

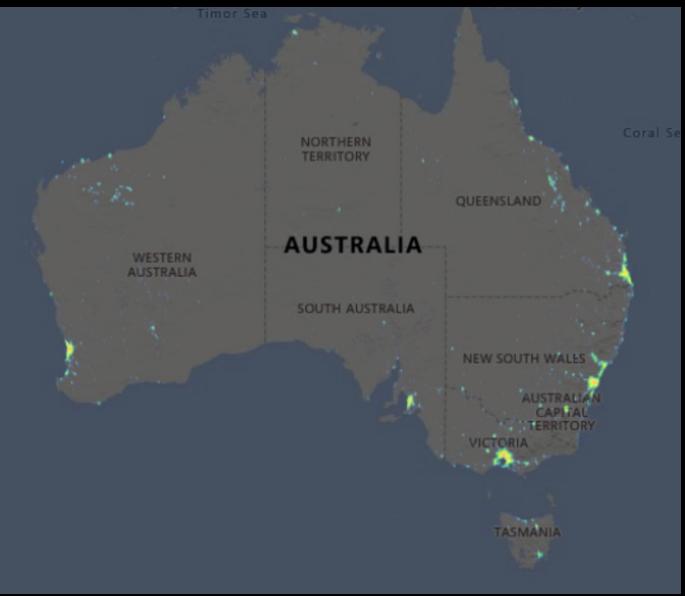
Dark Sky Places in Australia & Benefits of IDSP Certification

Nalayini Davies

DarkSky International – President Australasian Dark Sky Alliance - Director Royal Astronomical Society of New Zealand – Immediate Past President New Zealand Dark Sky Network – Founding Member



Dark Skies Very Abundant in Australia ...

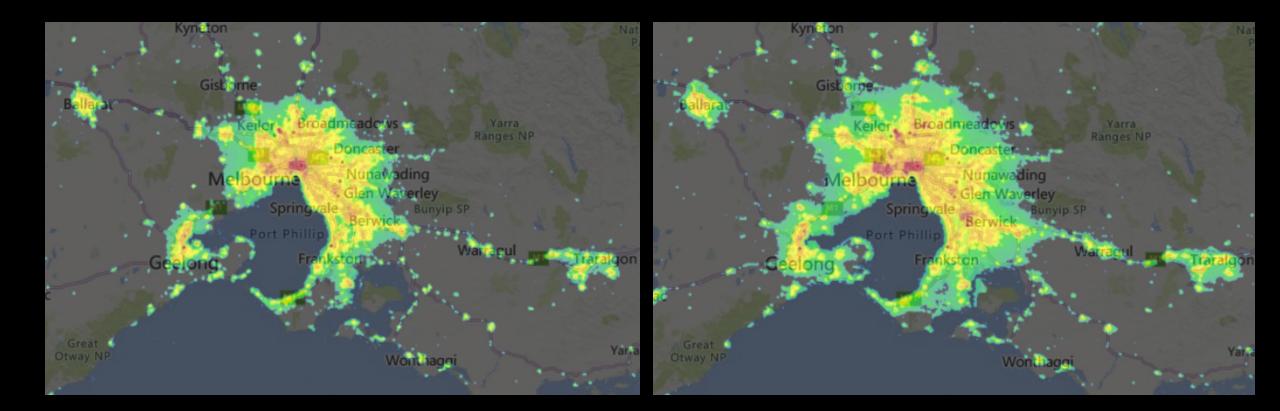


... but ~ 80% of Australians live in or close to Metropolitan Areas



Light Pollution Map, 2023

So, Dark Skies are Under Growing Threat



Light Pollution Map, 2012

Light Pollution Map, 2023

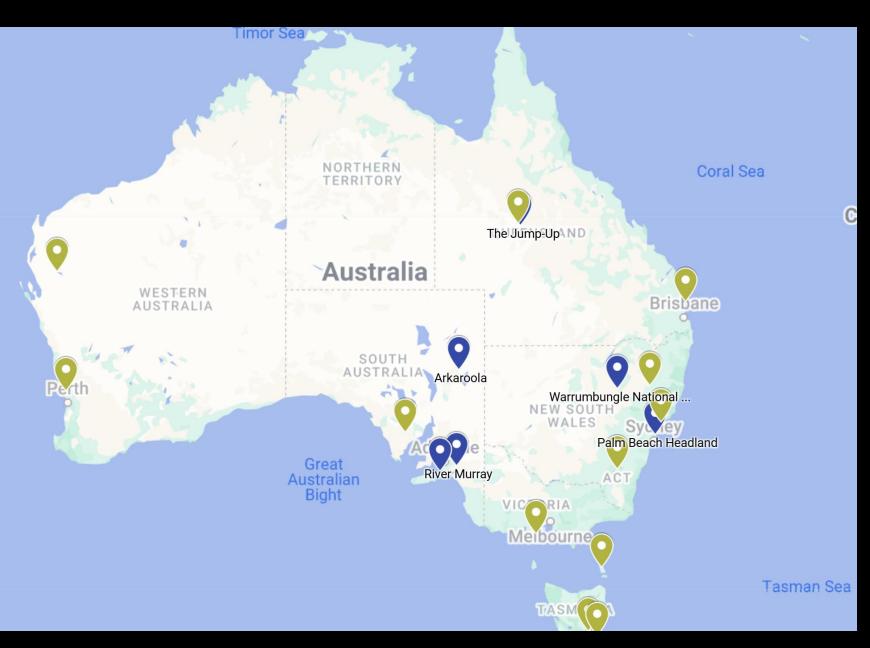


Interest in Protection also Growing Rapidly





Aspiring 12





Australian IDSPs vs NZ IDSPs

Australia - 7,688,287 sq. km Population: 27.7 million

- 1 Warumbungle IDSP, 2016
- 2 River Murray, IDSR, 2019
- 3 The Jump Up IDSS, 2019
- 4 Arkaroola IDSS, 2023
- 5 Carrickalinga IDSC, 2024
- 6 Palm Beach Headland UNSP, 2024

New Zealand - 263,310 sq. km Population: 5.5 million

- 1 Aoraki Mackenzie IDSR, 2012
- 2 Aotea/Great Barrier Island IDSS, 2017
- 3 Rakiura/Stewart Island IDSS, 2019
- 4 Wai-iti IDSP, 2020
- 5 South Wairarapa IDSR, 2023
- 6 Oxford Forest Conservation Area IDSP, 2024
- 7 Kawarau-Gibbston IDSP, 2024
- 8 Kaikoura IDSS, 2024
- 9 Tahuna/Glenorchy IDSS, 2024





Australia's Protected Dark Sky IDSPs

Location	Туре	Date	Size (Km²)
Warrumbungle National Park	IDSP	2016	233
River Murray	IDSR	2019	3,200
The Jump Up	IDSS	2019	14
Arkaroola	IDSS	2023	610
Carrickalinga	IDSC	2024	104
Palm Beach Headland	UNSP	2024	0.62
		Total Area Protected:	4,162
		Total Area of Australia:	7,688,287
		% Land Protected:	0.05%



Scale of Protection – Australia vs. NZ

AUSTRALIA

- Certified 6

4,162 sq. km 0.05% land area

- Aspiring 12

NEW ZEALAND

- Certified 9

14,421 sq. km 5.5% land area







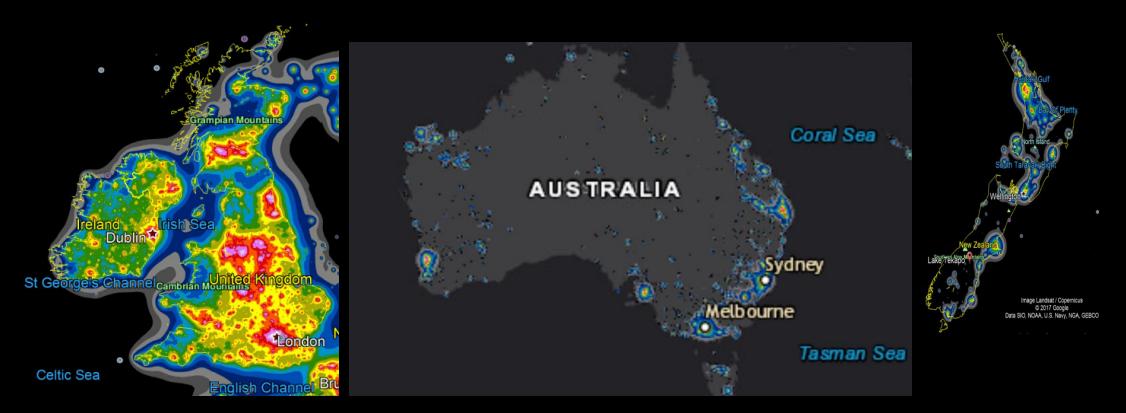
- Aspiring 21

Scale of Light Pollution - UK vs Australia vs NZ

UK 21 Sites

Australia 6 Sites

NZ 9 Sites





Naturally Occurring Opportunity – Increasingly Rare

Conservation of the environment (e.g. biodiversity, climate change) culture and history Easy pollution to manage: Only type of pollution that can be managed/eliminated Non-controversial: Benefits far outweigh efforts and has no adverse knock-on effects PLUS

Equitable economic growth from sustainable and eco-friendly tourism

MOST IMPORTANTLY

Everyone can participate, contribute and benefit: grass root voluntary community movement + individual actions



Benefits of IDSP Certification

- Tangible/real sustainable protection for future generations
- Practical, participatory, supported process for communities
- Showcases the natural night sky and allows it to be enjoyed by residents, visitors and future generations
- Brings attention to the problem of light pollution and the need to preserve the night sky as a natural resource
- Join the international community dark skies are universal
- Ability to network/Collaborate globally network, compare and be consistent
- Motivational for residents to maintain their skies remain dark
- Enhanced Visibility and Promotion

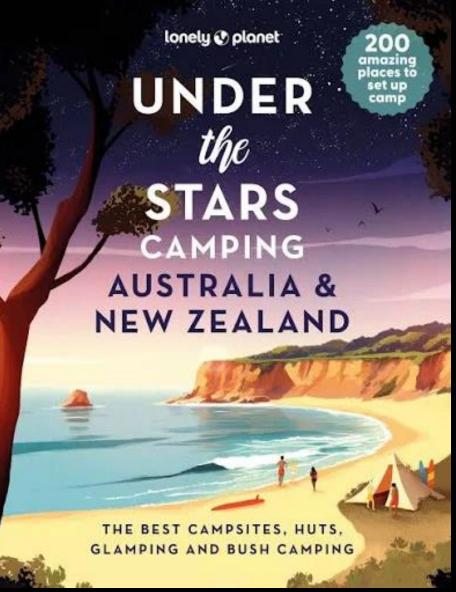


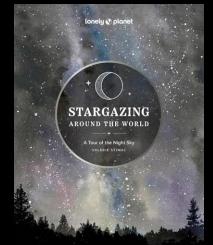
Where some Opportunities are in Australia & NZ

AUSTRALIA - 147

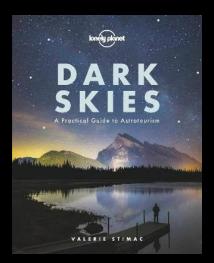
- NSW & ACT 23
- Nothern Ter 18
- Queensland 24
- South Aus 16
- Tasmania 25
- Victoria 24
- Western Aus 17

NZ -	48
- North Is	23





9 February 2024



13 September 2019 **DarkSky**

- South Is 25

12 April 2024

What is Required

- Legal Protection to manage Artificial Light at Night (ALAN)
- Protect/Restore Natural Darkness in a significant percentage of the land area
- ALAN monitoring system
- Advocate, Educate and Foster Community Engagement to protect the night

LET'S PROTECT, ENJOY & SHARE



Thank You



