

## Bortle Scale

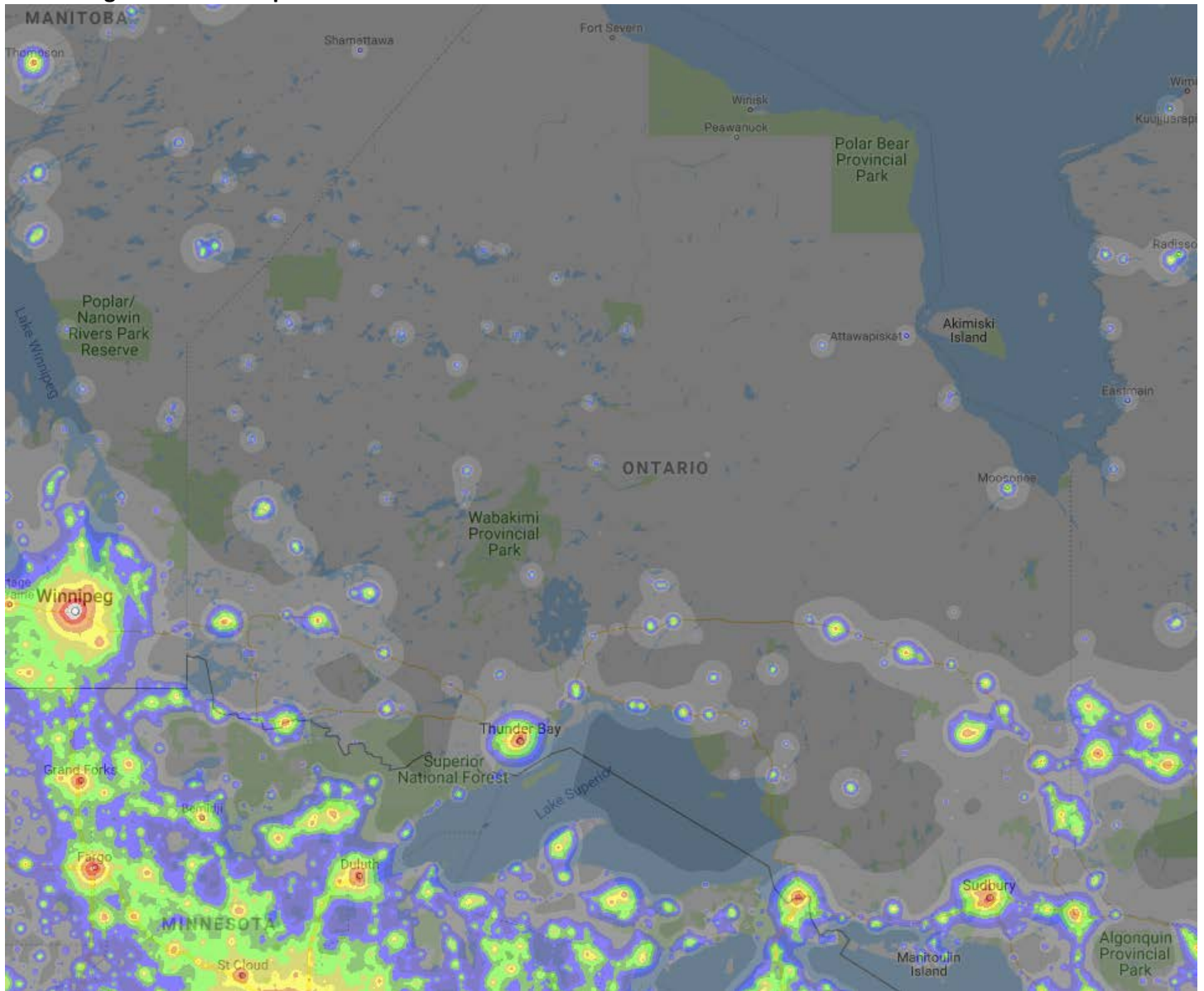
Conditions at Zenith				
Color	Artificial / Natural Sky Brightness	Sky Brightness mags / sq arcsec V Band	Bortle Scale <span style="color: red;">approx</span>	Description (Descriptions are approximate. Your sky may vary.)
	< 0.01	22.00 to 21.99	1	Theoretically darkest sky limited by <a href="#">airglow</a> and starlight
	0.01 to 0.06	21.99 to 21.93	2	<a href="#">Gegenschein</a> visible. <a href="#">Zodiacal light</a> annoyingly bright. Rising milkyway confuses some into thinking it's dawn. Limiting magnitude 7.6 to 8.0 for people with exceptional vision. Users of large dobsonian telescopes are very happy.
	0.06 to 0.11	21.93 to 21.89	2	Faint shadows cast by Milkyway visible on white objects. Clouds are black holes in the sky. No light domes. The milky way has faint extensions making it 50 degrees thick. Limiting magnitude 7.1 to 7.5.
	0.11 to 0.19	21.89 to 21.81	3	
	0.19 to 0.33	21.81 to 21.69	3	The sky is crowded with stars, extending to the horizon in all directions. In the absence of haze the M.W. can be seen to the horizon. Clouds appear as black silhouettes against the sky. Stars look large and close. Low light domes (10 to 15 degrees) on horizon. M33 easy with averted vision. M15 is naked eye. Milky way shows bulge into Ophiuchus. Limiting magnitude 6.6 to 7.0.
	0.33 to 0.58	21.69 to 21.51	4	A glow in the direction of one or more cities is seen on the horizon. Clouds are bright near the city glow.
	0.58 to 1.00	21.51 to 21.25	4	Zodiacal light seen on best nights. Milkyway shows much dark lane structure with beginnings of faint bulge into Ophiuchus. M33 difficult even when above 50 degrees. Limiting magnitude about 6.2 to 6.5.
	1.00 to 1.73	21.25 to 20.91	4.5	21.1: The M.W. is brilliant overhead but cannot be seen near the horizon. Some dark lanes in Milkyway but no bulge into Ophiuchus. Washed out Milkyway visible near horizon. Zodiacal light very rare. Limiting magnitude about 5.9 to 6.2.
	1.73 to 3.00	20.91 to 20.49	4.5	
	3.00 to 5.20	20.49 to 20.02	5	To a city dweller the M.W. is magnificent, but contrast is markedly reduced, and delicate detail is lost. Clouds are bright against the zenith sky. Milkyway washed out at zenith and invisible at horizon. Many light domes. Clouds are brighter than sky. Limiting magnitude about 5.6 to 5.9.
	5.20 to 9.00	20.02 to 19.50	5	
	9.00 to 15.59	19.50 to 18.95	6	M.W. is marginally visible, and only near the zenith. Sky is bright and discolored near the horizon in the direction of cities. The sky looks dull grey. [- Milkyway at best very faint at zenith. M31 difficult and indistinct. Sky is grey up to 35 degrees. Limiting magnitude 5.0 to 5.5.
	15.59 to 27.00	18.95 to 18.38	7	
	27.0 to 46.77	18.38 to 17.80	8	Entire sky is grayish or brighter. Familiar constellations are missing stars. Limiting magnitude from 3 to 4. Telescopic visual observation is usually limited to the moon, planets, double stars and variable stars.
	>46.77	>17.80	9	Stars are weak and washed out, and reduced to a few hundred. The sky is bright and discolored everywhere. Most people don't look up.

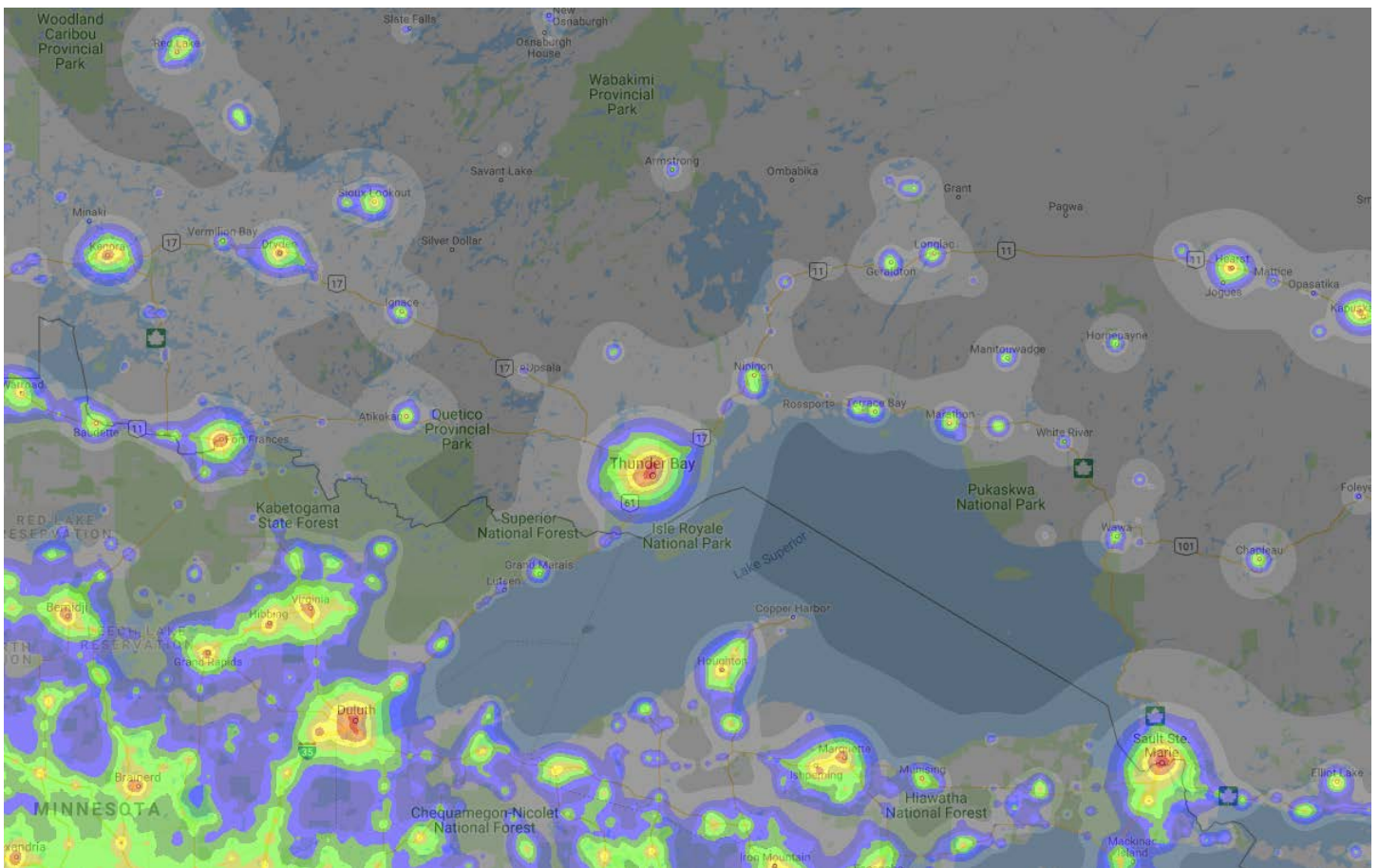
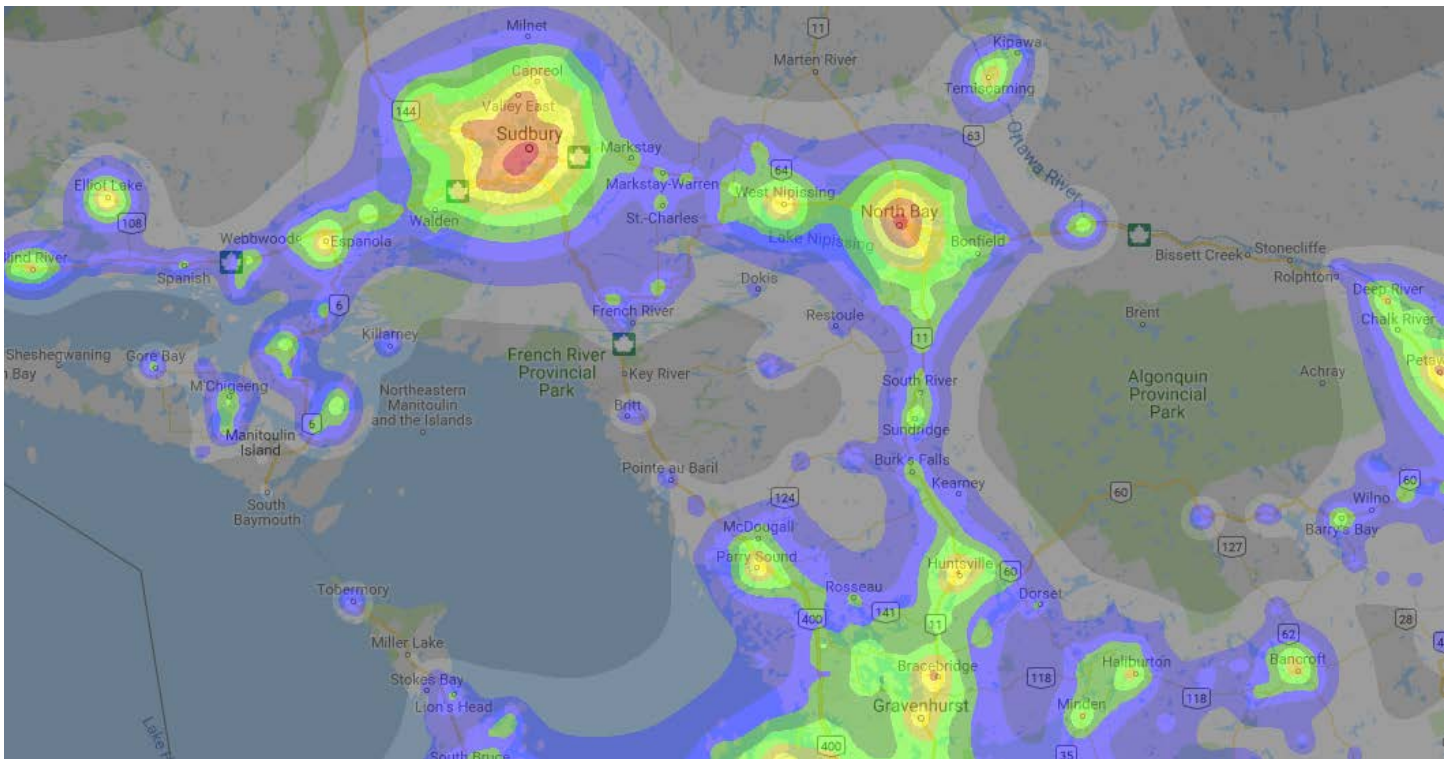
# CANADA

Royal Astronomical Society of Canada

All official Dark-Sky designations. <http://rasc.ca/dark-sky-site-designations>

## Ontario Light Pollution Maps







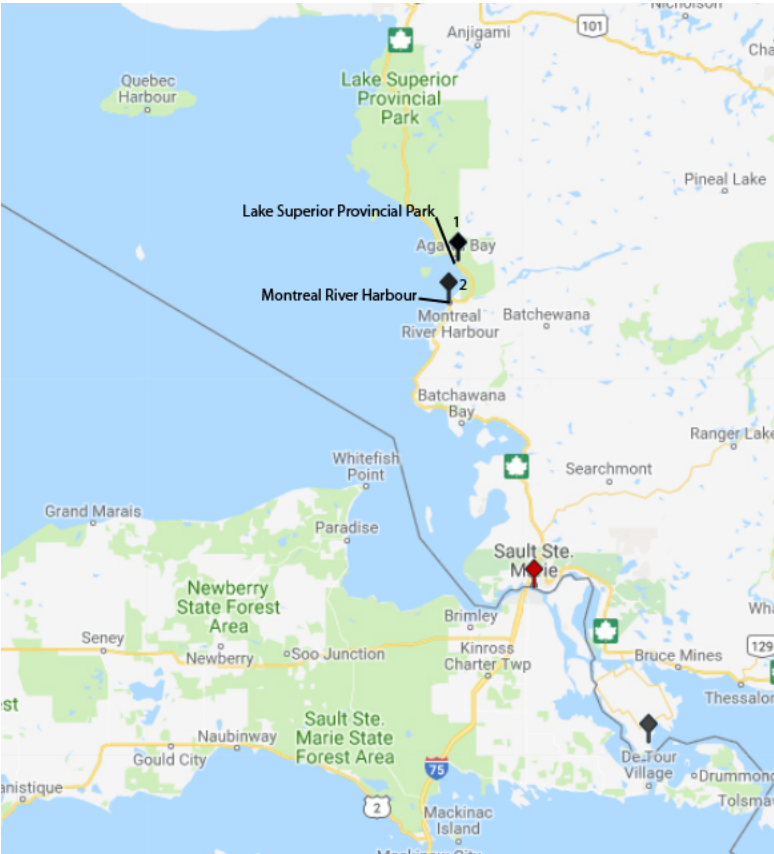
ONTARIO

Ontario Class 1

Lake Superior Provincial Park (Centered on Agawa Bay of the park) 7 hour 40 min drive from Toledo.

<http://www.lakesuperiorpark.ca/index.php/park-info/park-area>

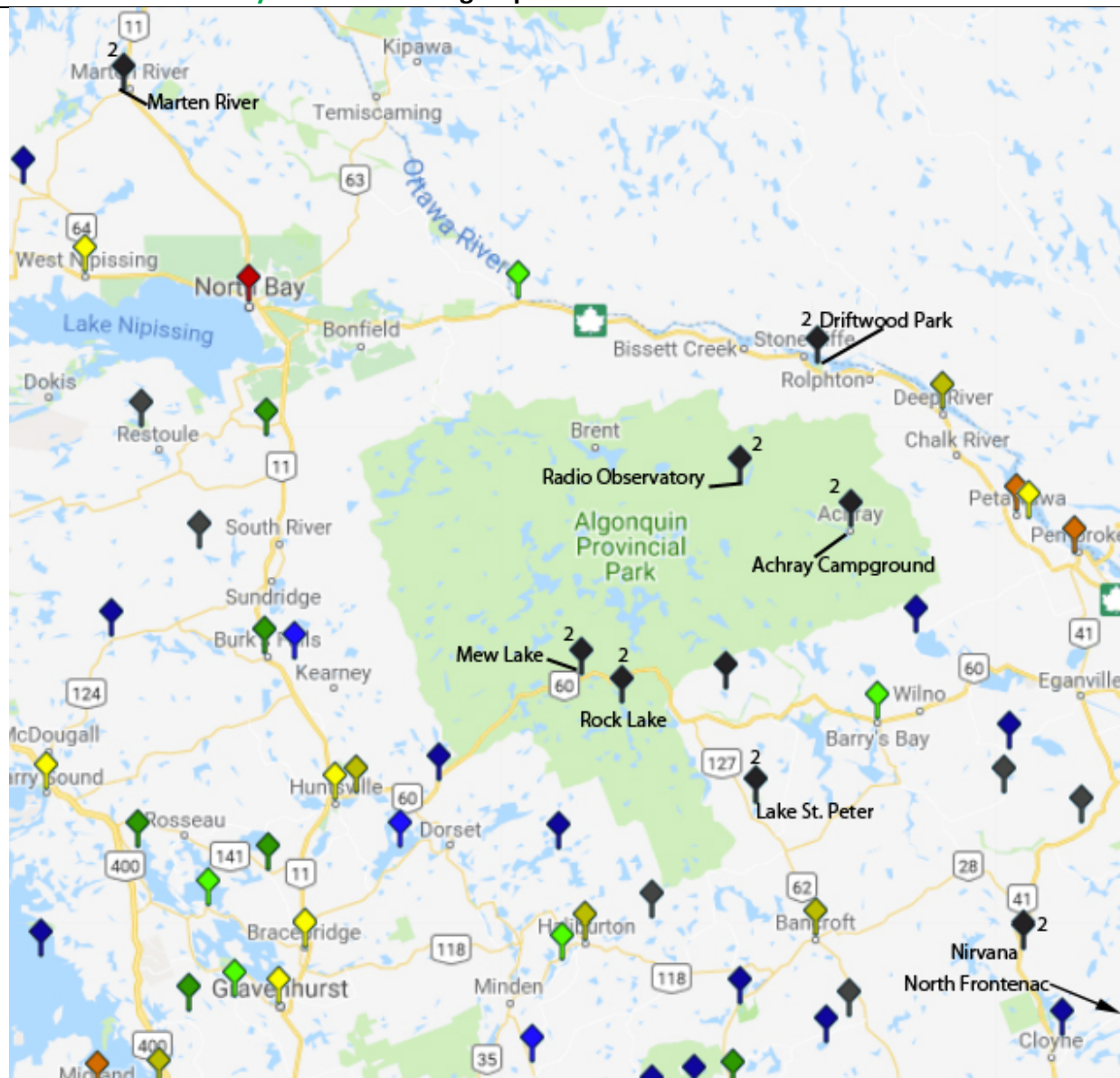
Closest Class 1 to Toledo



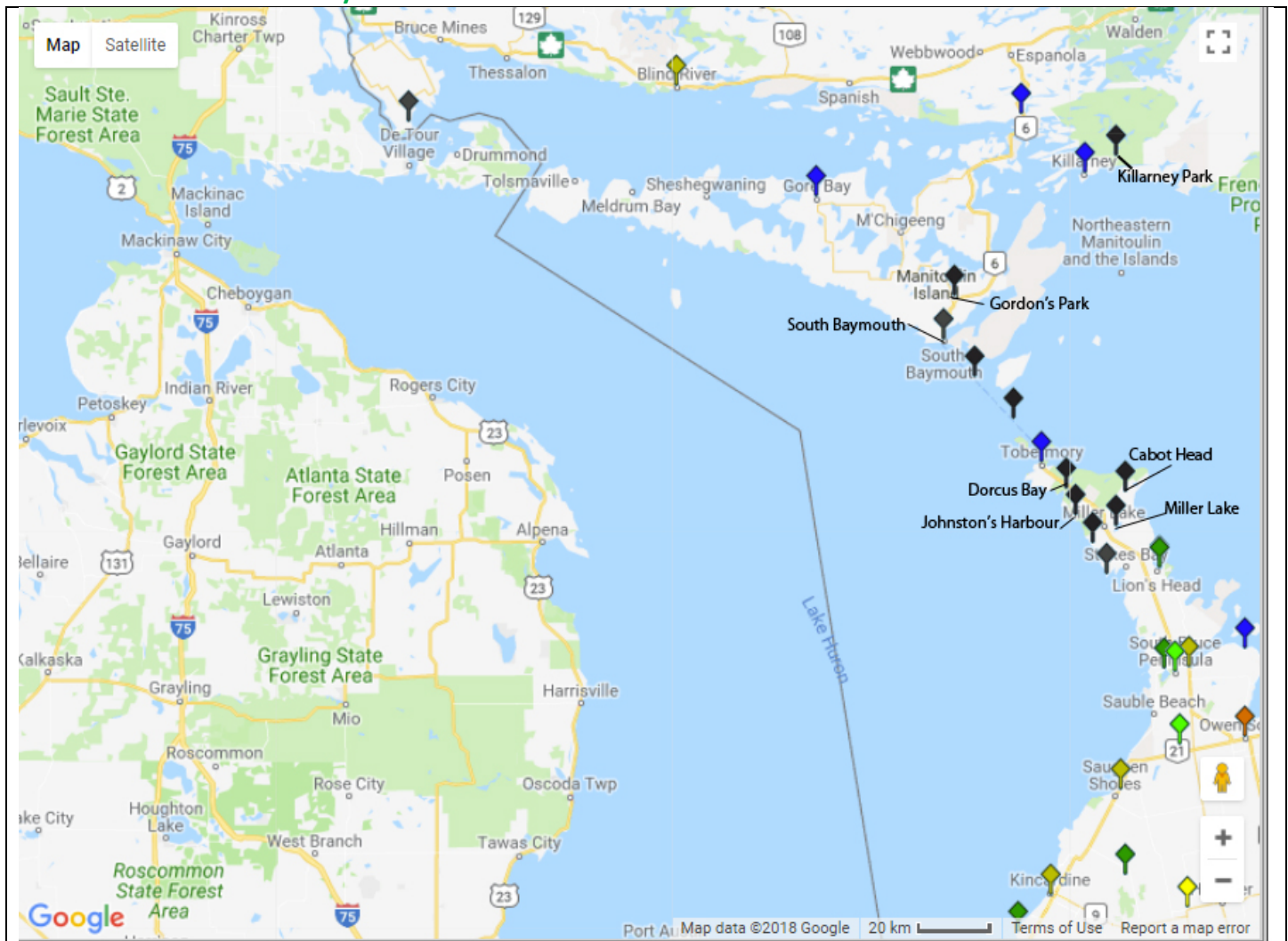
- Gull Bay
- Savant Lake
- Big Trout Lake
- Fort Severn

Gull bay is 16 hours drive





Marten River Provincial Park 8hr 35min drive	Provincial park and star party site of the North Bay Astronomy Club. <a href="http://www.gatewaytotheuniverse.org/">http://www.gatewaytotheuniverse.org/</a>
Driftwood Provincial Park	Provincial Park near Stonecliff, west of Deep River.
Rock Lake	A campground in Algonquin Provincial Park. <a href="http://www.algonquinpark.on.ca/index.php">http://www.algonquinpark.on.ca/index.php</a>
Achray Campground 10hr 35min drive	Campground in the northeast part of Algonquin Park. <a href="http://www.algonquinpark.on.ca/visit/camping/achray-campground.php">http://www.algonquinpark.on.ca/visit/camping/achray-campground.php</a>
Algonquin Radio Observatory	Radio Observatory located in Algonquin Provincial Park. <a href="http://www.arocanada.com">http://www.arocanada.com</a>
Mew Lake Campground 7hr 36min drive	A campground in Algonquin Provincial Park. Home to the Algonquin Adventure, a star party of the RASC Toronto Centre. <a href="http://rascto.ca/">http://rascto.ca/</a> <a href="http://www.algonquinpark.on.ca/index.php">http://www.algonquinpark.on.ca/index.php</a>
Lake St. Peter Provincial Park	
Nirvana	Irvine Lake Airstrip. Near Bon Echo Provincial Park
North Frontenac Dark Sky Preserve	Public observing site with concrete pad for telescopes, power, outhouses and parking. Part of the 1000+ acre North Frontenac Dark Sky Preserve. Located at Plevna/Land O'Lakes (Tomvale) Airport

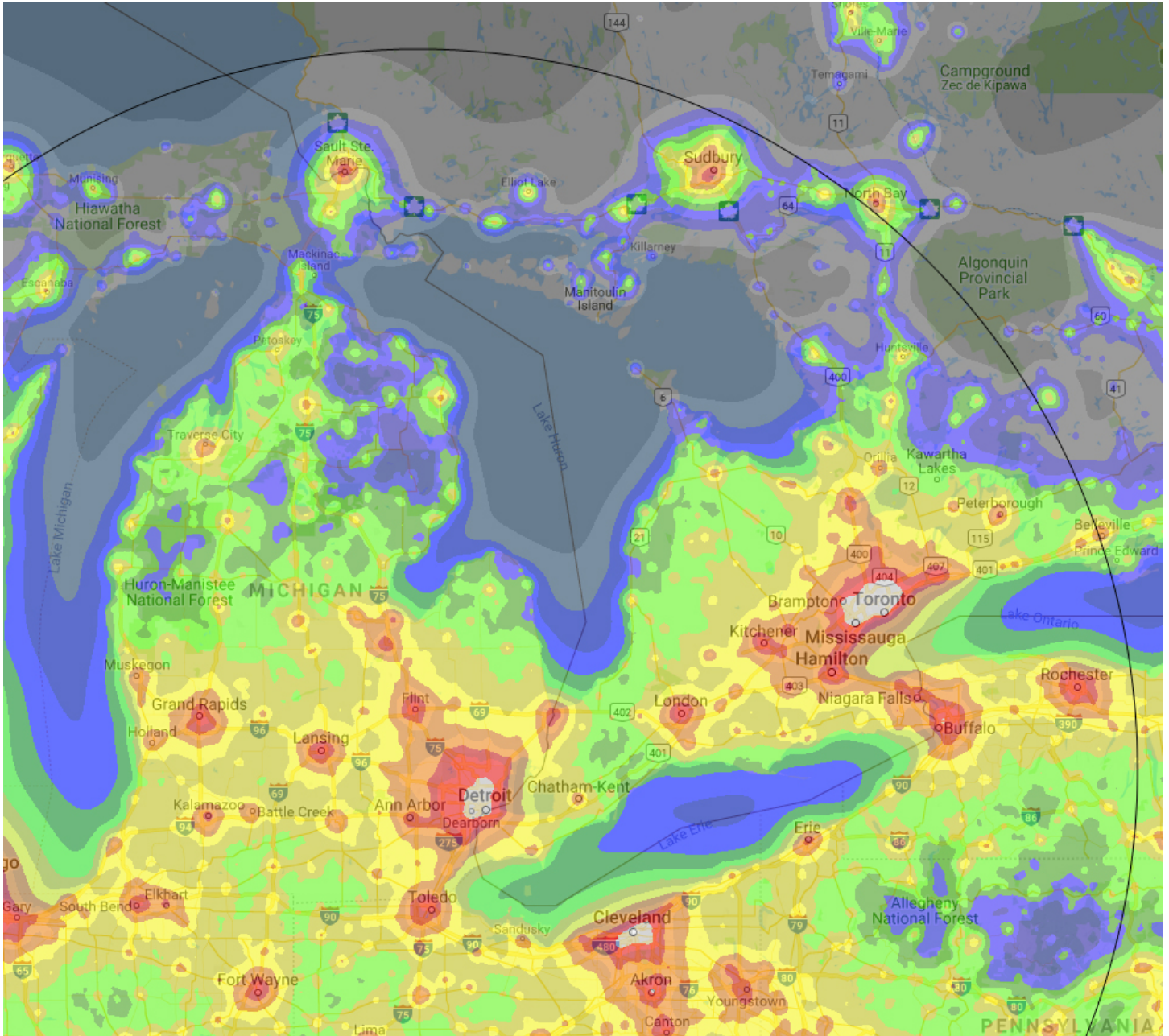


Miller Lake 6hr 10min drive	Forecast covers Summer House Park ( <a href="http://www.summerhousepark.ca/">http://www.summerhousepark.ca/</a> ) and Miller's Family Camp ( <a href="http://www.millersfamilycamp.com/">http://www.millersfamilycamp.com/</a> ) both sites of star parties held by the Bayside Astronomy Program
Cabot Head	Site of the Bruce Peninsula Star Party, aka StarFeast, but also covers the Cabot Head Provincial Nature Reserve Park ( <a href="http://www.ontarioparks.com/en">http://www.ontarioparks.com/en</a> ) and Bruce Peninsula National Park which is a dark sky preserve <a href="https://www.pc.gc.ca/en/pn-np/on/bruce">https://www.pc.gc.ca/en/pn-np/on/bruce</a>
Dorcas Bay	Location of the Singing Sands portion of Bruce Peninsula National Park. Also site of public astronomy events. <a href="https://www.pc.gc.ca/en/pn-np/on/bruce">https://www.pc.gc.ca/en/pn-np/on/bruce</a>
Gordon's Park 9hr drive	A commercial park and dark sky preserve. <a href="http://gordonspark.com/">http://gordonspark.com/</a> Site of the star parties: Stargazing Manitoulin and the Manitoulin Star Party.
South Baymouth 9hr 30min	
Johnston's Harbour	
Killarney Provincial Park Observatory	

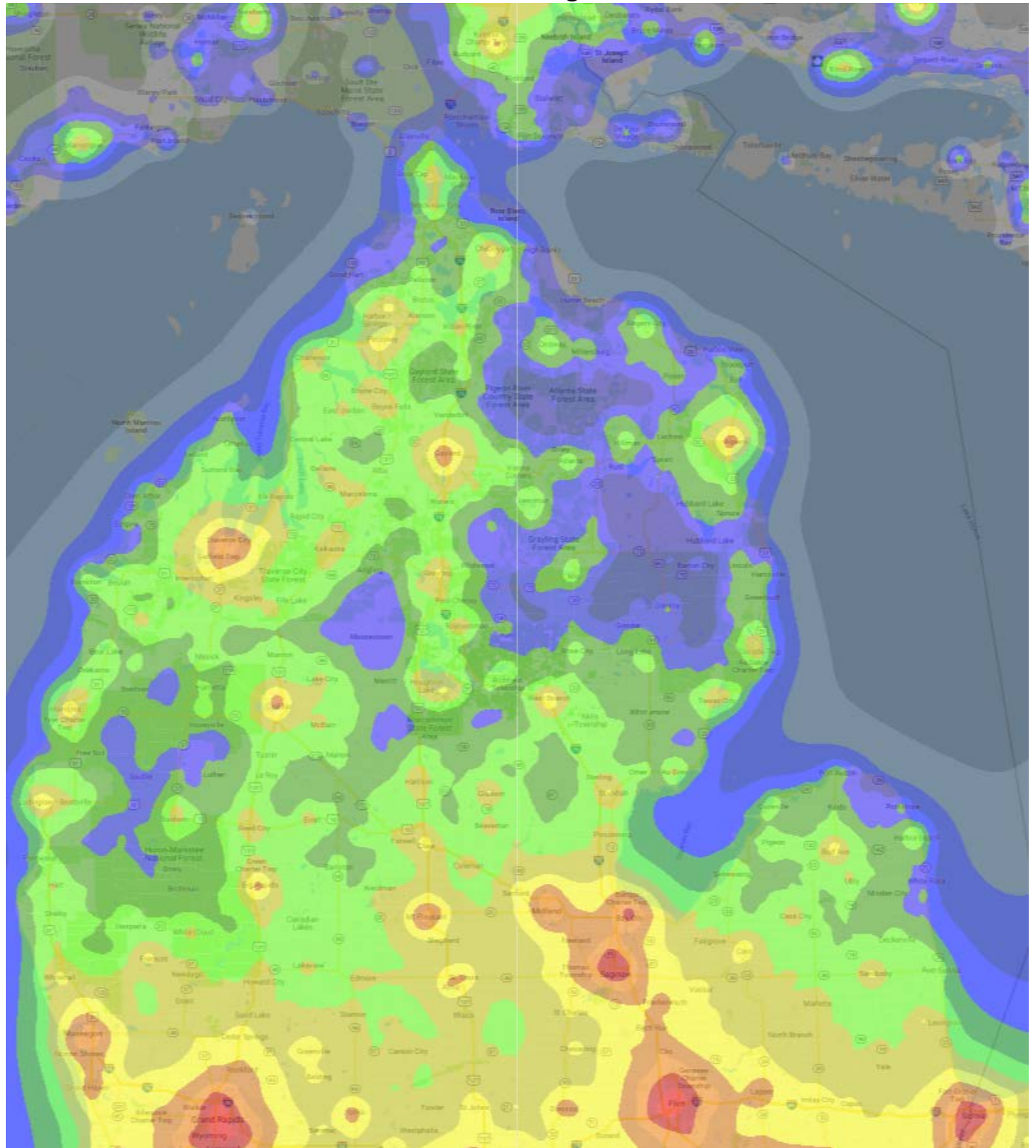


# U.S.A.

Dark Sky within 6 hour drive of Toledo

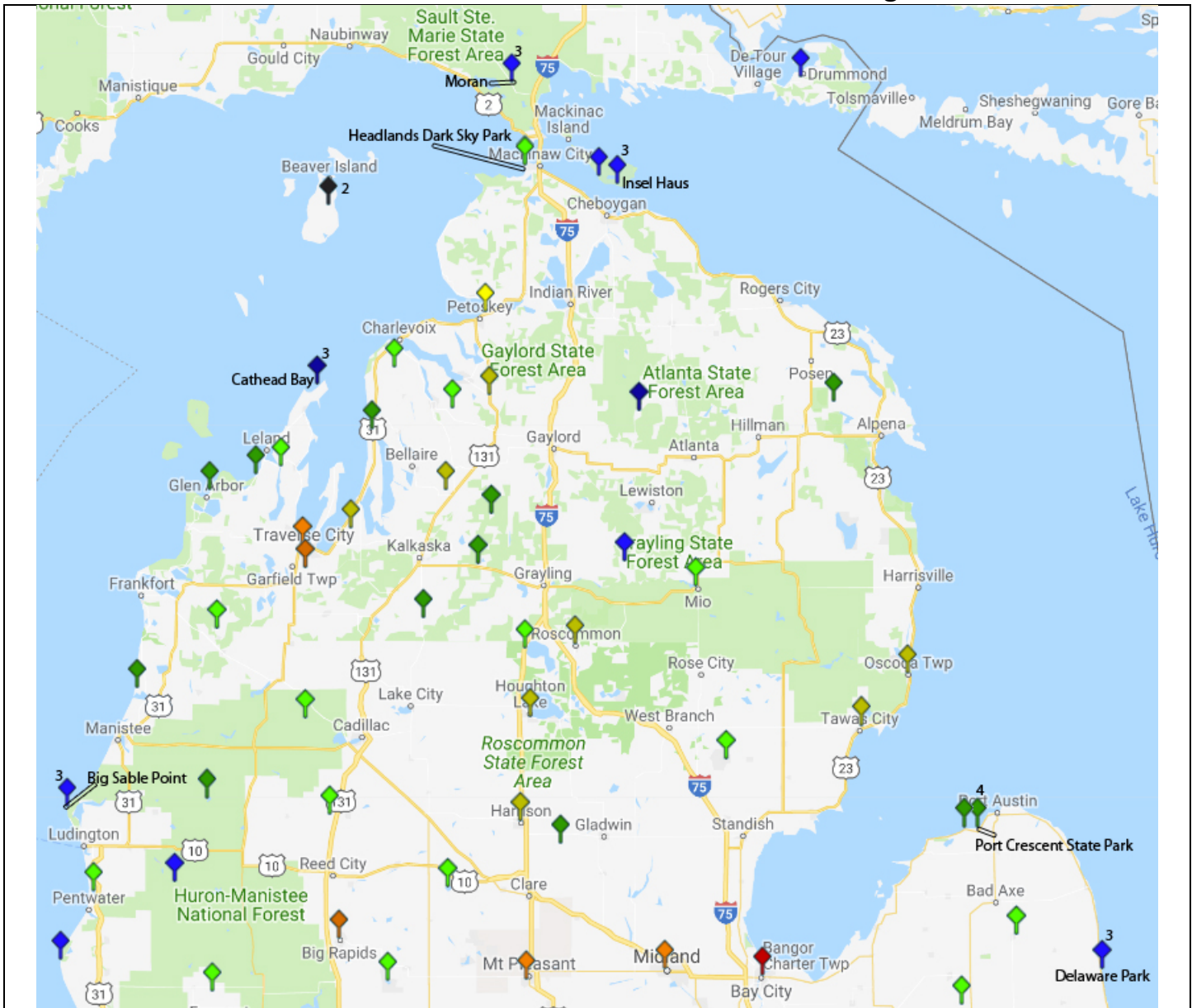


## Lower Michigan

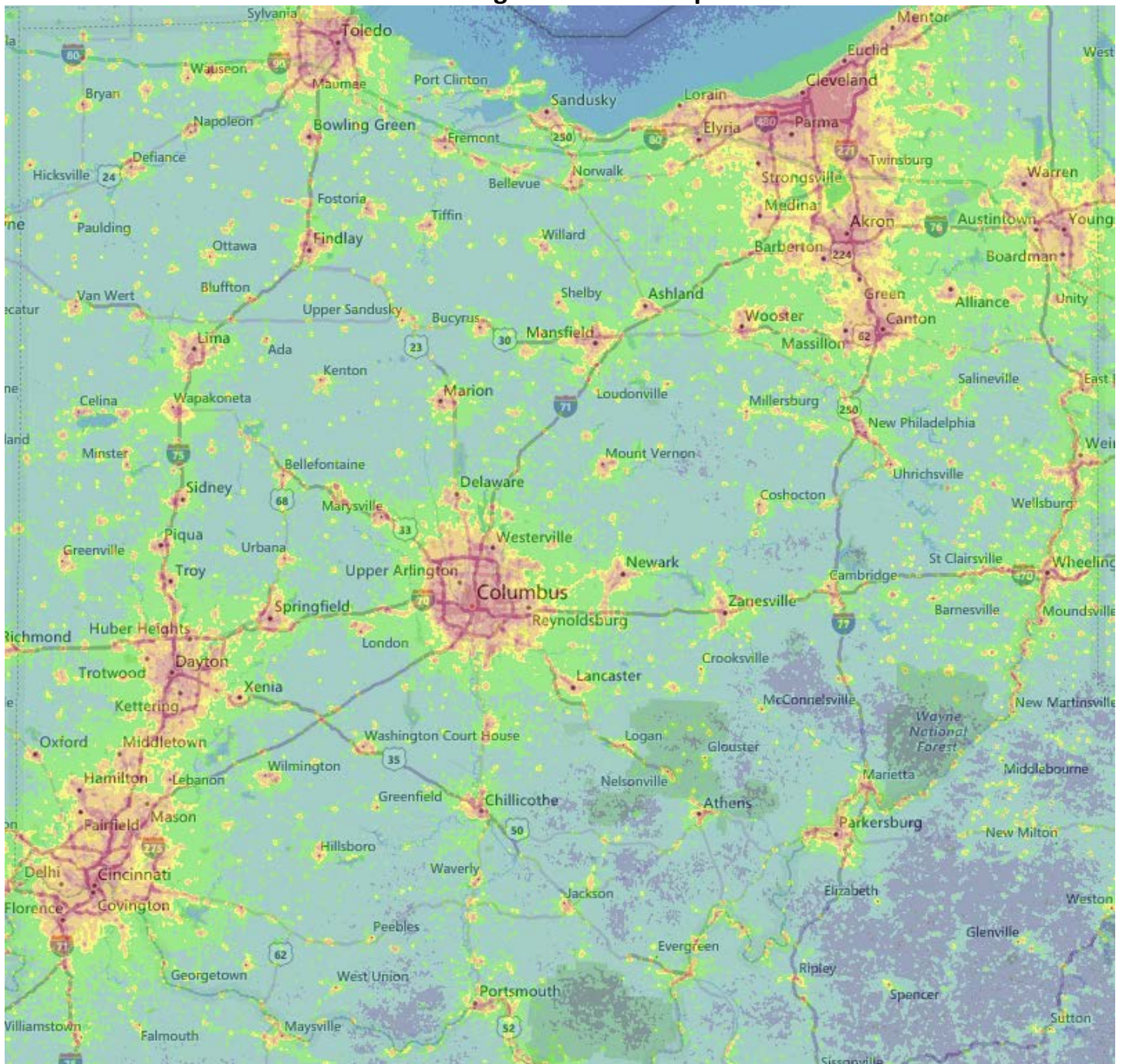




## Public Accessible Sites of Interest in Lower Michigan

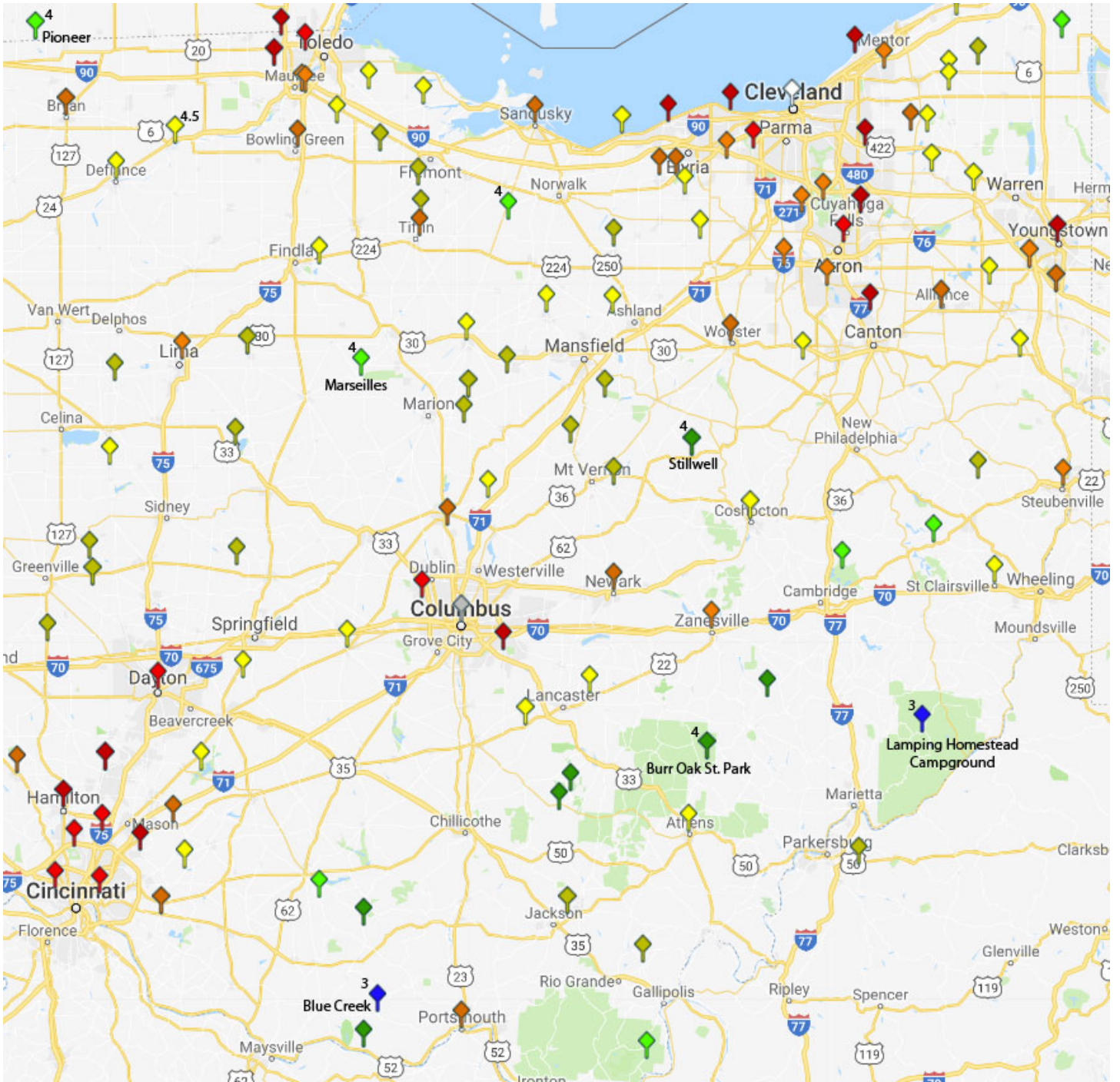


## Ohio Light Pollution Map





## Sites of Interest in Ohio

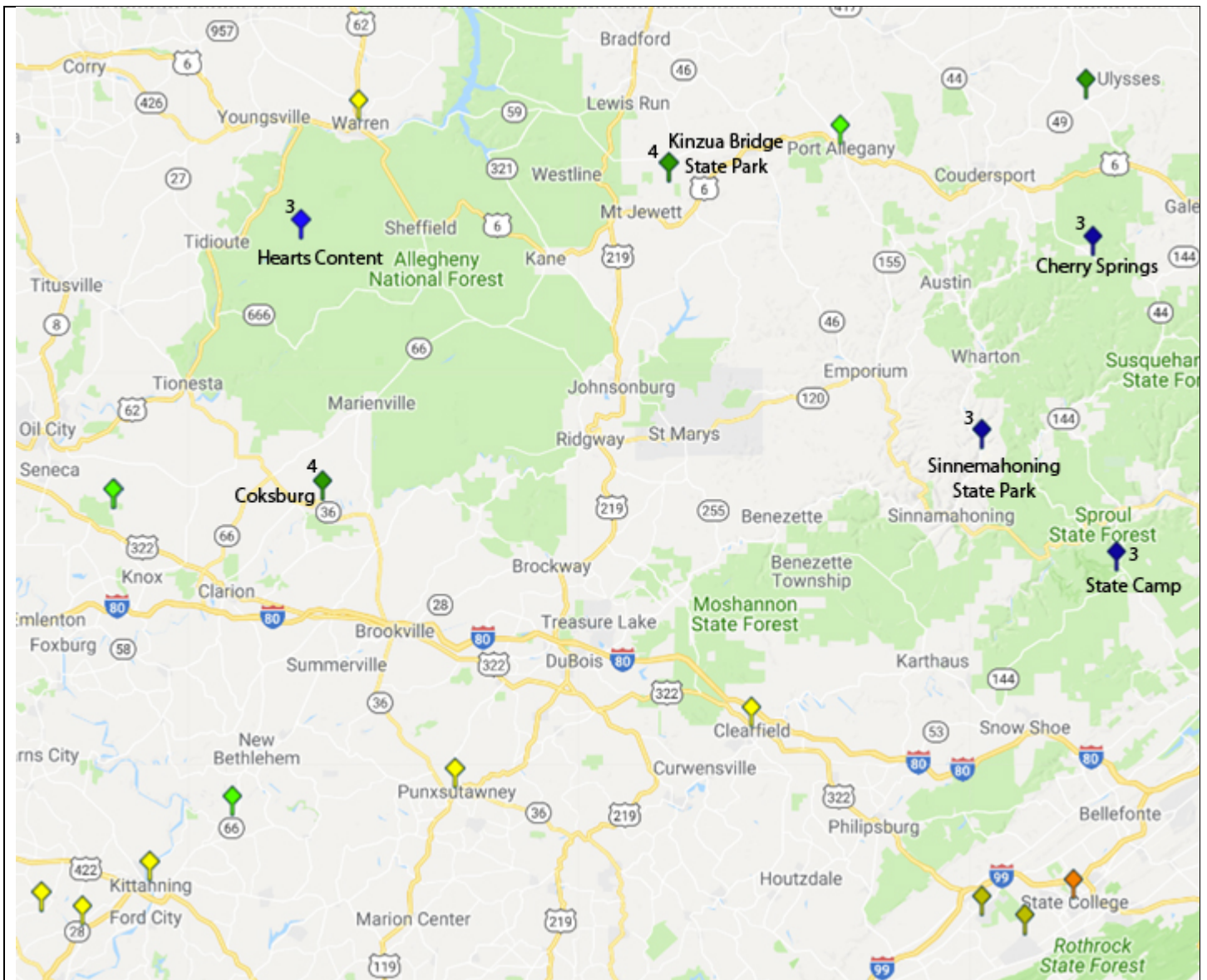




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## Public Accessible Sites of Interest in Eastern PA



(3) Hearts Content 4hr 45min drive	A <a href="#">site</a> used by the <a href="#">Southern Tier Astronomy Recreation Society</a> (S.T.A.R.S).
(4) Cocksburg 4hr drive	Forecast also covers <a href="#">Cook Forest State Park</a> .
(4) Kinzua Bridge 5hr drive	Visitor Center of a <a href="#">state park</a> . Near Mt Jewett.
(3) Cherry Springs 5hr 33min drive	Near Coudersport. An <a href="#">state park</a> with " <a href="#">short term stargazing</a> " and is home of the <a href="#">Black Forest Star party</a> and the <a href="#">Cherry Springs Star Party</a> .
(3) Shinnemahoning 5hr 20min	<a href="#">State park</a> near Austin, PA. <a href="https://pennsylvaniastateparks.reserveamerica.com/camping/sinnemahoning-state-park/r/campgroundDetails.do?contractCode=PA&amp;parkId=880123">https://pennsylvaniastateparks.reserveamerica.com/camping/sinnemahoning-state-park/r/campgroundDetails.do?contractCode=PA&amp;parkId=880123</a>
(3) State Camp 6hr drive	A dark sky site called "State Camp" by members of the <a href="#">Central Pennsylvania Observers</a> . Actually Dennison Overlook in <a href="#">Sproul State Forest</a> .