Celebrating Saguaro National Park's Urban Night Sky Place Certification

By Jennifer Bain
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The night sky electrics in Saguaro National Park's Tucson, Arizona, it has been certified as an Urban Night Sky Place | Ray Cleveland/Flickr, CC BY-NC-ND

As the sun set over the Sonoran Desert, the animals came out to play. The deer-grazing among the saguaro were probably more but could have either lasted – it was tough to say at dusk with only two exposures before nightfall in hand instead of binoculars. The bird that perched on a tree branch for a few seconds before flying away had the distinctive silhouette of an owl. There was no mistaking the ups and howls of coyotes.

Nineteen of us were in Saguaro National Park's Rincon Mountain District Visitor Center on a special evening program with NPS-trail ex-pat Ranger Ingrid Ruthig – making it only the ninth place in the world and the second in the national park system to get this particular honor.

The designation means we've got some pretty big shoes to fill. Dark skies that you don't have to be outside of—in urban areas to get! Starr enthused. "We put a lot of time into getting that designation and we now we're here for the long haul. We have to keep it."

Named for the iconic symbol of the American Southwest, Saguaro National Park protects more than 91,000 acres of land in and around Tucson, Arizona. Encompassing the Sonoran Desert and more than two million saguaros, the park's two districts – the Rincon Mountain District in the east and the Tucson Mountain District in the west – flank Tucson. Each has a large undeveloped area as a buffer zone.



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At dusk in February, Next Generation Ranger Melissa Starr leads Saguaro National Park guests on a walk down Cactus Forest Drive's evening loop | Jennifer Bain

Speaking of Tucson, it has been elected by people close to the park's boundaries. With that population base, Saguaro National Park is the largest urban park in the National Park System. The park is easy to see at night as a glow that grows out from the horizon. Outdoor lighting can change, in the words of Starr/Ruthig International, "disrupt wildlife, impact human health, waste money and energy, contribute to climate change and blur our views of the universe."

Darkness helps people when its sleep, bats when its search for food and saguaros when its open their flowers. Moonlight helps pollinators hunt at night when its easier to evade predators and easier if they need to conserve water.

While the urban light boom wont go away, Saguaro considers itself lucky to be within a region that preserves and celebrates dark night skies.

In 1972, Tucson and Pima County created outdoor lighting ordinances so that night lights wouldnt interfere with astronomical research programs at Kitt Peak National Observatory, Mount Graham International Observatory, Fred Lawrence Whipple Observatory, and the MMT, Lennon MacCartner and Steward Observatory.



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At night, the Rincon Mountain Visitor Center is closed but has safely targeted, low-level, controlled and warm-coloured lighting for the washrooms | Jennifer Bain

Tucson is also the headquarters of Dark Sky International, which preserves and protects the nighttime environment and our heritage of dark skies through environmentally responsible outdoor lighting. Its International Dark Sky Places Program encourages communities, parks and protected areas to preserve night skies through quality lighting practices, responsible lighting policies, environmentally responsible outdoor lighting and public education.

Saguaro is too close to the city to earn a dark sky designation, but the Urban Night Sky Place certification recognizes sites that are near or surrounded by large urban areas, "and whose planning and design actively promote an authentic nighttime experience in the midst of significant artificial light at night."

Park staff — with help from Friends of Saguaro National Park, Sky Island Alliance, Tucson Amateur Astronomy Association and Tucson Audubon Society — have begun reducing Saguaro's urban nighttime light to create a dark space for visitors and animals.

Saguaro's lighting retrofit plan and lighting retrofits follow Dark[Sky]'s five principles for responsible outdoor lighting: "Light whatever is planned it, when you need it, in the amount needed and no more," is the light pollution authority's mantra. Light must be useful, targeted, low-level, controlled and warm-colored.



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On night hikes to Saguaro National Park, rangers will ask you not light flashlights that protect your night vision and restore your light-signature | Jennifer Bain

Just 25 miles from Nogales in the Mexican state of Sonora, Tucson draws people for its gastronomy and astronomy.

On the gastronomy front, I ate what's touted as America's best Mexican food, starting with Sonia Saucedo's Rice de Coliflor and my first Sonoran hot dog at El Güero Canelo. Tucson is a UNESCO City of Gastronomy because the food here tells a story that dates back a 400 years. On the astronomy front, Tucson is home to 12 major observatories and research institutions and has more telescopes per capita enjoying the night sky with a naked eye.



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People gather on the Javelina Rocks in Saguaro National Park to watch the sun set over Tucson | Jennifer Bain

Logically came to Lockett and other Tucson Physician Rocky Richards' recent drive to celebrate Saguaro National Park certification: she said "enjoying the beauty of the night sky is one of the ways Southerners engage with our natural beauty. Our beautiful sunrises followed by our impressive night skies connect us to our past and our heritage."

Back home in Canada, I can watch out too many times to count at dark sky preserves and dark sky festivals due to clouds. But Tucson seems made for successful stargazing thanks to good weather, elevation and protected night environments.

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Ross is among the rangers who've been leading the park's astronomy programs. Ranger Starr, who moved here from Nova Scotia National Park in the east end district's Red Hills Visitor Center. "The natural night sky is definitely the wildlife, and for anyone who lives here and really treasures the astronomical research that goes on here. We have a really good opportunity to interpret that for the public."

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I used that window of time to drive the west district's Red Hills Visitor Long Drive, stopping at pullouts to marvel at the starry night and the way that saguaros look even more human at dusk than by day. In the east district, I did the same thing along the eight-mile Cactus Forest Drive after hiking that short stretch of it with Starr.

Both times I marveled that people have always looked up to the stars, using them to navigate, share culture and history and understand our place in the universe.



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Rhodes after sunset. One quarter moon shines in the sky above a saguaro in Saguaro National Park | Jennifer Bain



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At a fair park in Saguaro National Park's west district, amateur astronomer Doug Smith points his Dobsonian telescope at different targets in the sky | Jennifer Bain

While the star party was buzzing, quietly watching one last Tucson sunset just before the festivities was more my speed.

From the Javelina Rocks Area along Cactus Forest Drive, I climbed the Javelina Rocks. The small cluster of rocks was home to an aggressive colored canary/cave phoebe mistakenly called a pigi that travels in squadrons and is one of the animals that loves the shelter and shade here.

Also, there were no javelina out at that time (evening), only people scrambling across the ancient granite. I watched the sun blaze orange over Tucson before disappearing. Then, to a symphony of Great Horned Owls, I descended the rocks, crossed the parking lot, and under the night light of the first quarter moon, I safely retraced my steps to my car.



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A man stands on the Javelina Rocks at sunset in Saguaro National Park | Jennifer Bain

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