. Areas of Concern are found throughout the Great Lakes and are all greatly in need of environmental cleanup and restoration. Funding for cleanup is provided by the Great Lakes Restoration Initiative and Great Lakes Legacy Act. See: <https://www.greatlakesmud.org/howards-bay---st-louis-river-aoc.html>.

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p><b>JANUARY 2019</b></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><b>MARCH 2019</b></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> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Photo by SCOTT PEARSON</p>		<p>1</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Photo by CHERYL BOUGIE</p>	<p>2</p> <p>Groundhog Day</p>	
3	4 ● New Moon	5 Chinese New Year Year of the Pig	6	7	8	9
10	11	12 ☾ First Quarter Moon	13	14 Valentine's Day	15	16
17	18 Presidents Day	19 ○ Full Moon	20	21	22	23
24	25	26 ☾ Last Quarter Moon	27	28	 <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Photo by SCOTT PEARSON</p>	





ABOVE: "Sea Smoke Sunrise"  
 By **HOWARD VRANKIN**  
 Port Washington, WI

# March 2019

**Walking a Shrouded Shore**  
 By **THOM SINGLETON**

Today the Great Lake is small,  
 A mere pond for all that one can see,  
 Its vastness shrunken by a veil of mist  
 Just offshore.

Interesting stuff, fog:  
 Water wanting to become air,  
 And ending-up neither.  
 But, before one's eyes,  
 Changing all it envelops.  
 Shape-shifting illusions  
 In a whisper of wind.

Boot tracks in the sand.  
 Is that a man up ahead?  
 No...a ghostly tree.  
 Is that land offshore?  
 No...a swirling island of vapor.  
 What is that floating in the murk?  
 A lone gull marks where, in this hazy world,  
 The fog ends and the water begins.

Even fiery old Solius is shrouded today,  
 Cloaked in a sodden grey robe.  
 We know his flames will prevail in the end.  
 Though now, before air becomes just air  
 again,  
 His misty sister rules the shore.

**Frozen Gems**  
 By **THOM SINGLETON**

Bejeweling the winter shore of the great  
 inland sea  
 A luminous strand of frozen water diamonds  
 Gleaming shards of icy light.

Waves rolling in a northeast gale  
 Freezing spray shimmering bright  
 This Great Lake and the Sun  
 Jewelers beyond compare.



Photo by **ERIKA REIMER**

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p><b>FEBRUARY 2019</b></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</p>			<p><b>APRIL 2019</b></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</p>		1	2
3	4	5	6 ● New Moon	7	8	9
10 Daylight Savings Time Begins	11	12	13	14 ● First Quarter Moon	15	16
17 St. Patrick's Day	18	19	20 Spring Begins ○ Full Moon	21	22	23
24	25	26	27	28	29	30
31 ● Last Quarter Moon						







ABOVE: "Dawn At Cave Point"  
 By **MICHAEL KNAPSTEIN**  
 Cave Point County Park, Door County  
 1st place – Natural Features and Wildlife

**Where Lake Meets Sky**  
 By **MARILYN ZELKE WINDAU**

There are days when blues collide:  
 the sky with Lake Michigan.  
 One can't decipher the beginning of one  
 and the end of the other.  
 They merge peacefully, flow quietly into,  
 unite as partners in the levels of universe.

There are days of distinction:  
 Great Lake grey-blue pulls away  
 from pale, almost ailing, sky—  
 not a wisp of cloud,  
 not a blanket-roll of wave.  
 They don't want conversation.  
 They part, separate,  
 to be alone, yet touching.

Sunrise unites them.  
 Daily, the ball of heaven  
 enters their playing field,  
 adds complements of color,  
 orange to their blue.  
 It perks them up.  
 Add cumulus and wind swells,  
 the sky and the lake roll in laughter,  
 tease each other at shore and horizon,  
 capture the comedy of a new day.



Photo by **GWEN SAUER**



Photo by **KELLY L. JOHNSON**

# May 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		APRIL 2019 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 ● New Moon
5 Ramadan Begins at Sundown Cinco de Mayo	6	7	8	9	10	11 ● First Quarter Moon
12 Mother's Day	13	14	15	16	17	18 ○ Full Moon
19	20	21	22 National Maritime Day	23	24	25
26 ● Last Quarter Moon	27 Memorial Day	28	29	30	31	JUNE 2019 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: "Let's Call it a Day"  
 By **JOHN CARDAMONE**  
 Ellison Bay, WI  
 2nd place – People Enjoying our Great Waters

# June 2019

**Tennison Bay Boys of Summer**  
 By **ANGIE GADE**

We love our tech devices and their buzz, bings, and beeps, but we squeal in excitement at the first opportunity to unplug, pack up, and get back to nature. Days are full of exploring trails, animals and woods, riding bikes down to the beach to catch minnows, and board games at our campsite. As the day draws to a close, everyone's excitement grows as we head to the beach for the icing on the cake—sunset at Tennison Bay.

Sunset at Tennison Bay is not easily described, but the closest we can come to putting it into words is that of a celestial experience. The closing of this day gives way to a promise that tomorrow will bring even more amazing wonders, but only if we pause and take time to embrace them.

As I watch our boys skipping stones and gazing in awe at the beautiful display, the true miracle of passing down tradition reveals itself before my eyes. Our parents brought us to Peninsula State Park for as far back as I can recall, to share time together, just as we are doing now with our children. Our boys are sharing memories and experiences with each other that will last a lifetime.

Sharing trips to Peninsula State Park with our children continues to be our favorite annual tradition, as we breathe in the fresh air, create memories with friends and family, and embrace our beloved natural resources.



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						
		MAY 2019 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 ADAM SMITH</small>			JULY 2019 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 GLENN A. GIERECKI</small>	1
2	3 ● New Moon	4	5	6	7	8
9	10 ◐ First Quarter Moon	11	12	13	14 Flag Day	15
16 Father's Day	17 ○ Full Moon	18	19	20	21 Summer Begins	22
23	24	25	26	27	28	29
30		● Last Quarter Moon				









ABOVE: "Sea Cave"  
 By **PHILIP SCHWARZ**  
 Apostle Islands National Lakeshore  
 2nd Place – Natural Features and Wildlife (tie)

**Superior Sunset**  
 By **KYLE BARBER**

The sun sets  
 Across her glistening waters  
 Creating  
 Fiery umber dances  
 Across the deserted glass  
 We watch  
 Every day in awe  
 repeatedly  
 As it disappears  
 Behind our realm  
 For the first time  
 Last time  
 Only time



Photo by **NATALIE MELTON**



Photo by **KATIE FRAUEN**



Photo by **PAM LEDIN**

# August 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p><b>JULY 2019</b></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>			<p><b>SEPTEMBER 2019</b></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>	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 **STEVE BENSING**

Wisconsin State Fair Begins  
 and Runs Through August 11

☾ First Quarter Moon

☽ Full Moon

☾ Last Quarter Moon

● New Moon



ABOVE: "Backwater Exploration"

By **JOHN F. SULLIVAN**

River Alliance of Wisconsin members on a paddling tour of the Black River delta in Pool 7 of the Mississippi River.

1st Place — People Enjoying Wisconsin's Great Waters

**One Day on the Water**

By **PATRICIA WILLIAMS**

A gypsy wind  
passes across liquid stretches  
that glisten  
when morning sun  
penetrates the day.

Clouds gather, water whitens,  
sways in an endless cycle —  
broadcasts the music  
of roaring waves.  
Wind and clouds retreat,  
a night sky, silver-beaded,  
arrives —

the celestial spotlight  
reveals its fullness  
mirrored  
on stretches of water



Photo by **GWEN SAUER**



Photo by **MARC WARREN PONTI**

# September 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY																																											
1	2 Labor Day	3	4	5 First Quarter Moon	6	7																																											
8	9	10	11	12	13 Full Moon	14																																											
15	16	17	18	19	20	21 Last Quarter Moon																																											
22	23 Autumn Begins	24	25	26	27	28 New Moon																																											
29 Rosh Hashanah Begins at Sundown	30			<p><b>AUGUST 2019</b></p> <table border="1"> <thead> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>1</td> <td>2</td> <td>3</td> <td></td> </tr> <tr> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> </tr> <tr> <td>18</td> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td>30</td> <td>31</td> </tr> </tbody> </table>		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		
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><b>OCTOBER 2019</b></p> <table border="1"> <thead> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</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> </tbody> </table>		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			
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 **MARK STRAUB**

Photo by **DONNA FEUERSTEIN**



ABOVE: "Aurora"  
 By **ANGELA BOTNER**  
 Upper St. Croix Lake

**Dissolved Oxygen Titration on Mooningwanekaaning**

(name for Madeline Island in Ojibwe)

By **TOBEN LAFRANCOIS**

Northland College

I fell in love with science and Lake Superior simultaneously at a high school outdoor science course on Madeline Island Lagoon several decades ago. One of my favorite memories was titrating for dissolved oxygen hourly over a 24-hour period to compare the lagoon and the lake—complete with northern lights to help keep me awake. It was an honor to come full circle with the Bayfield Middle School Alternative Education class taught by Jeff Theune.

The outing where this photo (below) was taken was sponsored by the Rivers2Lake Program when I was their teacher mentor in 2017. I also brought along my Wisconsin Sea Grant supported underwater photography team, the Zaaga'igan Ma'iinganag (Lakewolves in Ojibwe) to teach underwater photography and explore connections between nature, resources, and culture. We were collecting water samples to titrate for dissolved oxygen levels when I snagged this unique snapshot of a student working at the interface of the tannic lagoon and Lake Superior.

Rivers2Lake uses the Lake Superior watershed and St. Louis River, its largest US tributary, as a foundation for educator and student learning. The program provides extended training, mentoring and resources to teachers to help them create interdisciplinary hands-on outdoor experiences for students. The Rivers2Lake Program is funded by a grant from NOAA, sponsored by the Lake Superior National Estuarine Research Reserve. The program is a collaboration between many partners and schools. Check it out: <http://rivers2lake.org>.

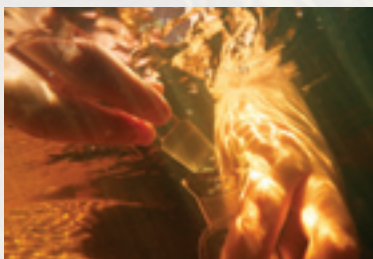


Photo by **TOBEN LAFRANCOIS**

# October 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p><b>SEPTEMBER 2019</b></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 <b>SHERI ERICKSON</b></p>	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
<p>○ Full Moon</p>		<p>Yom Kippur Begins at Sundown</p>			<p>Clean Water Act Signed in 1972</p>	
20	21	22	23	24	25	26
	<p>● Last Quarter Moon</p>					
27	28	29	30	31		
<p>● New Moon</p>				<p>Halloween</p>	<p>Photo by <b>BRIGID J. RIPLEY</b></p>	<p><b>NOVEMBER 2019</b></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>





ABOVE: "Warm November Evening"  
 By **SCOTT PEARSON**  
 Superior WI  
 2nd Place – People Enjoying our Great Waters  
 (tie).

# November 2019

## Industrious Excavators of the Great Lakes

By **DAN BUCKLER**

Don't let anybody tell you otherwise; what I say to you is the truth.

The lakes were excavated by immigrants. No, not those seeking work or fleeing fear, but botanist and zoologist immigrants. These foreigners were tired of the herbarium specimens they received in the north; they wanted to see life, and sought to build a zoo out of the earth. Eschewing the colonial, globe-trotting method of filling zoos with exotic creatures captured from exotic lands (they were too slow to do that anyway), these northerners instead chose to invite the flora and fauna to new habitat.

And so with immigrant pluck they built the arboretums and zoos and aquariums of this region. Kames and kettles, outwash and eskers, expanses of water and glittering seas of sand were all created by these immigrants. "Great beaches," they joked, "do not exist where we come from." But on the cusp of their world shaking endeavor, things changed. Averse to the sun's warmth, they had to flee back to their homeland where they remain, frozen relics of a bygone era.

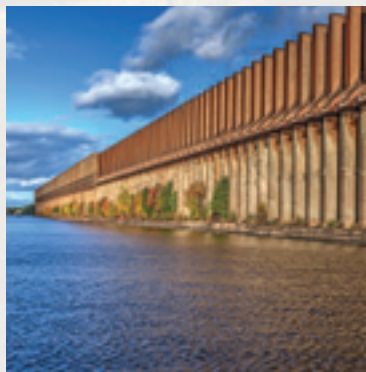


Photo by **PHILIP SCHWARZ**

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY																																																																																			
 <p>Photo by <b>SHERI ERICKSON</b></p>	<p><b>OCTOBER 2019</b></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>	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>Photo by <b>PEGGY CARTER</b></p>	<p><b>DECEMBER 2019</b></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>	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
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																																																																																					
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																																																																																							
3	4	5	6	7	8	9																																																																																			
Daylight Savings Time Ends	☾ First Quarter Moon	Election Day																																																																																							
10	11	12	13	14	15	16																																																																																			
Edmund Fitzgerald Sinks in Lake Superior in 1975	Veteran's Day	☉ Full Moon																																																																																							
17	18	19	20	21	22	23																																																																																			
		☾ Last Quarter Moon																																																																																							
24	25	26	27	28	29	30																																																																																			
		☉ New Moon		Thanksgiving Day																																																																																					





*"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 **DIANE PISPANEN**

*"Rays of Hope at Saxon Harbor" On July 11, 2016 Saxon Harbor Marina was devastated by a flash flood which included one casualty. One year later the photographer took this photo of the sun's rays coming from top of the pavilion that withstood the storm.*



Photo by **GLENN A. GIERZYCKI**

*"Sunrise in Shorewood" The art piece is called "Spillover II" and is located in Atwater Park, Shorewood, on Lake Michigan, a northern suburb of Milwaukee.*



The Wisconsin Department of Natural Resources provides equal opportunity in its employment programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Equal Opportunity Office, Department of the Interior, Washington D.C. 20240.

This publication is available in alternative format (large print, Braille, audiotape, etc.) upon request. Please call 608-266-5228 for more information.

PLEASE OBTAIN WRITTEN PERMISSION TO USE IMAGES FROM THIS PUBLICATION

Wisconsin Department of Natural Resources  
Office of Great Waters  
101 S. Webster St.  
Madison, WI 53707-7921

For more information, visit: [dnr.wi.gov](http://dnr.wi.gov) (search *Great Waters*)

Printed on Recycled Paper  
PUB WT-985-2018

