CENTRAL IDAHO DARK SKY **RESERVE**

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Appendix A

CENTRAL IDAHO DARK SKY RESERVE

CENTRAL IDAHO DARK SKY RESERVE

OUR FIRST YEAR

2017 - 2018



Here in the heart of central Idaho, we celebrate our pristine night sky as an essential part of our heritage and a treasure to be preserved into the future both for our own children and for subsequent generations. The Central Idaho Dark Sky Reserve is a treasured resource for local residents and for all Idahoans and visitors from across the world that come to experience the wonder of the starry night sky. The Gold-tier Reserve is the result of a collective commitment by communities, public land managers, and private landowners to support the dark sky experience.

Designated by IDA in December 2017 the Central Idaho Dark Sky Reserve is the first such Reserve in the United States. Central Idaho constitutes one of the last large 'pools' of natural nighttime darkness left in the United States. The Central Idaho Dark Sky Reserve encompasses 906,000 acres (1,416 square miles) most of which is public lands within the Sawtooth National Forest. The Reserve includes portions of Blaine, Boise, Custer, and Elmore counties, the communities of Stanley, Lower Stanley, Smiley Creek, Ketchum, and Sun Valley.

At its core, the Reserve includes portions of three designated Wilderness areas and is situated in the spectacular scenery of the Sawtooth National Recreation Area (NRA). In 1972, Congress established the 756,000-acre Sawtooth NRA with the passage of Public Law 92-400 which sought to preserve and protect the Area's "natural, scenic, historic, pastoral, and fish and wildlife values and to provide for the enhancement of the recreation values associated therewith." Preserving the natural night sky complements all of these values and contributes to the solitude and primitive quality of the associated Wilderness areas. The designation of the Reserve is a particularly good fit within the Sawtooth NRA, as it supports the area's enabling legislation.

Astro-Tourism

The 2017 solar eclipse captured the imagination and interest of most local residents and thousands of visitors who came to central Idaho to experience it. This heightened interest in celestial events also seemed to stimulate interest in the proposed Reserve and in the incredible night skies in our area. With the designation of the Reserve in December of 2017, it has been a banner year for astro-tourism throughout central Idaho. By working with several partner organizations we have collectively offered 24 dark sky related programs and events throughout the past year reaching just over 2020 participants.

The Reserve includes several separate jurisdictions, which makes it difficult to determine an overall visitation count. The Sawtooth National Recreation Area encompasses the majority of the Reserve's land area and has an estimated annual visitation of 500,000. The Wood River Valley, which includes the cities of Ketchum, Sun Valley, Hailey and Bellevue, attracts over 350,000 out-of-town visitors each year.

This area has a long history as a hub for tourism. While we cannot provide exact visitation numbers to the Reserve itself, anecdotal information indicates that the area has benefited with increased tourism numbers since the Reserve's designation. In talking with visitor center staff throughout the area, all reported substantial increases for inquiries about the Reserve and the dark sky viewing opportunities. We have asked area visitor centers to track dark sky related questions and visitors for the coming year.

Photo Opposite

Oliver Guy

CENTRAL IDAHO DARK SKY RESERVE ONLINE MEDIA

The number of people who appreciate the Central Idaho Dark Sky Reserve has been obvious on social media. While we cannot provide exact visitation numbers to the Reserve itself, Visit Sun Valley, a local marketing company, has provided insight into how many views/hits their various media have received since designation.

Information provided by Visit Sun Valley- a local marketing company.

INSTAGRAM



A moment of zen staring at the Milky Way as it floats above the Garden of Infinite Compassion: Photo: @travisdamick #idahodarksky #seeksunvalley 322 Likes



Happy place. Photo: Don Vilfer #seeksunvalley #idahodarksky

<u>316 Likes</u>

NEWSLETTER & BLOGS

Weekly Newsletter:

~900 people, 40% open rate: Mostly reshares of articles (<u>such as Time</u>)— 10+

Monthly Newsletter:

January: ~30K people, 14% open rate, 138 clicks July: ~26K people, 12% open rate, 38 clicks

Blogs

<u>How To Enjoy The Central Idaho Dark Sky Reserve With The Family</u> 2,097 views (Dec 1, 2017 – Sept 11, 2018)

The Dark Skies Of Sun Valley, ID | 12,316 views (Dec 1, 2017 – Sept 11, 2018)

Things to Do: Central Idaho Dark Sky Reserve | 344 views (Dec 1, 2017 – Sept 11, 2018)



"I know nothing without certainty. But the sight of stars makes me dream." -Vincent Van Gogh Photo: @rayjgadd #idahodarksky 391 Likes



Huge news! America's first
Dark Sky Reserve has been
designated right here in Idaho
and runs right through the Sun
Valley! Photo @rayjgadd
630 Likes



Don't be afraid of the dark. We'll leave a nightlight on for you. Photo: @rayjgadd #seeksunvalley #idahodarksky

812 Likes



"The Earth has music for those who listen." — William Shakespeare Photo: @y.b.r.p #seeksunvalley

226 Likes

Photo Right Oliver Guy



DAHO DARK SKY

WEBSITE

www.idahodarksky.org

The website was created in June of 2018

Since going live, there have been 9,507 visits by 7,500 users.

CURRENT

FUNDING

INITIAL FUNDING

Since designation in December of 2017 the CIDSR advisory group has worked to find funding. We started the year with \$12,000 from individual donors which went to a website, brochures and education/

2019 FUNDING

Blaine County approved \$5,000 of funding or 2019 for education and outreach, and o purchase signage for the Central Idaho Dark Sky Reserve. The group is continuing o research grant opportunities from oundations, corporations and cities.

DECEARC

There are not any current ongoing conservation and/or research programs at the site currently. We have had conversations with Boise State University and the Dark Sky Consortium - both of which are interested in being involved with our efforts.

CENTRAL IDAHO DARK SKY RESERVE

CIDSR LIGHTING PROJECTS

CITIES

Since designation a couple of different lighting projects have been completed in the City of Stanley and Ketchum. Also since December communities around the CIDSR have started looking into dark sky friendly lighting.

STANLEY:

The City of Stanley installed six shielded, dark sky compliant lights at the outdoor ice rink. It is currently negotiating with Lumican, Inc to replace all of the city street lights with 2200K lamps.

• The City of Stanley passed a <u>resolution</u> establishing standards for dark sky compliant outdoor lighting and continues to work on a dark sky ordinance.

KETCHUM:

The City of Ketchum enacted its first dark sky ordinance to curb light pollution and protect the sky in 1999. The city updated its ordinance in 2017 with city initiated text amendments to the City of Ketchum Municipal Code to amend Title 17, Zoning Regulations, by repealing and replacing Chapter 17.132 Dark Skies in order to update and improve the existing ordinance and to align the ordinance with International Dark Skies Association standards so that the city may be eligible for International Dark Skies Community designation

BELLEVUE:

The City of Bellevue is outside the reserve boundary but is working on its light pollution footprint. Bellevue now has a Lumican Dark Sky luminaire pilot in place on Main Street. The 2200 K LED lights have replaced the 4000-6000K white LED that were in Bellevue's decorative crookneck glass globe street lights.

• The City Council may need to contact Idaho Power about retrofitting some of their municipal lighting to comply with the local ordinance.

BLAINE COUNTY:

Blaine County has a Dark Sky Ordinance and we continue to work to seek compliance and enforce the Dark Sky Ordinance.



Photo left

Ketchum, Idaho Oliver Guy

Photo top

Oliver Guy

Photo bottom

Nils Ribi



NON-COMPLIANT LIGHTING WITHIN THE CIDSR

We are continuing to update our lighting inventory of non-compliant outdoor lights by contacting businesses and homeowners about dark sky friendly lighting options and developing a volunteer cadre to help us make these contacts.

One option for businesses and private property owners is to work with their local electric company. The two power companies within the CIDSR, Salmon River Electric and Idaho Power both have incentive programs for energy efficiency retrofits of outdoor lighting. We plan to include information on the Idaho Dark Sky website to help property owners and businesses understand these programs, find appropriate retrofits, and apply for available incentives.

ADJACENT AREA LIGHTING

The Reserve designation provides an opportunity to talk with Boise, Twin Falls and Idaho Falls about light pollution and its impact to their areas and impacts within the Reserve. In the future it would be great to work with these cities to lower their light pollution footprint.



SKY QUALITY **READINGS**



NORTHERN ALPINE LAKES

SAWTOOTH WILDERNESS

JULY 6, 2018

Readings: 21.79 and 21.71 SQM

Source: Josh Johnson



LEGGIT LAKE SAWTOOTH WILDERNESS

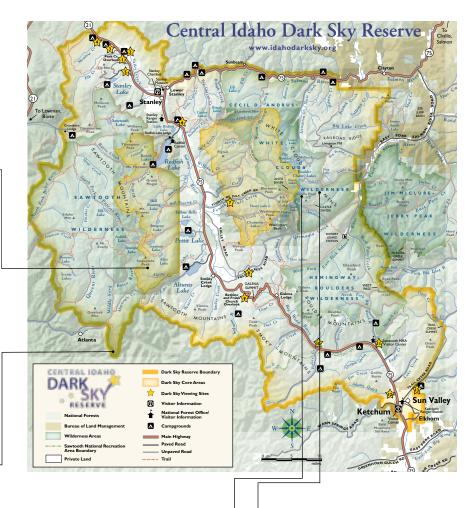
AUGUST 26, 2018

Reading: 18.67 SQM

Source: Barry Miller

Over the past year we have had a few volunteers help with Dark Sky readings. In the future we hope to create a monitoring program.

Currently there is no permanent sky monitor but we hope to have one in the future.





QUIET LAKE WHITE CLOUDS WILDERNESS

JULY 21, 2018

Reading: 21.67 SQM

Source: Josh Johnson



BAKER LAKE WHITE CLOUDS WILDERNESS AUGUST 17, 2018

Reading: 21.78 SQM

Source: Don Weber



That such truly dark nighttime environments still exist in the United States is remarkable, but even more impressive is the effort undertaken to protect them in this case.

> International Dark Sky Association **Executive Director** J. Scott Feierabend

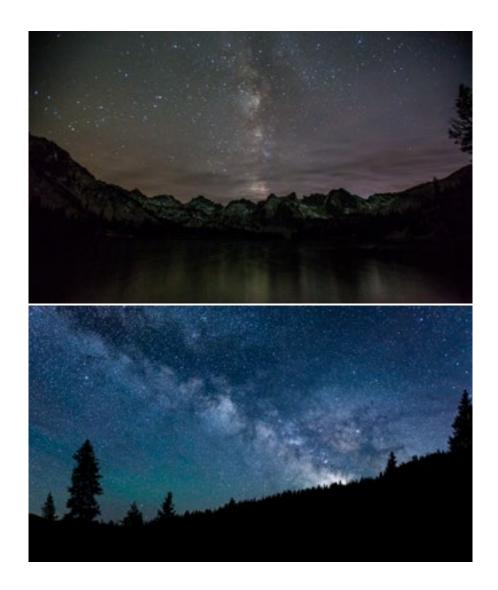




Photo top left Ed Cannady Photo bottom left Nils Ribi Photo right Kim Jacobs

ART & **CULTURE**

We have collaborated with local festivals, non-profit organizations, artists, and national non-profits over the past year. We believe there is a strong connection between arts and culture and dark skies and look forward to identifying more opportunities for collaboration in the future.

LOCAL CULTURAL EVENTS AND COLLABORATORS

- Sun Valley Summer Symphony
- Sun Valley Center for the Arts
- the Reserve and light pollution in their packets for attendees.
- Both the Sawtooth Interpretive and Historical Association and the Sawtooth Botanical Garden offered programs on astrophotography. Local photographers shared information about appropriate camera and telescope equipment as well as framing, location and other factors to consider in making night sky photos.
- We are exploring options to work with Michael Marlin, the creator of Luma: Art in Darkness, a performance art light show, as part of a Dark Sky event in 2019.

• CIDSR has submitted a proposal to the WOW: The Generosity Project. WOW connects local nonprofits with all K-12 classrooms • The Sun Valley Writers Conference included information about in the area to offer hands on service projects. We identified a range of projects that include creating community outreach art projects and assisting with our monitoring efforts. More information can be found on the WOW website.

CENTRAL IDAHO DARK SKY RESERVE

EDUCATION & OUTREACH

•

The Central Idaho Dark Sky Reserve produced a brochure about the Reserve and created a website, both of which serve as our main outreach vehicles. The brochures were distributed throughout the local and regional area and provide an overview and map of the Reserve. Our initial printing of brochures is nearly gone so we will need to find additional funding to reprint them. The website offers a more fluid option for providing updates and additional information.

CIDSR sponsored or worked with partners to provide a wide variety of programs and events throughout the year. While some of our partners had already been offering occasional night sky programs, with last year's eclipse and the designation of the Reserve, there have been more interest in astronomy and dark sky related programs. We estimate that approximately 2,000 people were reached through all the programs and events. Most of the programs took place within the Reserve boundaries or in an adjacent community but we also provided a few programs in Twin Falls and Boise.

HIGHLIGHTS

- The Sawtooth Interpretive and Historical Association (SIHA) our primary education partner offered three Dark Sky related programs as part of their popular Forum and Lecture Series at the Stanley Museum. Local astronomer Dr Tim Frazier talked about spring constellations. Nils Ribi shared his amazing photographs of the night sky and provided pointers on astro-photography. Heidi Ware with the Idaho Birds Observatory talked about "Songbirds and Stars", weaving an intriguing story about how wildlife depend on dark skies to migrate at night.
- SIHA also offered informal New Moon Star Parties each month during the summer led by their naturalists and board members in various locations around Stanley.
- The Sawtooth Botanical Garden is just outside the boundaries of CIDSR but is an important education partner. Their Astronomy in the Garden series offered four dark sky related programs. Each program included a short presentation inside about various astronomy topics and then stargazing opportunities with several telescopes to round out the night.
- The City of Ketchum and CIDSR hosted two Solstice Festivals one in December and one in June to celebrate all things astronomical with food and beverage vendors, live music and guest speakers.
- The Hailey Library contacted Steve "Dr. Dark" Pauley to request a presentation about CIDSR, local lighting ordinances, and light pollution impacts.
- Dr. Dark also provided a program and guided stargazing for a group of travel writers in the area who were working on a story about

Photo top
Carol Cole
Photo bottom
Oliver Guy



the Chevy Bolt. The group had good things to say about their driving experience and great things to say about seeing the Perseids streak across the stunning dark skies of central Idaho.

- CIDSR set up an information booth at the Salmon Festival sponsored by Idaho Rivers United at the Stanley Museum in August. We offered kids activities and talked with lots of folks about the importance dark skies, impacts of light pollution, and ways they can help. Brochures provided by IDA for this event were much appreciated by the attendees.
- Sun Valley Trekking a local outfitter and the Idaho Conservation League offered a Yurt Adventure Under the Dark Sky during the Perseid meteor shower. A small group of hardy stargazers enjoyed the Perseids with local astronomer Dr Matt Benjamin as their guide.
- We provided a program for the Ketchum-Sun Valley Rotary about the Reserve and the impacts of light pollution at their September 2018 meeting.
- The City of Stanley offered two dark sky related programs this year:

 Dr Brian Jackson with Boise State University presented a

 program about the science of planetary exploration in July and hosted a star party later that night. We were able to see a surprising number of stars given the smoky conditions. The smoke also provided a great viewing opportunity of the full moon.

-In August Dr Matt Benjamin hosted a star party at the Stanley Pioneer Park during the Perseid meteor shower. Again we lucked out with an evening that started out cloudy and slightly smoky but ended up with amazing views of the Milky Way and meteors plus out-of-this-world views of Venus, Jupiter, Saturn, and Mars.



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MEDIA RELATIONS & **COMMUNITY**

CIDSR ORGANIZATION

Many Reserves that already had an established central organization in place (park, chamber/tourism board, observatory, etc) are able to move forward with that organization maintaining the lead role once the reserve is established. Since CIDSR did not have an identified lead agency or organization, the advisory group is currently determining the appropriate structure for our group. We are considering options for establishing 501(c)(3) status. We're also developing an MOU to define the working relationships between the jurisdictional entities within the Reserve that are actively involved with the advisory group – the cities of Stanley, Ketchum and Sun Valley, Blaine County, and the US Forest Service.

NEW TERRITORY ADDED TO THE RESERVE

- · No new territory will be added to the CIDSR this year. We work closely with Ketchum, a Dark Sky Community located within the Reserve and have a good working relationship with Craters of the Moon Dark Sky Park located a short distance south of the reserve boundary. We have talked with the Dark Sky Park about opportunities to coordinate our outreach and education efforts.
- There have been several conversations with communities that surround the reserve about working on reducing light pollution and being included in the reserve in the future. The Blaine County Commissioners have expressed an interest to expand the Reserve boundary within the county so we will continue to explore that possibility with them in the future.

MEDIA COVERAGE

Media interest and numerous features about the Reserve have been steady since the pre-designation buzz about becoming the first Dark Sky Reserve in the Untied States and continuing with national and international coverage throughout this first year. Feature stories and interviews on a wide range of topics about the Reserve have appeared in print, television, radio and on-line media outlets including the New York Times, Space.com, National Public Radio/ Morning Edition, Smithsonian, and most recently in TIME's list of the World's Greatest Places 2018. A list of media coverage is included in Appendix A.





Can't go to space? Try Idaho. Last year, a 1,400-sq.-mi. region in the central part of the state became the first site in the U.S.—and only the 12th in the world—to be named a Dark Sky Reserve by the International Dark-Sky Association, meaning that its traits (clear air, 10,000-ft. elevation) are ideal for stargazing. Local officials pledged to take measures to limit light pollution, including shielding the tops of streetlights.

- TIME: World's Greatest Places 2018

Photo left page Oliver Guy

Photo right page Ed Cannady

LOCAL GOVERNMENT, COMMUNITY ORGANIZATION & PRIVATE LANDOWNER ENGAGEMENT

CITY OF KETCHUM

Since the Central Idaho Dark Sky Reserve was designated, the City of Ketchum has focused its efforts enforcement. At Summer and Winter Solstice events, promotional materials about the CIDSR have been available for the public. Stephen "Dr. Dark" Pauley has also spoken at City events about the Reserve. A map and poster about the Reserve is displayed at Town Square in a prominent location to increase awareness of the Reserve among visitors to the community. On April 16, 2018, City of Ketchum Planning and Building staff members participated in a workshop titled Preserving and Enhancing our Dark Skies: A Presentation to Builders, Architects, Designers and Property Managers. This presentation included benefits of dark skies as well as how to comply with Ketchum's exterior lighting standards, the City of Ketchum requires that any time a building permit is pulled, exterior lighting must be brought into compliance. This helps to group in the planning and management of CIDSR since ensure that older light fixtures are updated to be more Dark Sky friendly. Lastly, the City of Ketchum utilizes a complaint-based process to bring other light fixtures up to compliance. When a complaint is lodged, City Community Services Officers investigate and determine install viewing site signs at those locations when the if remediation is necessary. All of these steps ensure that Ketchum is doing its part to maintain and improve the Central Idaho Dark Sky Reserve.

CITY OF SUN VALLEY

The City of Sun Valley continues to support the Dark Skies designation and attend regular meetings between and landowners as well as assessing our own existing the various entities. The city continues to monitor and ensure compliance of our dark sky ordinance and has conducted research on options for signage throughout the City. We also have a link on our website about the designation, sent an e-blast to all of our citizens informing them of such designation, have fliers in our lobby for citizens, and participated in the planning and assisted with the designation event in December.



The Forest Service has been involved with the working we started to collectively discuss the potential Reserve. We identified recommended viewing locations throughout the Sawtooth NRA and Ketchum Ranger District to be included on the Reserve map and will signs are ready.

Sawtooth NRA and Forest representatives have met with Regional and Washington Office officials and are planning an agency-wide Dark Sky call in October 2019. Kirk Flannigan, the Sawtooth NRA Ranger also worked with the regional office to produce a short video about the Central Idaho Dark Sky Reserve in cooperation with

The Forest Service is working with permit holders outdoor light fixtures and lighting needs to help promote dark sky compliant lighting. The Sawtooth NRA also hosted a CIDSR Star Night in April during Dark Sky week. Unfortunately, it was a cloudy night which resulted in a lively indoor discussion about the history of constellations, creative ways to reduce light pollution, local lighting ordinances, night sky apps, and the merits of a local brewery creating a Dark Sky beer.

LOCAL GOVERNMENT, COMMUNITY ORGANIZATION & PRIVATE LANDOWNER ENGAGEMENT CONTINUED

BLAINE COUNTY

Blaine County has been an active member of the Central Idaho Dark Sky Reserve (CIDSR) working group since our community had the idea of creating a dark sky reserve, and we have continued to remain engaged since the CIDSR was designated by the International Dark Sky Association in December, 2017. After the CIDSR was established, the CIDSR working group began to diligently work to bring awareness of the CIDSR to the entire area and its visitors, so that the local residents and visitors will understand the purpose and value of the CIDSR, how to best enjoy it, and what people can do to protect and preserve the CIDSR. These efforts have included creating a brochure, launching a website, producing United States Forest Service video, participating in a HBO show, and planning signage.

The working group has also planned CIDSR educational and engagement or outreach activities. Along these lines, Blaine County specifically planned and funded an evening presentation and entertainment by Michael Marlin on the value of protecting our night sky for the National Association of Counties Western Interstate Region (WIR) Conference in May, 2018 in Sun Valley. The WIR presentation and entertainment highlighted the newly designated Central Idaho Dark Sky Reserve. It was also sponsored by Lumican, a lighting company that promotes dark sky compliant lighting and provides real tools for local communities to preserve their night sky. WIR is comprised of the county elected officials in the western United States. Therefore, this educational and outreach activity not only brought awareness of the CIDSR, but it emphasized the true importance of protecting and preserving the night sky everywhere to many western county elected officials and leaders.

In addition to actively participating in the working group and its activates, and hosting an educational event at the WIR Conference, Blaine County also approved \$5000 of funding in our fiscal year 2019 for education and outreach, and to purchase signage for the Central Idaho Dark Sky Reserve.

Lastly, Blaine County has a Dark Sky Ordinance and we continue to work to seek compliance and enforce the Dark Sky Ordinance. These efforts help to ensure that the Central Idaho Dark Sky Reserve is protected long into the future. Blaine County's commitment to preserving our dark night sky and the CIDSR are highly valued by our public as indicated in this email from a happy resident to Blaine County's code enforcement officer.



Photo

Nils Ribi

DARK SKY ORDINANCE SUPPORT LETTER

SENT TO BLAINE COUNTY
JUNE, 2018

Thank you so much for enforcing the dark sky ordinance on our neighbor at -----. It has made ALL the difference in our home enjoyment.

She has taken down all of her all night lights- for now- and we hope this is permanent- will let you know if she brings them back in the future.

Did you know that Dr. Dark (Stephen Pauley) is a good friend of our and we have honored him at an event we hosted for his contribution to our Community.

Best wishes,

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APPENDIX



APPENDIX A

Since designation a couple of different lighting projects have been completed in the City of Stanley and Ketchum. Also since December communities around the CIDSR have started looking into dark sky friendly lighting.

MEDIA COVERAGE OCTOBER 1, 2017 - SEPTEMBER 30, 2018

- The best new tourist attraction in every US state: Idaho: Central Idaho Dark Sky Reserve, MSN, April 18, 2018
- Heart of Darkness: Idaho's New Dark-Sky Reserve, Northwest Travel & Life, 2018
- 10 Incredible Nighttime Adventures That Take Stargazing to New Heights, Travel & Leisure, May 1, 2018
- Latest: Idaho gets nation's first International Dark Sky Reserve, High Country News, Jan. 8, 2018
- How Americans lost the stars and how we might be able to get them back, Washington Post, Oct. 13, 2017
- We Watched the Perseid Meteor Shower from the 1st Dark Sky Reserve in the US, space.com, Aug. 22, 2018
- CLEAR, DARK SKIES ARE DISAPPEARING IN THE U.S. EXCEPT IN RURAL IDAHO, VICE News, Jan. 7, 2018
- Dark skies create bright tourism opportunities for Idaho, Las Vegas Review Journal, Nov. 4, 2017
- Idaho continues to grow as a dark sky destination with new designation, Lonely Planet, Nov. 7, 2017
- Idaho's Dark Skies gaining lots of attention and being preserved, KIVI TV, Nov. 2, 2017
- World's 100 Greatest Places 2018, TIME, August 24, 2018
- Idaho Dims The Lights For One Of The Best Night Skies Anywhere, NPR Weekend Edition, Nov. 25, 2017
- Idaho Gets A 'Dark Sky Reserve', NPR Morning Edition, Dec. 22, 2017
- A Stargazer's Guide to Protected Dark Skies, Sierra, Feb. 20, 2018
- 36 Hours In Boise, New York Times, Aug. 9, 2018
- Your Next Trip? It's Written in the Stars, New York Times, Sept 3, 2018
- Travel Long Distance With an Electric Vehicle/Chevy Bolt, LatinaGeeks, August 21, 2018
- The U.S. Now Has Its First Dark Sky Reserve, Travel and Leisure, Dec 19, 2017
- US Forest Service Dark Sky Reserve Video
- The U.S. Now Has Its First Dark Sky Reserve, Smithsonian, Dec 21, 2017
- America's first dark sky reserve is right here in Idaho, Idaho Statesman, Dec. 18, 2017

- Why Idaho is Setting Up a Giant Nature Preserve in the Sky, Washington Post Oct. 13, 2017
- Eye on Sun Valley, Michael Marlin Interview, Sept. 12, 2018
- Fighting for Darkness, Al Jazeera Media Facebook, Sept. 21, 2018
- See stunning nighttime vistas from the US's first gold-tier 'Dark Sky' star-gazing reserve, Business Insider, July 22, 2018
- Sleep Under Idaho's Starry, Starry Skies, Visit Idaho Tourism Website
- Chevy Bolt/Dark Sky and Perseids Meteor Shower, Uptown Magazine
- Chevy Bolt/Ketchum Idaho City of Stars, TravelSquire.com
- See the Milky Way in Idaho's Dark Sky Reserve, Outdoors NW, January 2018
- Central Idaho Dark Sky Reserve, Wikipedia, 2017
- How To Enjoy The Central Idaho Dark Sky Reserve With The Family, Visit Sun Valley
- Central Idaho (U.S.), International Dark Sky Association, 2017





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