

TERN News index August 1, 2011 – December 31, 2024

3D-FOREST project [2018-11 forests](#)
55 global superstars of space-borne data validation [2018-08 global](#)
90-years of open-data track change in rangeland ecosystem [2015-09 track](#)
100 years of platypus survey data now available via AEKOS [2015-06 platypus](#)
400k of additional investment funds [2018-01 investment](#)
550 ecosystem surveillance plots and counting [2017-03 ecosystem](#)
2018/19 Australian Climate and Water Summer Institute [2018-09 climate](#)
2024 Threatened Species Index – with pilot frog data [2024-12 threatened](#)

Abe, Hitofumi [2019-09 rainforest](#)
a'Beckett, Susie [2019-12 Snowy](#)
a'Beckett, Tony [2019-12 Snowy](#)
Aberystwyth University, Wales [2019-08 mangrove](#)
Abramowitz, Gab [2012-07 working](#), [2012-12 engaging](#)
Accessing Australia's ecological data [2012-12 accessing](#)
Accessing disparate soil data [2021-09 accessing](#)
ACEAS *see* Australian Centre for Ecological Analysis and Synthesis
The acorn and the oak: growing the high-tech nation from a primary interest in science [2013-01 acorn](#)
acoustic analysis, animal sounds, NSW forests [2022-07 forest](#)
acoustic sensors
 continental-scale network [2020-01 Institute](#)
 dawn chorus recording during total solar eclipse [2012-10 eclipsed](#)
 for biodiversity monitoring [2017-05 sound](#), [2019-05 biosphere](#)
ACRI-ST – GBOV and CSIRO collaboration [2019-08 Copernicus](#)
ACT Government [2014-02 betting](#), [2015-01 green](#)
ACT Parks and Recreation [2014-01 watchful](#)
Actual evapotranspiration (AET) data for the entire Australian continent now available from TERN [2021-08 actual](#), [2021-08 update](#), [2022-05 TERN](#), [2023-12 TERN](#), [2024-12 landscapes](#)
Adams, Mark [2018-10 Marchin](#)
Adams, Vanessa [2019-01 ecoEd](#)
ÆKOS (Australian Ecological Knowledge and Observation System) data portal [2014-10 quiet](#), [2012-10 TERN](#)
 beta version [2013-01 beta](#)
 biodiversity hotspots accessible via [2016-09 biodiversity](#)
 building research and education capacity [2017-05 big data](#)
 collaboration to build Global Vegetation Database [2014-12 creating](#)
 collaboration with Atlas of Living Australia [2016-06 NCRIS](#)
 collaboration with NEON [2013-08 like](#)
 data partnerships [2012-10 partnerships](#)
 Data Users Reference Group [2014-04 fostering](#)
 datasets break new ground for understanding nature [2012-09 AEKOS](#)
 developed with semantic technologies [2011-08 bringing](#)
 eco-informatics and data custodians partnering for success [2013-07 eco-informatics](#)
 final testing before release [2013-07 eco-informatics](#)
 for high quality, well described data [2014-03 ecological](#)
 gateway to Australian ecology data [2016-11 AEKOS](#)

government environmental data extracted by Eco-Informatics [2011-09 government](#)
has answers for age-old question of what's in a name [2012-10 AEKOS](#)
holds AusPlots data [2015-03 AuScribe](#), [2016-03 collection](#)
leads with 'smart' search and display [2011-10 data](#)
long-term desert ecology data available via [2016-03 desert](#)
makes 100 years of platypus survey data available [2015-06 platypus](#)
mapping tool, improved through user feedback [2012-02 mapping](#)
MSPN data available through [2012-12 MSPN](#)
northern Australia rangeland survey data available via [2014-03 survey](#)
online repository for Australia's ecological data [2012-12 accessing](#)
over 500 surveillance plots available via [2017-03 ecosystem](#)
Parks Australia submits environmental data to [2014-04 NCRIS](#), [2014-05 SHaRED](#), [2014-07 Goumas](#)
Queensland's CORVEG data available via [2017-06 map](#)
rangeland ecosystem data available via [2015-09 track](#)
Ravensthorpe Range Flora Survey dataset [2012-09 AEKOS](#)
researcher data submission tool [2011-08 bringing](#)
scientists submit associated research data to [2015-03 Bradshaw](#)
search functions, map interface and visualisation [2013-01 beta](#)
SHaRED to upload data into [2014-05 SHaRED](#)
state agencies give overwhelming support for at workshop on [2011-12 state](#)
taxonomy search capability added to the portal [2012-10 AEKOS](#)
treasure trove of ecological data at your fingertips [2012-10 data](#)
trillion downloads in first quarter of 2017 [2017-05 big data](#)
video shows users how to drive the 'alpha' version [2011-11 video](#)
Aerial imagery used in down-to-earth farming decisions [2012-08 aerial](#)
Age-old knowledge + contemporary science = healthy continent [2013-01 age-old](#)
aggression, links to temperature [2020-10 hot](#)
Agricultural and Forest Meteorology special issue, compendium of research using TERN's
OzFlux infrastructure [2013-12 several](#)
agricultural decision making, Soil and Landscape Grid of Australia use [2013-07 mapping](#),
[2019-03 R package](#)
agricultural ecosystems, University of New England's SMART Farms [2020-06 SMART](#)
agricultural industries
reducing reliance on phosphorus fertiliser [2018-05 Doolette](#)
use of Soil and Landscape Grid of Australia [2014-11 National](#)
agricultural land-use planning, Goyder's Line shifts, TREND data use, SA [2012-08 TREND](#)
agricultural management, Mitchell grassland ecosystems [2019-04 Mitchell](#), [2021-07 Mitchell](#)
agricultural practices, impact on soil biota [2022-08 living](#)
Agricultural Production Systems sIMulator (APSIM) [2023-12 TERN](#)
agricultural soil ecosystems
carbon sequestration, flux tower data [2022-07 flux](#)
more than just dirt [2022-08 living](#)
agricultural soils
carbon storage, TERN/OzFlux network monitoring role [2023-04 neutral](#)
lime deficiencies in [2022-03 Institute](#)
recarbonising [2023-04 neutral](#)
agricultural systems
adapting to a changing climate, using four representative concentration pathways (RCPs)
[2012-08 imagining](#)

carbon, water and energy fluxes, Australia and NZ [2020-03 investigating](#)
carbon and greenhouse-gas budgets, NZ [2019-11 Manaaki](#)
matter balances, NZ [2020-11 Ashley](#)
Agriculture, forestry, tourism and wildlife under TERN microscope in the west [2013-07 agriculture](#)
agro-ecosystems, capacity of models to simulate carbon and nitrogen dynamics [2012-12 ACEAS](#)
agroforestry, contribution to farming systems [2020-08 training](#)
AgroParis Tech [2018-10 drought](#)
air monitoring networks, schools-based [2021-09 Sydney](#)
air-quality data, time-series, collected at Sydney schools [2021-09 Sydney](#)
Airborne Research Australia [2014-06 value](#)
Alice Mulga SuperSite [2013-07 NATT](#), [2015-12 Maes](#), [2017-08 Earth](#), [2020-03 investigating](#)
climate and rainfall tipping points of arid ecosystems [2019-12 sink](#)
CosmOz sensor installation [2020-02 cosmic](#)
decade of ecosystem measurements [2020-09 Alice](#)
ecosystem productivity following flooding rains [2020-09 Alice](#)
photosphere [2014-10 armchair](#)
plant functional traits [2018-09 data](#)
site infrastructure and characteristics [2022-08 tour](#)
virtual tour, outback monitoring site on Anmatyere Nation lands [2022-08 tour](#)
Alice Springs Desert Park [2014-12 practical](#)
All-weather, day and night, satellite radar images are now available for TERN sites, Australia and beyond [2021-07 all-weather](#)
Allan, Matt [2016-10 drones](#)
Allen, Stuart [2015-04 climate](#)
Allergy and Immunology Foundation of Australasia (AIFA) [2015-06 Davies](#)
allergy patients, forecasting the level of pollen exposure to grass pollens [2013-03 greater](#), [2013-11 students](#), [2015-02 Dhillon](#), [2015-06 Davies](#), [2016-12 relief](#), [2019-10 pollen](#), [2019-09 camera](#)
alpine ecosystems
alpine researchers visit TERN-Australian Mountain Research Facility Silver Plains, Tasmania site [2024-11 alpine](#)
Bogong High Plains data gives context for warning tundra [2013-08 Bogong](#)
impact of loss of snow on [2018-10 Marchin](#)
introduced legume found, Dargo Plains [2018-11 weed](#)
long-term datasets [2017-06 decades](#)
long-term ecosystem monitoring sites [2012-08 sustaining](#), [2012-12 MSPN](#), [2013-07 tall](#), [2013-08 Bogong](#), [2014-07 Derrick](#)
Alpine National Park, Vic. [2014-07 Derrick](#)
Alpine Peatland flux tower site [2018-10 Marchin](#)
alpine stoneflies (*Thaumatoperia alpine*), conservation [2021-04 Research](#)
American Geophysical Union, Fall meeting, 2013, TERN delegation at [2013-08 like](#), [2013-12 scaling](#)
American Universities International Program [2013-04 learners](#), [2014-09 nation-wide](#)
Analysis and Experimentation on Ecosystems (AnaEE), Europe [2013-08 collaboration](#), [2016-03 global](#), [2016-11 NASA](#)
Analysis highlights sharp decline of koalas in Queensland and NSW [2012-09 analysis](#)
Anandappa, Tivanka [2021-10 French](#)
Anangu Pitjantjatjara Yankunytjatjara lands, as plant biodiversity hotspot [2016-09](#)

[biodiversity](#)

ancient soils, world's richest ecosystems grow on [2021-09 Centre](#)

Andersen, Alan [2012-09 infrastructure](#), [2013-02 TERN](#), [2018-12 long-term](#), [2019-04 shaping](#)

Andersen, Martin [2019-07 treetop](#)

Anderson, Ian [2019-07 Hawkesbury](#)

Anderson, Marion [2021-09 TERN](#)

ANDS *see* Australian National Data Service (ANDS)

Angry summers and ecosystem health [2017-01 angry](#)

animal tracking and Marxan conservation planning software [2014-08 facilitating](#), [2015-03 CoESRA](#)

Annual Environmental Briefing: Australia's Environment in 2018 [2018-03 briefing](#)

Annual Reef Report Card [2013-09 integrating](#)

ant biodiversity, cattle grazing effects, tropical savannas [2015-09 living](#)

ant communities

- effects of regional climate change, National Australian Tropical Transect [2012-09 infrastructure](#)
- Kakadu National Park [2013-05 collaborative](#)
- patterns of biodiversity change with climate, NT [2013-07 NATT](#)

Antarctica, environmental monitoring, unmanned aircraft systems use [2013-09 AusCover](#)

apiarists, honey harvest prediction using remote sensing data [2020-07 honey](#)

An app to map cyanobacteria crusts for soil management [2015-06 cyanobacteria](#)

App turns soil data into information on the go [2012-10 app](#)

Appreciating the value of open-access data [2013-06 appreciating](#)

APSIM (Agricultural Production Systems sIMulator) [2023-12 TERN](#)

aquatic plants, adaptation to climate change [2012-02 decisions](#)

Arafura region, new livelihoods from traditional lands in [2012-05 new](#)

ARC Centre of Excellence for Australian Biodiversity and Heritage (CABAH) [2021-03 ARC](#)

- research themes [2021-03 ARC](#)
- tracking past rainfall, Kakadu region [2021-03 ARC](#)

ARC Centre of Excellence for Climate Extremes [2019-01 valuable](#), [2019-04 sweat](#)

ARC Centre of Excellence for Climate System Science [2017-10 facilitating](#)

- stepping stones for improving climate models [2018-07 stepping](#)

ARC Centre of Excellence for Environmental Decisions [2017-10 facilitating](#), [2019-02 Raiter](#)

ARC Centre of Excellence for Indigenous and Environmental Histories and Futures (CIEHF), TERN partnership with [2024-12 Indigenous](#)

ARC Centre of Excellence in Plant Energy Biology [2016-06 smile](#), [2017-09 sample](#), [2017-10 facilitating](#), [2018-09 data](#)

- reliance on NCRIS infrastructure [2017-10 facilitating](#)

ARC Discovery projects

- funded [2017-10 facilitating](#)
- reliance on TERN infrastructure [2017-10 facilitating](#)

ARC Industrial Transformation Training Centre for Forest Value (University of Tasmania) [2020-08 training](#)

Archer, Sam [2017-04 farms](#)

Arcoverde, Gabriela [2015-09 living](#)

Arcus, Vickery [2021-03 ecosystem](#)

arid ecosystem observatory, to enable advanced groundwater studies [2017-08 Earth](#)

arid ecosystems

- climate and rainfall tipping points [2019-12 sink](#)
- erratic greening of [2014-01 erratic](#), [2015-04 capabilities](#)

regeneration of natural vegetation, Koonamore Vegetation Reserve, SA [2014-02 experience](#), [2015-09 track](#)

Arizona State University [2012-06 more](#)

Arkaroola Wilderness Sanctuary, SA
repeat environmental surveys [2018-10 surveys](#)
spidery acacia survey [2013-09 surveys](#)

An armchair tour of Australia's ecosystems [2014-10 armchair](#)

Armston, John [2016-03 satellite](#), [2018-08 laser](#)

Armstrong, Dave [2013-07 AusPlots](#)

Armstrong, Keith, as Australian Network for Art & Technology (ANAT) Synapse artist in residence [2024-02 art](#)

Arndt, Stefan [2015-01 Pisek](#), [2015-06 impacts](#), [2020-08 Wombat](#)

Art + Science synergy [2024-02 art](#)

arts-science interface
Biosphere Soundscapes [2019-05 biosphere](#)
Forest Art Intelligence at Samford Peri-urban SuperSite [2024-02 art](#)
Ghost Trees (mixed media/3D installation) [2020-02 ghost](#), [2023-01 experience](#)

As pressures on land use increase, freshwater systems struggle [2013-09 pressures](#)

Ashley Dene, NZ, OzFlux site, research and activities [2020-11 Ashley](#)

Asia-Pacific Biodiversity Observation Network (APBON)
meeting, Vietnam, 2017 [2017-10 observatory](#)
regionally-consistent common monitoring attributes and standard protocols [2018-11 Kyoto](#)

Asia-Pacific research and academic cooperation [2019-03 Asia](#)

Assessing rangeland ecosystem trends across Australia [2012-06 assessing](#)

Atkin, Owen [2018-09 data](#)

Atlas of Living Australia (ALA)
ACEF collaboration [2012-12 improving](#)
at ESA's first symposium [2016-03 open data](#)
Biological Data Recording System as platform for National Marine Turtle Database [2012-12 improving](#), [2013-01 new](#)
Biome of Australian Soil Environments (BASE) collaborator [2014-04 NCRIS](#), [2014-08 creating](#)
environmental data assets available via EcoAssets [2022-08 streamlined](#)
data infrastructure provision [2013-06 data](#)
helps develop Soils to Satellites (S2S) [2012-08 NCRIS](#), [2013-06 soils](#)
improving understanding of extreme coastal events [2014-01 improving](#)
partnership developing complementary data services [2016-06 NCRIS](#)
raptor project [2017-11 raptors](#)
role in EcoAssets project [2021-11 delivering](#)
role in EcoEd [2017-06 ecoEd](#), [2019-01 ecoEd](#)
sensitive data guidelines [2017-07 responsible](#)
TERN links to [2013-02 refocus](#)

atmosphere, Integrated Earth 2023 conference, Canberra [2023-11 Integrated](#)

Attorney-General's Department, Critical Infrastructure Resilience program [2014-06 safeguarding](#)

AuScope
awarded Australian Academy of Sciences conference grant with TERN for Integrated Earth 2023 [2022-12 Integrated](#)
collaboration with UWA and Sensoil in progression of TERN-supported OzCZO [2023-04 real](#)

Critical Zone Observatory [2019-07 treetop](#)

Heat Needle Project: an AuScope-TERN-OZCZO joint venture [2024-11 heat](#)
seismic sensors, co-location with TERN's flux monitoring towers and SuperSites [2017-08 Earth](#)

TERN links to [2013-02 refocus](#)

AusCover [2012-04 focus](#)

aerial imagery use for down-to-earth farming decisions [2012-08 aerial](#), [2014-11 satellite](#)

aids development of NRM Spatial Hub [2016-10 online](#)

bare ground and dust storm monitoring [2014-01 windy](#)

close partnership with Bureau of Meteorology [2013-05 improving](#)

collaboration on European Geo-Wiki Project [2013-04 local](#)

develops Persistent Green-Vegetation Fraction 2000–2010 [2012-10 persistence](#)

develops software to process and display hyperspectral data recorded by satellite and
airborne sensors [2011-11 hyperspectral](#)

expands into the cold south [2013-09 AusCover](#)

Fire Severity MODIS North Australia coverage product [2012-11 mapping](#), [2017-02 Edwards](#)

Geo-Wiki tool [2012-10 AusCover](#), [2013-04 local](#), [2016-06 budding](#)

grass cover and greenness information [2016-12 relief](#)

land-based multispectral measurements of grassland curing [2015-01 green](#)

Landsat Seasonal Fractional Cover product [2017-01 fire](#)

makes 10 years of hyperspectral data files from the Hyperion satellite-borne sensor
available [2012-12 treasure](#)

MODIS Burnt Area product [2017-01 fire](#), [2017-02 Edwards](#)

MODIS fractional cover updates [2014-07 Rickards](#)

National Biomass Library accessible via [2017-04 farms](#)

part of global network of volunteers making better maps [2012-10 AusCover](#)

products and tools [2012-12 building](#), [2014-06 road](#)

provides long-term satellite data for natural resources and land management [2015-09 satellite](#)

remote-sensing tools to characterise bushfires [2012-11 characterising](#), [2012-11 helping](#),
[2013-07 NATT](#)

remote-sensing tools workshop, Perth [2011-12 data](#)

role [2011-10 surveys](#), [2012-12 building](#)

role in Carbon Farming Initiative (CI) savanna-burning project [2012-11 Australian](#)

Sentinel web-based fire mapping product [2014-01 watchful](#)

supports ground, air and satellite data for more meaningful ecosystem information [2016-10 drones](#)

Tasmanian node [2013-09 AusCover](#)

team members take field measurements at Calperum Mallee SuperSite, SA [2012-02 four](#)
understanding cyclones and fires in northern Australia using satellites [2014-03 cyclones](#)

AuScribe (TERN's Field Survey App) [2015-03 AuScribe](#), [2015-06 cyanobacteria](#), [2015-06 Pilbara](#), [2016-03 collection](#)

AusLTER [2017-10 observatory](#), [2018-12 long-term](#)

AusPlots [2011-09 LAMPS](#)

1-ha ecosystem monitoring plots, tall eucalypt sites [2016-11 Buettel](#)

adds vegetation specimens to Australian National Herbarium [2015-04 Lepschi](#)

Alice Mulga SuperSite [2017-08 Earth](#)

benefits and use [2014-06 road](#)

bioregions surveyed [2013-07 AusPlots](#)

collaboration with WA Department of Parks and Wildlife [2014-07 van Leeuwen](#)
ecosystem monitoring sites, WA's Pilbara [2015-06 Pilbara](#)
field data collection [2014-07 Rickards](#)
Field Survey App, called AuScribe [2015-03 AuScribe](#), [2015-06 cyanobacteria](#), [2015-06 Pilbara](#), [2016-03 collection](#)
forest plots around Warra Tall Eucalypt SuperSite [2013-06 appreciating](#)
housed at University of Adelaide [2013-11 strategic](#)
identifies new legume weed species [2018-11 weed](#)
locations [2017-03 ecosystem](#)
moves east to build national network [2013-07 AusPlots](#)
new sites along the Biodiversity Adaptation Transect Sydney (BATS) [2015-12 catchment](#)
survey teams head north to sample key ecosystems [2014-03 survey](#)
use with biodiversity hotspot studies [2016-09 biodiversity](#)
used by FAO [2016-06 FAO](#)
website [2015-02 AusPlots](#)

AusPlots Forests [2012-12 MSPN](#)
design of forest plots under way [2011-10 surveys](#)
long-term monitoring plots, south-west WA's eucalypt forests [2013-07 agriculture](#)
measuring climate change in eucalypt forests [2013-01 seeing](#)
Survey Protocols [2015-02 AusPlots](#), [2019-12 essential](#)

AusPlots Rangelands [2012-12 MSPN](#)
ground cover monitoring for Australia [2012-08 working](#)
mobile apps [2012-10 mobile](#)
plot surveys begin [2011-10 surveys](#)
survey methodology [2012-06 assessing](#), [2013-04 students](#), [2014-09 collaboration](#), [2014-12 practical](#), [2015-06 condition](#), [2015-06 Pilbara](#)
survey methodology training [2011-09 training](#), [2012-10 rangelands](#)
survey monitoring training
Calperum Mallee SuperSite, SA [2012-02 full](#)
NT [2014-12 practical](#)

Survey Program dataset [2013-06 ecosystem](#)
Survey Protocol [2019-01 mine](#), [2019-02 train](#)
applications [2012-12 MSPN](#), [2020-06 trusted](#)
standardised monitoring protocols built on [2021-03 standards](#)
globally-applicable and adaptable monitoring method [2020-06 trusted](#)
peer-review publication of [2020-06 trusted](#)

Survey Protocol Manual [2012-06 assessing](#), [2012-08 rangelands](#), [2013-02 two](#), [2014-03 survey](#), [2020-04 grass](#), [2020-06 trusted](#), [2020-10 botanists](#)
survey team, Mount Isa Inlier and Gulf Plains bioregions [2013-07 AusPlots](#)

AusPlotsR package
2020 version includes new and improved features [2020-11 researcher](#)
combined with AusTraits database to analyse plant community flowering periods across
biomes [2022-07 research](#)
data training video [2021-12 update](#)
downloadable from GitHub [2019-02 R package](#)
for Soil and Landscape Grid of Australia [2019-03 R package](#)
provides direct access to TERN data [2020-11 researcher](#)
published by Comprehensive R Archive Network (CRAN) [2020-11 researcher](#)
works in tandem with photosynthetic pathway dataset [2021-04 photosynthetic](#)

AusPollen network [2016-12 relief](#), [2019-10 pollen](#)

Aussie plants used to study eco-evolutionary dynamics [2020-08 Aussie](#)
AusTraits database, combined with AusPlotsR package to analyse plant community
flowering periods across biomes [2022-07 research](#)
Australia State of the Environment (SoE) report *see State of the Environment report*
Australian Academy of Science [2014-04 sky](#), [2014-05 future](#), [2014-07 foundations](#)
decadal plan for taxonomy and biosystematics in Australia and New Zealand (2018-2027)
[2021-06 cost-benefit](#)
Future Earth Australia Project [2015-12 vision](#)
Integrated Earth Conference: linking our planet's processes from the core to the
atmosphere [2022-12 Integrated](#), [2023-11 Integrated](#)
taking the pressure of Australia's stressed ecosystems, workshop [2012-02 pressure](#)
Australian Access Federation (AAF) [2015-03 OZFluxQC](#)
Australian Acoustic Laboratory (A2O) [2020-01 Institute](#)
Australian Acoustic Observatory [2019-05 biosphere](#)
Australian Aerobiology Working Group [2016-12 relief](#)
Australian alpine environment, functioning without reliable snowcover [2021-04 Research](#)
Australian alpine research community, meeting, Hobart, September 2024 [2024-11 alpine](#)
Australian Alps
70-year dataset now available [2017-06 decades](#)
high altitude monitoring, at newly launched Australian Mountain Research Facility sites
[2023-01 partners](#)
long-term monitoring [2012-08 sustaining](#)
Australian Biodiversity Information Standard (ABIS) [2022-03 TERN](#)
Australian BioSciences Cloud [2017-08 EcoCloud](#)
Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) [2014-03 ecological](#), [2014-04 NCRIS](#), [2014-07 Rickards](#)
as TERN partner [2015-09 investment](#)
develops MCAS-S easy data visualisation tool [2014-04 fostering](#), [2015-03 MCAS-S](#)
ground cover mapping to improve land-management outcomes [2012-08 working](#)
role in ecoEd [2019-01 ecoEd](#)
Australian Bureau of Statistics [2020-02 liveability](#)
Australian carbon credit units [2012-11 savanna](#)
Australian Centre for Ecological Analysis and Synthesis (ACEAS) [2012-04 focus](#), [2013-08 collaboration](#), [2013-12 collaborative](#)
acoustic sensor workshop [2012-10 eclipsed](#)
aerobiology working group [2013-11 students](#), [2014-05 ensuring](#)
analysis highlights sharp decline in koalas in NSW and Qld [2012-09 analysis](#)
at ESA 2012 [2012-12 engaging](#)
carbon economy and biodiversity, workshop [2012-07 carbon](#)
catchment to coast planning in northern Australia [2014-03 integrated](#)
collaboration on ecosystem science with John Parker (Arizona State University) [2012-06 more](#)
European land use and biodiversity - debate [2012-02 landscape](#), [2012-04 romantic](#)
fire patterns determined by tropical monsoons [2012-11 Australian](#)
forest mortality, temperatures and extreme drought [2013-05 extreme](#)
forum on should science influence public policy? [2013-01 ideas](#)
funding applications [2012-10 applications](#)
funds studies into despotic bird species, integrated catchment planning and genetics role in
ecology [2011-09 despotic](#)
funds studies into vegetation mapping, quality control in remote sensing, and the dynamics

of koala society [2011-10 ACEAS](#)
Grand Workshop 2013, Brisbane [2013-09 pressures](#)
Indigenous bio-cultural knowledge working group wins Banksia Award [2014-12 ACEAS](#)
involvement in science education [2013-11 students](#)
mammal extinctions, northern Australia [2012-09 wave](#)
new approaches to assessing Australia's natural heritage, workshop [2012-06 new](#)
new livelihoods from traditional lands in Arafura region, workshop [2012-05 new](#)
plant species' occurrences for wetlands and riparian zones [2013-07 tall](#)
pollen, ecology and publish health [2013-03 greater](#)
project funding applications [2011-10 funding](#)
pyrogeography synthesis group [2014-01 managing](#)
research hub workshop on collaboration [2014-04 fostering](#)
social perspective [2014-02 wake-up](#)
SPEDDEXES development [2014-08 SPEDDEXES](#)
supports ecosystem services and livelihood opportunities project [2012-12 Indigenous](#)
supports Indigenous biocultural knowledge project [2013-01 age-old](#)
synthesis capability for Australia's ecosystem research and management [2012-12 ACEAS](#)
synthesis model of collaboration [2013-02 access](#)
'Talks on the Wildside' workshop at ESA, Hobart [2011-10 cultural](#), [2011-12 wild](#)
towards a nationally consistent risk assessment process for Australia's ecosystems [2013-02](#)
[TERN](#), [2013-03 greater](#)
vegetated landscapes, handbook for tracking transformation in [2012-08 tracking](#)
working group on valuing ecosystems through interactive games [2013-12 fun](#)
working groups, collaboration, cooperation and activities [2012-12 ACEAS](#)
workshop on conservation of native species for natural resource managers [2012-02](#)
[decisions](#)
Australian Centre for International Agricultural Research (ACIAR) [2018-08 Top End](#)
Australian Centre for Visual Technologies [2011-10 surveys](#), [2012-10 ecology](#), [2013-11](#)
[smile](#), [2014-10 measuring](#)
Australian Climate and Water Summer Institute, 2018/19 fellowship grant applications [2018-](#)
[09 climate](#)
Australian Coastal Ecosystems Facility (ACEF) [2012-04 focus](#), [2012-10 TERN](#)
accessing data holdings [2012-10 coastal](#)
activities [2012-05 taking](#)
beach observation (video) datasets [2012-10 coastal](#)
Coastal Research Portal [2012-03 coastal](#), [2012-12 improving](#), [2013-06 keep](#)
collaboration [2012-12 improving](#)
impact of sea level rise on Kakadu wetlands [2014-03 helping](#), [2014-04 fostering](#)
improving national capacity to manage coasts [2012-12 improving](#)
improving understanding of extreme coastal events [2014-01 improving](#)
National Marine Turtle Database (NMTD) [2012-12 improving](#), [2013-01 new](#)
online flood visualisation tool [2014-05 collaborating](#), [2014-07 Mackenzie](#), [2014-10 photos](#)
provides access to 100 coastal datasets [2012-10 coastal](#)
provides access to coastal shoreline video data and metadata via TERN Data Discovery
Portal [2013-06 keep](#)
water quality monitoring in urbanised catchments [2012-08 water](#)
Australian Code for the Responsible Conduct of Research [2013-06 data](#)
Australian Collaborative Land Evaluation Program (ACLEP) [2012-10 app](#)
Australian Collaborative Rangelands Information Centre (ACRIS) [2014-02 experience](#)
collaboratively develops SoilMapp for iPad [2012-12 ground](#), [2013-04 soil](#)

Australian Community Climate Earth Systems Simulator (ACCESS) [2017-10 facilitating](#)
Australian Department of Agriculture, Water and Environment (DAWS) *see* Department of
Agriculture, Water and Environment (DAWE)
Australian Ecological Data and Observation System *see* ÆKOS
Australian ecological treasure – new national facility opens [2022-12 treasure](#)
Australian Ecology Research Award (AERA) lecturer, Chris Johnson on causes of mammal
declines and extinctions in Australia [2012-09 AERA](#)
Australian Ecosystem Science Long-Term Plan *see* *Foundations for the future: a long-term
plan for Australian ecosystem science*
Australian ecosystems
 maximising the benefits (and minimising the risks) for the nation [2016-09 ecosystems](#)
 photospheres [2014-10 armchair](#)
 resilience in [webinar] [2021-12 looking](#)
 taking the pressure off stressed ecosystems [2012-02 pressure](#)
Australian Ecosystems Science Cloud (ecocloud) [2017-08 EcoCloud](#), [2018-10 ecocloud](#)
Australian Environmental Futures (AEF)
 Implementation Plan [2020-05 scoping](#)
 name proposed for the Australian environmental predictive research infrastructure
 investment [2020-05 scoping](#)
Australian fire patterns determined by tropical monsoons [2012-11 Australian](#)
Australian Flammability Monitoring System [2020-02 Centre](#)
Australian forests, vulnerability to drought induced failure [2017-11 Peters](#)
Australian freshwater fish species, strategic national assessment [2020-05 Canberra](#)
Australian Geo-Wiki System [2013-04 local](#)
Australian Government's National Map [2019-08 mangrove](#)
Australian Governments Open Access and Licensing Framework (AusGOAL) [2013-06 data](#),
[2013-06 ecosystem](#)
Australian Grape and Wine Industry Authority [2014-11 early](#)
Australian Institute of Alpine Studies, meeting, Hobart September 2024 24 1101 alpine
Australian Institute of Marine Science [2017-05 data](#)
Australian Landscape Trust [2014-01 TERN](#), [2017-01 books](#)
 educational activities, Calperum Mallee SuperSite [2013-04 learners](#)
 manages Calperum Station, SA [2012-08 rangelands](#)
 sets up National Australia Bank Calperum volunteer program [2015-09 NAB](#)
Australian long-term research forum [2018-12 long-term](#)
Australian magpie, egg colour variation, across Australia [2019-05 birds eggs](#)
Australian Mangrove and Saltmarsh Network (AMSN), TERN coast team informs future of
OzSET network [2024-12 mangrove](#)
Australian mangrove management [2024-12 mangrove](#)
Australian Microbiome project [2022-08 living](#)
Australian mountain grassland ecosystem, long-term productivity under climate change [2018-
10 Marchin](#)
Australian Mountain Research Facility (AMRF)
 AIAS visits, Silver Plains site, Tasmania [2024-11 alpine](#)
 TERN partners with [2023-01 partners](#), [2023-01 update](#)
Australian Museum [2013-05 collaborative](#)
Australian National Data Service (ANDS)
 ACEF collaboration [2012-12 improving](#)
 Biome of Australia Soil Environments (BASE) collaborator [2014-04 NCRIS](#), [2014-08
creating](#)

Cite My Data Service [2012-10 enabling](#)
CoESRA virtual desktop environment joint project [2015-03 CoESRA](#)
developing collaborative data platforms [2013-06 data](#)
developing data-management practices for the future [2013-04 developing](#)
Eco-informatics extracts data from ÆKOS in ANDS metadata format [2011-09 government](#)
eMAST collaboration [2012-12 predicting](#)
facilitating reproducibility in ecosystem science analysis [2014-08 facilitating](#)
flood visualisation tool [2013-09 visualising](#), [2014-10 photos](#)
funds SEQuITOR project [2014-05 collaborating](#)
guide to publishing and sharing sensitive data [2017-07 responsible](#)
Metadata for Australia's ecological plot data, accessible via TERN Data Discovery Portal
[2012-12 accessing](#)
provides access to extreme coastal events data [2014-01 improving](#)
Soils to Satellites collaborator [2014-05 sample](#)
Australian National Herbarium [2015-04 Lepschi](#)
Australian National University
ANU Institute for Space [2021-11 ANU](#)
Australia's Environment: 2022 report [2023-03 environment](#)
Australia's Environment: 2023 report [2024-03 environment](#)
building on existing infrastructure [2015-12 vision](#)
Centre for Aboriginal Economic Policy Research [2013-01 age-old](#)
Centre for Water and Landscape Dynamics (WALD) [2015-04 climate](#), [2017-03 pulse](#),
[2018-03 briefing](#), [2018-12 landscape](#), [2019-05 environment](#), [2020-02 Centre](#), [2020-03](#)
[environment](#), [2020-03 update](#), [2020-08 Environment](#), [2021-03 environment](#), [2022-03](#)
[environment](#)
Crawford School of Public Policy [2013-12 fun](#)
Division of Ecology and Evolution [2018-08 song-bird](#), [2020-01 heatwaves](#)
e-MAST research applications [2012-03 break](#)
Fenner School of Environment and Society [2013-11 plot](#), [2014-09 Gibbons](#), [2017-04 farms](#)
ground sensing grassland curing trials [2015-01 green](#)
Healthy Farms, Healthy Profits, Healthy Farmers project [2017-04 farms](#)
Mulligan's Flat–Goorooyarroo Woodland Experiment, ACT [2014-02 betting](#)
post-graduate research [2013-11 students](#), [2016-12 Miech](#), [2018-08 song-bird](#)
researchers [2012-07 standardising](#), [2012-07 working](#), [2013-07 tall](#), [2014-05 gourmet](#), [2016-](#)
[06 smile](#), [2016-10 drones](#), [2017-01 angry](#), [2018-09 data](#), [2020-01 heatwaves](#), [2020-02](#)
[cosmic](#), [2022-03 novel](#)
seeks 2019 PhD candidates: population decline in an Australian song-bird [2018-08 song-](#)
[bird](#)
Soil Moisture Integration and Prediction System (SMIPS) collaborator [2021-10 getting](#)
Australian Natural Heritage Assessment Tool (ANHAT) [2012-02 decisions](#), [2012-06 new](#)
Australian Network Data Service (ANDS) [2015-03 OZFluxQC](#)
Australian Ocean Data Network (AODN) [2012-10 coastal](#), [2012-12 improving](#), [2014-01](#)
[improving](#), [2014-04 NCRIS](#)
Australian Ocean Sciences Cloud [2017-08 EcoCloud](#)
Australian Palm Cockatoo (*Probosciger aterrimus macgillivray*) [2017-07 responsible](#)
Australian Pest Fauna Monitoring Protocols [2022-07 pest](#)
Australian Phenocam Network [2016-06 smile](#), [2017-03 raspberry](#), [2017-10 facilitating](#), [2019-](#)
[09 camera](#)
Australian Phenology Product [2014-11 satellite](#), [2015-09 satellite](#), [2019-09 camera](#)
applications [2015-03 phenology](#)

Australian Plant Names Index and the Australian Plant Census [2012-10 AEKOS](#)
Australian Plant Phenomics Facility (APPF) [2017-03 raspberry](#), [2017-09 sample](#), [2017-10 facilitating](#), [2020-05 drone](#)
installation of time-lapse cameras at TERN SuperSites [2016-06 smile](#)
time-series data from phenocams [2019-09 camera](#)

Australian Research Council
Large Infrastructure, Equipment and Facilities scheme (ARC LIEF), funds CZO [2021-01 monitoring](#)

Australian Research Data Commons (ARDC) [2013-06 data](#), [2019-01 ecoEd](#)
Australian Scalable Drone Cloud (ASDC) [2020-05 drone](#)
EcoAssets project partners under NCRIS [2021-11 delivering](#)
funding of Public Sector Bridges projects [2020-11 update](#)
National Machine Based Observation Infrastructure Workshop, Brisbane [2024-07 wildlife](#)

Australian Scalable Drone Cloud (ASDC) [2020-05 drone](#)
cloud-native drone capabilities [2020-05 drone](#)

Australian Science Clouds [2017-08 EcoCloud](#)

Australian sea-change phenomenon [webinar] [2021-12 looking](#)
Australian Soil and Land Survey Field Handbook [2012-10 AEKOS](#)

Australian Soil Classification Map, updated [2022-03 soil](#)
Australian Soil Resource Information System (ASRIS) [2012-10 app](#)

Australian species occurrences, aggregated data, available via EcoAssets, [2022-08 streamlined](#)

Australian SuperSite Network (ASN) [2011-09 LAMPS](#), [2012-10 TERN](#), [2012-12 MSPN](#), [2013-08 like](#), [2016-10 Haverd](#), [2016-11 tea](#), [2017-03 raspberry](#), [2017-08 Earth](#), [2023-12 TERN](#)
acoustic sensor technology [2012-10 eclipsed](#)
bushfire protection for cables, wires and sensors [2020-08 update](#)
cross-cultural monitoring protocol development with NEON [2012-10 bridging](#)
Data Base [2013-04 learners](#)
Data Portal [2012-10 managing](#)
datasets [2013-06 ecosystem](#)
ecosystem research and activities at five SuperSites [2011-12 SuperSite](#)
enables training opportunities for next generation of ecosystem scientists [2014-09 nation-wide](#)
expansion, Litchfield Savanna SuperSite, Tumbarumba Wet Eucalypt SuperSite and the Victorian Dry Eucalypt Forests SuperSite added to [2012-06 ASN](#)
managing data volume and diversity [2012-10 managing](#)
northern Australia [2014-03 hives](#)
portal provides snapshot of research [2011-12 portal](#)
submits data to ÆKOS [2014-05 SHaRED](#)
team battle unseasonal rain to install Robson Creek Rainforest SuperSite flux tower [2013-05 rain](#)
TERN's 12 SuperSites added to CEOS top 55 global sites [2018-08 global](#)
work with NEON [2013-08 like](#)
see also specific SuperSites, e.g. Alice Mulga SuperSite

Australian Transect Network [2012-12 MSPN](#)
co-establishes South-Western Australian Transitional Transect (SWATT) [2013-07 agriculture](#)
datasets used to improve CABLE [2016-10 Haverd](#)
headquartered at University of Adelaide [2013-11 strategic](#)

land management use, SA [2012-12 MSPN](#)
new datasets [2014-03 northern](#)
role in understanding species responses to environmental stress [2013-02 TERN](#)
sample collection research use [2014-05 sample](#)
see also Biodiversity and Adaptation Transect Sydney (BATS); North Australian Tropical
Transect (NATT); South West Australian Transitional Transect (SWATT); Transect for
Environmental Monitoring and Decision Making (TREND)
Australian Urban Research Infrastructure Network (AURIN) [2020-02 liveability](#)
Australian viticulture industry, early and accurate prediction of grape yields [2014-11 early](#)
Australian Wet Tropics, microclimate data collection, five FNQ tropical rainforest sites [2023-
06 TERN](#)
Australian Wildlife Conservancy [2012-11 helping](#), [2014-03 survey](#)
Piccaninny Plains property [2018-09 Cape York](#)
Australian Wool Innovation (AWI) [2016-10 online](#)
Australians collaborate to provide an index of threatened species [2021-09 Australians](#)
Australia's ecosystem sample library [2017-09 sample](#)
Australia's Environment (ANU), purpose [2023-06 how](#)
Australia's Environment in 2016 (Centre for Water and Landscape Dynamics, ANU) [2017-03
pulse](#)
Australia's Environment in 2018 (Centre for Water and Landscape Dynamics, ANU) [2019-05
environment](#), [2020-02 Centre](#)
Australia's Environment in 2019 (Centre for Water and Landscape Dynamics, ANU) [2020-03
environment](#), [2020-03 update](#)
Australia's Environment in 2020 (Centre for Water and Landscape Dynamics, ANU) [2021-03
environment](#)
Australia's Environment in 2021 (Centre for Water and Landscape Dynamics, ANU) [2022-03
environment](#)
Australia's Environment in 2022 (ANU) [2023-03 environment](#), [2023-03 update](#)
comparison with environmental condition reports globally [2023-06 how](#)
Australia's Environment in 2023 (ANU) [2024-03 environment](#)
Australia's Environment 2020 mid-year update (Centre for Water and Landscape Dynamics,
ANU) [2020-08 Environment](#)
Australia's Environment Explorer (online platform/spatial web app) [2017-03 pulse](#), [2020-02
Centre](#)
Australia's first state-wide ecosystem map [2017-06 map](#)
Australia's higher education industry needs TERN [2014-04 education](#)
Australia's Land Observatory
addressing the global challenge of forecasting ecosystem responses to climate variability
and change (review) [2019-08 synthesis](#)
Australia's new Threatened Species Index: the ASX of conservation [2018-06 threatened](#)
Australia's newest globally consistent ecosystem map [2018-03 map](#)
Australia's newest weed [2018-11 weed](#)
Austrian Agency for Health and Food Safety Ltd [2016-11 tea](#)
Available Water Content across Australia [2017-02 Google](#)

bacterial bioactive metabolites, in soil samples [2019-11 drug](#)
Baker, Sue [2019-03 learning](#)
Balcanoona, SA, natural temperate grassland survey [2013-09 surveys](#)
Ball, Andy [2020-07 Centre](#)
banded iron formations (BIF) [2014-07 van Leeuwen](#)

Banksia Award, won by ACEAS Indigenous bio-cultural knowledge group [2014-12 ACEAS](#)
Banksia woodland, new transect, WA [2022-12 new](#)
bare ground and dust storm monitoring [2014-01 windy](#)
Barest Earth data [2021-02 Earth](#)
 applications [2021-02 Earth](#)
Barrett, Damien [2012-07 working](#)
Barrett, Tom [2019-01 ecoEd](#)
Bartolo, Renee [2019-01 virtual](#)
Baruch, Zdravko [2018-09 data](#)
basal area measurement [2014-12 practical](#)
 photopoint method [2013-12 scaling](#)
BASE project *see* Biome of Australian Soil Environments (BASE) project
Bastin, Jean-Francois [2019-04 shaping](#), [2020-06 trusted](#)
bats
 Bat calls – helping to track biodiversity change [2023-03 bat](#)
 Hendra virus and high disease transmission risk periods [2020-03 environmental](#)
Bauman, David [2022-05 climate](#)
Baumgartner, Lee [2020-01 Institute](#)
Bayraktarov, Elisa [2018-06 threatened](#), [2021-07 threatened](#), [2023-02 state](#)
BBC crew film EucFACE experiment [2013-01 EucFACE](#)
beach video observations, CoastalCOMS data [2012-10 coastal](#), [2013-06 keep](#)
Beardsmore, Graeme [2024-11 heat](#)
Beaumont, Linda [2013-11 universities](#)
Beazley, Lyn
 on key scientific issues, technologies and engagement activities addressed by TERN
 infrastructure [2020-10 TERN](#)
 past Chair of TERN Advisory Board [2020-12 Possingham](#)
Beckett, Duan [2014-08 SPEDDEXES](#)
bees, native, as horticultural crop pollinators [2020-03 environmental](#)
Beggs, Paul [2019-10 pollen](#)
Beh, Chin-Liang [2016-03 desert](#)
Bekessy, Sarah [2020-02 liveability](#)
Belbin, Lee [2016-03 open data](#)
Bell, Jeffrey [2022-07 forest](#)
below canopy laser scanning of forests using drones [2020-08 training](#)
below ground environmental monitoring, VMS use, Qld and SA [2024-01 extending](#)
Benefits of ‘soft’ research infrastructure for Australia’s ecosystem scientists [2012-06 benefits](#)
Bennion, Vicki [2024-09 tidal](#)
Beringer, Jason [2013-07 tall](#), [2014-01 connecting](#), [2014-03 modelling](#), [2020-01 prototype](#),
[2020-06 OzFlux](#), [2020-07 update](#), [2020-10 monitoring](#), [2021-01 forests](#), [2021-03 Howard](#),
[2022-05 long-term](#)
Bernier, Natacha [2023-06 update](#)
Bertsch, Paul, joins TERN Advisory Board [2022-08 update](#)
Beta of ÆKOS data portal moves rapidly towards production [2013-01 beta](#)
Betting on bettings, and a combo of statistics and ecology [2014-02 betting](#)
Beyond pretty pictures: real data, real information, real impact from drones [2017-06 pictures](#)
big data
 and online tools improve farms from the ground up [2019-09 big data](#)
 collaborative projects [2014-04 sky](#)
 national scale trends in fish diversity, abundance and length [2019-04 ecocloud](#)

TERN CoESRA Virtual Desktop [2019-01 virtual](#), [2019-04 ecocloud](#), [2020-10 hot](#)
trusted services empower research and higher education [2017-05 big data](#)
used to assess fire ecology of Kakadu [2017-08 Kakadu](#)
big data problems, cloud computing for Threatened Species Index workflow [2018-06](#)
[threatened](#)
Big questions need big solutions: Australia's carbon cycle [2012-07 big](#)
Binks, Oliver [2022-03 novel](#)
bioacoustic sensors [2012-10 eclipsed](#), [2017-05 sound](#), [2019-05 biosphere](#)
BioAcoustics Data Portal [2017-05 sound](#), [2019-05 biosphere](#)
bioclimate indices [2015-04 climate](#)
biodiversity
and European land use - debate [2012-02 landscape](#), [2012-04 romantics](#)
and soil microbiome [2021-09 soil](#)
and the carbon economy [2012-07 carbon](#)
cost-benefit of documenting Australia's biodiversity [2021-06 cost-benefit](#)
decline in Australia during 2021 [2022-03 environment](#)
decline of 2.8% since 2000 [2024-03 environment](#)
farms dams contributing to biodiversity on farms [2020-06 SMART](#)
weed interactions [2017-12 weeds](#)
Biodiversity Adaptation Transect Sydney (BATS) [2018-05 Doolette](#)
new AusPlots sites along [2015-12 catchment](#)
Biodiversity and Climate Change Virtual Laboratory (BCCVL) [2016-11 AEKOS](#), [2017-11](#)
[raptors](#)
role in EcoEd [2017-06 ecoEd](#), [2019-01 ecoEd](#)
biodiversity conservation
and weed load reduction [2020-04 Deakin](#)
for regional forest agreements and CAR reserves [2014-11 forestry](#)
of South Australia's flora under climate change [2018-07 climate](#)
sandplain ecosystems, WA [2017-03 conserving](#)
biodiversity data
and responsible data publishing [2017-07 responsible](#), [2018-07 Tanami](#)
Southern Tanami Indigenous Protected Area [2018-07 Tanami](#)
Biodiversity and Environmental Change: monitoring, challenges and direction (CSIRO
Publishing) [2014-02 landmark](#), [2016-09 global](#),
background to the book [2014-02 landmark](#)
launched
review [2015-04 biodiversity](#)
Biodiversity Data Repository project [2022-03 TERN](#)
biodiversity hotspot
and re-discovered exotic grass, Tasmanian Midlands [2020-04 grass](#)
and their threats identified [2016-09 biodiversity](#)
biodiversity landscape approach to forest conservation planning [2019-08 Yee](#)
Biodiversity Modelling and Scenarios [2012-05 business](#)
biodiversity monitoring
camera traps for [2017-09 camera](#)
citizen science for long-term monitoring of orchids [2022-03 citizen](#)
microbat calls for identification purposes [2023-03 bat](#)
unique ecosystems, WA [2020-10 monitoring](#)
using acoustic sensors [2017-05 sound](#), [2019-05 biosphere](#)
biodiversity research, business and social science funding of, France [2012-05 business](#)

biodiversity science, linking integrated space-based and in-situ observations [2019-11 biodiversity](#)

biodiversity transects, initial monitoring of three new WA transects – Banksia woodland, Wandoo and Mulga-line [2022-12 new](#)

biogeochemical cycling [2012-12 millions](#)
of carbon, water and nutrients in multiple ecosystem types [2012-07 big](#)

biogeographic regions, fire management [2014-01 managing](#)

Biogeosciences special issue, compendium of research using TERN's OzFlux infrastructure [2016-06 flux](#), [2016-06 smile](#)

Biological Data Recording System (ALA) [2012-12 improving](#), [2013-01 new](#)

Biological Databases of South Australia [2016-09 biodiversity](#)

Biological Surveys of South Australia (BSSA) [2014-10 quiet](#)

biomarkers, leaf waxes from a range of Australian environments for indicating climate [2014-08 Howard](#), [2019-02 waxes](#)

biomass data, long-term above-ground woody biomass data available [2022-07 biomass](#)

biomass measurement
airborne LiDAR use [2014-06 value](#)
by photography [2014-10 measuring](#)
using on-ground remote sensing, virtual forests [2018-11 forests](#)

Biomass Plot Library (TERN) [2016-10 drones](#)

biomes
Australia, photospheres [2014-10 armchair](#)
plant community flowering times, climate effects [2022-07 research](#)

Biomes of Australian Soil Environments (BASE) [2013-05 collaborative](#), [2014-04 NCRIS](#), [2014-08 creating](#), [2021-09 soil](#)

Bioplatforms Australia [2014-04 NCRIS](#), [2014-08 creating](#), [2017-08 EcoCloud](#), [2021-04 predicting](#)

BIOS2 Model [2017-01 angry](#)

biosphere
Integrated Earth 2023 conference, Canberra [2023-11 Integrated](#)
temperature limits regulating carbon uptake, Earth's terrestrial biosphere [2021-03 ecosystem](#)

Biosphere Soundscapes at the arts-science interface [2019-05 biosphere](#)

'Birch effect' of soil respiration [2023-06 soil](#)

Birchip Cropping Group [2014-11 National](#), [2019-09 big data](#)

bird monitoring
citizen science collaboration with TERN, at Samford Ecological Research Facility on TERN's Samford Peri-Urban SuperSite [2021-05 Brisbane](#)
TERN's bird-survey app tested by Brisbane bird watchers [2022-08 web-based](#)

bird species
Tumbarumba Wet Eucalypt SuperSite [2017-05 sound](#)
Warra Tall Eucalypt SuperSite [2016-03 global](#), [2017-05 sound](#)
working with the community to collect data on raptors [2017-11 raptors](#)

BirdLife Australia [2017-11 raptors](#), [2018-06 threatened](#)

birds
acoustic sensors to measure dawn chorus during total eclipse [2012-10 eclipsed](#)
changing the influence of despotic species [2011-09 despotic](#)
environmental causes of population decline, superb fairy-wrens [2018-08 song-bird](#)
impact of heatwaves, arid zone birds [2020-01 heatwaves](#)
prenatal acoustic communication, and changing environmental conditions [2020-04 Deakin](#)

Threatened Species Index and management data for 2022 [2023-02 state](#)
birds eggs, colour variation, across Australia [2019-05 birds eggs](#)
Birriliburu Indigenous Protected Area, WA, land monitoring and vegetation documentation
[2014-09 collaboration](#)
Birriliburu Indigenous Rangers, WA, knowledge exchange and skills training [2014-07 van](#)
[Leeuwen, 2014-09 collaboration](#)
Bishop, Julie [2014-04 NCRIS](#)
Bishop, Tom [2016-09 NSW](#)
Black Box floodplain community, along the Murray River, student monitoring [2017-01](#)
[books](#)
Blanco-Martin, Bernardo [2019-02 R package](#)
Bloomfield, Keith [2013-06 appreciating](#)
bluebush (*Maireana sedifolia*), growth between drought and control plots [2018-10 drought](#)
Boehm, Barry [2013-01 beta](#)
Boer, Matthias [2016-09 NSW](#)
Bogabri, NSW, remnant vegetation, TERN ecosystem surveillance plot site [2019-07](#)
[observatory](#)
Bogong data gives context for a warming tundra [2013-08 Bogong](#)
Bogong High Plains [2012-08 sustaining](#), [2013-08 Bogong](#), [2017-06 decades](#)
Bond, Nick [2021-04 Research](#)
Bonnington, Paul [2023-03 update](#)
Booderee bandicoots bounce back [2016-09 Booderee](#)
Booderee National Park
ANU undergraduate students field-based learning at [2014-09 Gibbons](#)
protection for eastern bristlebird [2013-11 plot](#)
southern brown bandicoot reintroduction [2016-09 Booderee](#)
Book on understanding climate change has local connection [2012-08 book](#)
Boom and bust for biodiversity in arid Australia [2012-09 boom](#)
Borneo Orangutan Survival Foundation [2019-10 counting](#)
Bosch Guerra, Nestor [2019-04 ecocloud](#)
Boston University [2013-08 TERN](#), [2017-04 London](#)
The botanists [2020-10 botanists](#)
Bott, Nathan [2020-07 Centre](#)
Bounceback program, feral animal control, Flinders Ranges [2014-02 experience](#)
Bower, Debbie [2020-06 SMART](#)
Bowman, Alexandra [2015-09 track](#)
Bowman, David [2012-11 fire](#), [2013-01 seeing](#), [2016-03 Furlaud](#)
Boyagin Rock Nature Reserve, WA, cultural significance and unique biodiversity [2021-06](#)
[Boyagin](#)
Boyagin Wandoo Woodland SuperSite, WA [2021-06 Boyagin](#)
and Ridgefield Ozflux site, pair of flux monitoring towers approx. 4 km apart [2021-06](#)
[Boyagin, 2023-04 real](#)
as Critical Zone Observatory site [2021-06 Boyagin](#)
biodiversity monitoring [2020-10 monitoring](#)
ecosystem productivity and stress monitoring infrastructure installed [2020-10 monitoring](#)
ecosystem stress detection [2021-06 Boyagin](#)
SIF sensor instillation [2020-01 prototype](#)
Braby, Michael [2013-05 collaborative](#)
Bradford, Matt [2021-11 tour](#)
Bradshaw, Alison [2012-12 engaging](#)

Bradshaw, Corey [2012-07 carbon](#), [2012-12 special](#), [2013-02 TERN](#), [2020-11 Global](#)
submits associated research data into AEKOS Data Portal [2015-03 Bradshaw](#)
brahminy kite (*Haliastur indus*) [2017-11 raptors](#)
Bray, Steven [2021-06 improved](#)
A break with tradition brings state-of-the-art modelling [2012-03 break](#)
Breed, Martin [2014-05 SHaRED](#)
Brennan, Kym [2013-05 collaborative](#)
Brewer, Billy-Jo [2019-06 training](#)
Bridging a continental data divide [2012-10 bridging](#)
Brigalow Belt, Qld, CosmOz sensor installation [2020-02 cosmic](#)
Bringing Australia's ecological data together for continental scale science and policy [2011-08](#)
[bringing](#)
Brisbane Citizen Scientists close the gap in TERN bird monitoring [2021-05 Brisbane](#)
Bristow, Mila [2013-07 NATT](#)
'Brno Declaration' on global importance of research infrastructures welcomed [2023-02 Brno](#),
[2023-02 update](#)
Broich, Mark [2015-03 phenology](#)
Brook, Ken [2022-07 update](#)
Brookfield Conservation Park, SA
field botanists verify flora data [2020-10 botanists](#)
summary of TERN plots [2020-10 botanists](#)
Brookhouse, Matthew [2019-01 ecoEd](#)
Broomhall, Mark [2011-12 data](#)
Brown, Mark [2021-08 University](#)
Brown, Tim [2016-06 smile](#), [2017-03 raspberry](#), [2019-09 camera](#)
Brown, Zach [2023-01 partners](#)
Browne, Claire [2019-09 big data](#)
Bryan, Brett [2020-04 Deakin](#)
Buchanan, Kate [2020-04 Deakin](#)
Budding scientists build better maps [2016-06 budding](#)
Budel, Jesse [2019-05 biosphere](#)
Buettel, Jessie, forest treefall events in forests [2016-11 Buettel](#)
Building a global picture of plant ecological function [2021-07 building](#)
Building an accurate bird's-eye view [2012-12 building](#)
Building Australia's most advanced environmental decision-support system [2019-05 building](#)
Bullard, Joanna [2015-06 cyanobacteria](#)
Bunting, Peter [2016-03 satellite](#)
Bunya mountains, Qld, ecosystem surveillance plot site [2019-07 observatory](#)
Burba, George [2020-01 safeguarding](#)
Burdekin Basin, pilot project to add TERN infrastructure to [2020-05 update](#)
Burdekin catchment, Qld, VMS installation [2024-01 extending](#)
Bureau of Meteorology
ACCESS-G data [2015-03 OZFluxQC](#)
climate data incorporated into Soil Moisture Integration and Prediction System (SMIPS)
[2020-02 cosmic](#)
grass curing maps derived from satellite images [2015-01 green](#)
improving access to national climate data [2013-05 improving](#)
Soil Moisture Integration and Prediction System (SMIPS) collaborator [2021-10 getting](#)
SPEDDEXES collaborative development [2014-08 SPEDDEXES](#)
Burgess, Leigh [2021-10 French](#)

Burgman, Mark [2012-02 pressure](#), [2012-09 analysis](#)

Burns, Emma [2013-05 collaborative](#), [2013-11 plot](#), [2014-01 erratic](#), [2014-12 research](#), [2015-04 biodiversity](#), [2017-04 farms](#)

burnt area mapping

- index, South Australia [2017-01 fire](#)
- to assess extent of fires and support measurement of carbon emissions from fires [2012-12 building](#)

Bush Fire Environmental Assessment Code [2020-04 erosion](#)

bush foods, as Indigenous business [2021-11 TERN](#)

Bush Heritage Australia [2013-11 plot](#), [2014-09 collaboration](#), [2017-09 sample](#)

- TERN ecosystem surveillance sites on [2019-07 observatory](#)
- TERN's collaboration with [2019-07 observatory](#)

Bushfire and Natural Hazards Cooperative Research Centre [2012-11 mapping](#), [2014-01 watchful](#), [2015-04 climate](#), [2016-03 Furlaud](#), [2017-02 Edwards](#), [2020-02 Centre](#)

Bushfire Data Challenges Program [2021-07 helping](#)

bushfire recovery

- and hillslope erosion monitoring and prediction [2020-04 erosion](#)
- Mallee vegetation [2020-11 Calperum](#)

bushfires

- detection and visualisation [2014-01 watchful](#)
- Google Crisis Response [2013-01 acorn](#)
- helping protect Australians from the dangers of bushfires [2021-07 helping](#)
- impact on monitoring equipment, Calperum Mallee SuperSite, SA [2018-09 sensitive](#), [2020-01 safeguarding](#)
- impact on sensitive sensors, Litchfield Savanna SuperSite, NT [2018-09 sensitive](#)
- impact on soils, Kangaroo Island study [2021-10 monitoring](#)
- impact on Tumberumba Wet Eucalypt SuperSite, NSW [2020-01 prototype](#)
- impact on Warra Tall Eucalypt SuperSite, Tas. [2016-03 Furlaud](#), [2019-03 learning](#), [2020-01 safeguarding](#)
- impact on water resources—for ecosystems and humans alike [2023-12 bushfire](#)
- mapping and impacts [2014-01 watchful](#), [2015-04 climate](#), [2017-01 fire](#)
- modelling, Ozius's Biome environmental management product use [2022-05 commercial](#)
- national fuel load data [2021-07 helping](#)
- patterns determined by tropical summer monsoons, Australia [2012-11 Australian](#)
- post-fire data on forest fuel loads, Tasmania [2016-03 Furlaud](#)
- post-fire surveys, ecosystem recovery, Kangaroo Island [2020-09 Kangaroo](#)
- prediction, citizen science app for people living in fire-prone areas [2021-08 University](#)
- preparedness [2020-02 Centre](#)
- prevention, fuel reduction burns impact on soil greenhouse gas exchange [2015-06 impacts](#)
- protecting national research infrastructure from [2020-01 safeguarding](#)
- reviewing post-fire recovery and ecological management effectiveness [2021-10 reviewing](#)
- satellite data in management of [2021-11 ANU](#)

Bushfires NT [2012-11 characterising](#)

Business and social science back French biodiversity research [2012-05 business](#)

businesses, support for biodiversity research, France [2012-05 business](#)

Butler, Harry [2021-01 Butler](#)

Byrne, Margaret [2014-04 fostering](#), [2020-10 monitoring](#), [2021-08 update](#)

Byrnes, Peter [2013-04 learners](#)

Byrt, Caitlin [2021-11 ANU](#)

Bywaters, Sam [2019-06 training](#)

C₃ pathway, and plant survival [2021-04 photosynthetic](#)
C₃ plants, terrestrial carbon isoscape maps, Australia [2022-08 vegetation](#)
C₄ pathway, and plant survival [2021-04 photosynthetic](#)
C₄ plants, terrestrial carbon isoscape maps, Australia [2022-08 vegetation](#)
CABLE (Community Atmosphere-Biosphere-Land Exchange model) [2013-01 accurate](#),
[2016-10 Haverd](#), [2017-10 students](#), [2018-07 stepping](#)
OzFlux data used to improve the predictions of [2012-12 millions](#)
Caddy-Retalic, Stefan [2012-10 ecology](#), [2013-04 students](#), [2013-07 agriculture](#), [2013-07 AusPlots](#), [2013-09 surveys](#), [2013-10 sandplains](#), [2013-11 smile](#), [2014-05 sample](#)
Calders, Kim [2018-11 forests](#), [2020-02 ghost](#), [2023-01 experience](#)
Cale, Peter [2013-04 learners](#), [2014-01 TERN](#), [2015-12 catchment](#), [2017-01 books](#), [2020-11 Calperum](#)
Call to action: long-term planning for Australian ecosystem science [2013-12 call](#)
Callistemon species, genetic diversity [2013-04 students](#)
Calperum Mallee SuperSite, SA [2017-01 books](#)
AusPlots Rangelands field training [2012-02 full](#)
education and training activities [2013-04 learners](#), [2014-09 nation-wide](#)
eight AusCover team members from four states descended on the site to take field measurements [2012-02 four](#)
National Australia Bank volunteers at [2015-09 NAB](#)
photosphere [2014-10 armchair](#)
plant functional traits [2018-09 data](#)
practical training in plot-based ecological monitoring in rangeland ecosystems [2019-02 train](#), [2019-06 training](#)
research, measurements and data on Mallee ecosystems [2020-11 Calperum](#)
research and activities [2011-12 SuperSite](#)
Riverland Biosphere Soundscape Lab [2019-05 biosphere](#)
sensitive monitoring equipment survives bushfire [2018-09 sensitive](#), [2020-01 safeguarding](#)
tea bag monitoring [2016-11 tea](#)
TERN infrastructure burns but lives to tell the tale [2014-01 TERN](#)
Calperum Station, SA
Australian Landscape Trust management and projects [2012-08 rangelands](#)
CZO sensor installation [2022-05 CZO](#)
geotechnical measurement of depth of groundwater and bedrock [2020-05 CZO](#)
Heat Needle Project: an AuScope-TERN-OZCZO joint venture [2024-11 heat](#)
CalVal handbook for remote sensing [2018-08 CalVal](#)
CAM pathway, and plant survival [2021-04 photosynthetic](#)
Camacho, Fernando [2018-08 global](#)
camera monitoring
nesting boxes, striped possums [2016-09 possum](#)
ospreys [2016-09 possum](#)
see also phenocams
camera traps
lesser hairy-footed dunnart interactions with wolf spiders [2022-12 night](#)
monitoring nocturnal hunting spiders, complex desert ecosystems [2022-12 night](#)
reveal biodiversity at high-tech ecosystem observatories [2017-09 camera](#)
to monitor, dingoes, feral cats and red foxes [2014-11 mice](#)
to observe wildlife [2022-08 observing](#)
Campbell, Andrew [2012-05 TERN](#), [2018-08 Top End](#)

Campbell, Bradley [2013-11 students](#)
Campbell, Dave [2020-07 Kopuatai](#)
Campbell, Tristan [2020-07 honey](#)
Cape Tribulation SuperSite *see* Daintree Rainforest Observatory (SuperSite)
Cape York Peninsula, Ecosystem Surveillance sites [2018-09 Cape York](#)
Capon, Samantha [2011-12 wild](#)
carbon accounting
 and vegetation and habitat monitoring, drone use [2016-10 drones](#)
 eucalypt forests versus melaleuca forests [2019-10 heat](#)
 FullCAM model [2018-08 greenhouse](#)
carbon budget shifts, drought ends green boom in Australia [2016-12 drought](#)
carbon budgets
 a more accurate terrestrial carbon budget for Australia [2013-01 accurate](#)
 change in CO₂ budgets as dry periods become drier and wet ones wetter [2019-12 sink](#)
 dairy pastures, NZ [2014-11 Hunt](#)
 global, from scaled up virtual forest biomass measurements [2018-11 forests](#)
 and greenhouse gas emissions, from agricultural systems, NZ [2019-11 Manaaki](#)
 irrigated and non-irrigated lucerne, NZ [2020-11 Ashley](#)
 modelling, Australian annual terrestrial [2016-10 Haverd](#)
carbon cycle, and groundwater acidity, tropical savannas [2014-03 plumbing](#), [2015-05 plumbing](#)
carbon cycling through streams and rivers, and how it affects tropical ecosystems [2023-11 Chicago](#)
Carbon data improving models, research and policy [2013-02 carbon](#)
carbon dataset [2021-08 quantify](#)
carbon dioxide concentrations
 atmospheric, *Eucalyptus microcorys* response to [2013-02 carbon](#)
 global, Australia's contributions to [2013-02 carbon](#)
carbon dioxide fertilisation, trends, Howard Springs OzFlux tower site, NT [2021-03 Howard](#)
carbon dioxide pulses, semi-arid regions at onset of the wet season [2023-06 soil](#)
carbon dynamics
 and seasonal vegetation changes [2014-10 Moore](#)
 estuarine systems [2012-07 study](#)
carbon emissions, connection to cyclones, tropical savanna ecosystems [2014-01 connecting](#),
[2014-03 cyclones](#), [2015-04 capabilities](#)
Carbon Farming Initiative (CI), savanna-burning project [2012-07 savanna](#), [2012-11 savanna](#),
[2014-03 cyclones](#), [2019-10 RIEL](#)
carbon isoscape maps, C₃ and C₄ plant cover, Australia [2022-08 vegetation](#)
carbon-market savanna burning approaches, NT [2017-07 Kakadu](#), [2017-08 Kakadu](#)
carbon measurements, from flux towers before, during and after a fire event [2019-12 essential](#)
carbon-neutral agriculture, what is it? [2023-04 neutral](#)
carbon sequestration
 agricultural soil ecosystems, flux data studies [2022-07 flux](#)
 dairy pastures, NZ [2014-11 Hunt](#)
 ecological carbon sequestration feasibility [2022-05 long-term](#)
 how much carbon can be stored in the landscape? [2012-07 working](#)
 land management and Australian biodiversity [2012-07 carbon](#)
 Melaleuca forests [2019-10 heat](#)
 tropical peatlands, Indonesia [2019-10 counting](#)

carbon stocks
and greenhouse gas emissions, from deforestation and forest degradation, PNG [2019-09 rainforest](#)
standardising long-term monitoring [2012-07 standardising](#)
stored in vegetation biomass [2012-07 standardising](#), [2012-12 building](#)
carbon, water and nutrient cycling in multiple ecosystem types [2012-07 big](#)
Careers grounded in soils (booklet) [2022-12 update](#)
Carey Baptist Grammar School students, Melbourne, hands-on ecosystem science, at FNQ Rainforest SuperSite [2013-04 learners](#), [2013-11 future](#)
Carlin, Geoffrey [2012-06 benefits](#)
Carnarvon Station Reserve, Qld, TERN ecosystem surveillance plot sites [2019-07 observatory](#)
Carr, Maisie [2017-06 decades](#)
Carrick, Sarah [2019-04 Mitchell](#)
Carter, Dan [2011-12 data](#)
Casanova, Michelle [2013-07 tall](#)
Catch up with TERN at the Ecological Society of Australia conference [2021-10 catch](#)
Catchment to coast via the city: TERN expands ecosystem monitoring infrastructure in NSW [2015-12 catchment](#)
catchments, Great Barrier Reef, pollutant load monitoring [2013-09 integrating](#)
Category Normalized Citation Impact (CNCI), TERN-facilitated publications [2019-03 publications](#)
Cathcart-Van Weeren, Ella [2024-09 fostering](#)
cattle grazing
and rangeland condition monitoring [2014-02 experience](#)
impact on ants, tropical savannas [2015-09 living](#)
Cavender-Bares, Jeannine [2019-11 biodiversity](#)
Celebrating the Soil and Landscape Grid of Australia's half-birthday! [2015-06 Soil](#)
central Australian grasslands and savannas, 2011 green boom finished and replaced by drought conditions [2016-12 drought](#)
Central Desert Native Title Services [2014-09 collaboration](#)
Central Highlands, Tasmania, ecosystem surveillance, pre- and post-February 2019 fires using *Collect Earth* software [2020-07 collect](#)
Central Highlands of Victoria, mountain ash forest ecosystem risk assessment [2014-12 research](#)
Central Land Council [2018-07 Tanami](#)
Central Queensland University, researchers [2023-03 bat](#)
Centre for Aboriginal Economic Policy Research (ANU) [2013-01 age-old](#)
Centre for Air pollution, energy and health Research (CAR) [2019-01 virtual](#)
Centre for Australian National Biodiversity Research (CSIRO) [2022-03 citizen](#)
Centre for Ecosystem Management (Edith Cowan University), research and activities [2020-09 Centre](#)
Centre for Environmental Sustainability and Remediation (EnSuRe) (RMIT), research and activities [2020-07 Centre](#)
Centre for Forest Value (University of Tasmania), research and activities [2020-08 training](#)
Centre for Integrative Ecology (Deakin University), research and activities [2020-04 Deakin](#)
Centre for Synthesis and Analysis of Biodiversity (CESAB), France [2012-05 business](#), [2013-08 collaboration](#)
Centre for Tropical Environmental and Sustainability Science (TESS) (James Cook University), research activities and student research [2019-09 Centre](#)

[Centre for Water and Landscape Dynamics \(WALD\) \(ANU\) 2017-03 pulse, 2018-12 landscape, 2019-05 environment, 2020-02 Centre, 2020-03 environment, 2020-03 update, 2020-08 environment, 2022-03 environment research and activities 2020-02 Centre](#)

[Centre of Excellence in Natural Resource Management \(University of Western Australia\) 2021-09 Centre](#)

Centre spotlight

[ANU Institute for Space 2021-11 ANU](#)

[ARC Centre of Excellence for Australian Biodiversity and Heritage 2021-03 ARC](#)

[Centre for Ecosystem Management 2020-09 Centre](#)

[Centre for Environmental Sustainability and Remediation 2020-07 Centre](#)

[Centre for Tropical Environmental and Sustainability Science 2019-09 Centre](#)

[Centre for Water and Landscape Dynamics 2020-02 Centre](#)

[Centre of Excellence in Natural Resource Management 2021-09 Centre](#)

[Deakin University Centre for Integrative Ecology 2020-04 Deakin](#)

[Environment Institute 2022-03 Institute](#)

[Environmental Futures Research Institute 2020-03 environmental](#)

[Global Ecology Laboratory 2020-11 Global](#)

[Harry Butler Institute 2021-01 Butler](#)

[Hawkesbury Institute for the Environment 2019-07 Hawkesbury](#)

[Institute for Land, Water and Society 2020-01 Institute](#)

[Manaaki Whenua – Landcare Research 2019-11 Manaaki](#)

[Remote Sensing Research Centre 2019-06 remote](#)

[Research Centre for Applied Alpine Ecology 2021-04 Research](#)

[Research Institute for the Environment and Livelihoods \(RIEL\) 2019-10 RIEL](#)

[Spatial Sciences Group 2019-08 Spatial](#)

[Training Centre for Forest Value 2020-08 training](#)

[University of Canberra Institute for Applied Ecology 2020-05 Canberra](#)

[University of New England – SMART Farms 2020-06 SMART](#)

[University of the Sunshine Coast Forest Research Institute 2021-08 University](#)

[Centurion \(tallest known *Eucalyptus regnans*, Arve Valley, Tas.\) 2012-11 fire](#)

[Cernusak, Lucas 2021-03 paddock](#)

[Chabbi, Abad 2016-03 global](#)

[The challenge of open data 2013-02 TERN](#)

[Changing the availability of nutrients in global grasslands 2020-09 changing](#)

[Chapman, Clint 2017-10 students](#)

[Characterising fire in northern Australia 2012-11 characterising](#)

[Charles, Lachlan 2022-07 biomass](#)

[Charles Darwin University 2018-09 sensitive](#)

[challenges in managing Litchfield Savanna SuperSite equipment 2021-11 verifying](#)

[collaboration on fire characterisation in tropical savannas 2012-11 characterising](#)

[Darwin Centre for Bushfire Research 2017-02 Edwards, 2017-07 Kakadu, 2017-08 Kakadu](#)

[hosts northern Australia AusCover node 2014-07 Jacklyn](#)

[management of northern coastal catchments 2014-03 integrated](#)

[postgraduate research 2015-09 living, 2023-11 Chicago](#)

[prediction of water weed spread Kakadu National Park 2014-03 helping](#)

[Research Institute for the Environment and Livelihoods \(RIEL\) 2012-05 new, 2018-08 Top End, 2019-10 RIEL](#)

[researchers 2012-11 mapping, 2012-11 savanna, 2013-02 TERN, 2013-07 NATT, 2014-01 hot, 2014-03 long-term, 2014-03 plumbing, 2015-04 ecologically, 2015-05 plumbing,](#)

[2017-06 decades](#), [2021-03 Howard](#)
student training in field work and remote sensing at Litchfield Savanna SuperSite [2013-04 learners](#), [2013-11 universities](#), [2014-09 nation-wide](#)
students welcomed to Three Parks Savanna Fire Effects Plot Network [2013-05 collaborative](#)
use TERN infrastructure
 data and research techniques in undergraduate course curriculum [2013-11 universities](#)
 to investigate impacts of land-use change in NT [2013-07 NATT](#)
Charles Sturt University [2020-03 investigating](#)
 Institute for Land, Water and Society [2020-01 Institute](#)
Chedzey, Helen [2011-12 data](#)
Chen, Robert S. [2019-12 systems](#)
Chieppa, Jeff [2019-07 Hawkesbury](#)
Chinese Academy of Sciences, researchers [2021-01 forests](#)
Chinese Ecosystem Research Network (CERN) [2016-03 global](#), [2016-11 NASA](#)
 Mike Liddell visit to [2015-02 TERN](#)
 TERN MoU with [2017-10 observatory](#)
Chinnick, Paul [2011-08 bringing](#)
Chittleborough, David [2019-07 treetop](#), [2024-01 extending](#)
Cho, Jaeil [2022-08 update](#)
Chognard, Sebastian [2024-01 data](#)
Chowilla, SA *see* Calperum Mallee SuperSite, SA
Christensen, Bek (Rebekah) [2013-12 scaling](#), [2014-06 evolution](#), [2014-07 foundations](#), [2015-06 condition](#), [2018-12 long-term](#), [2019-11 ESAus19](#), [2021-10 catch](#)
Christmas, Matt [2014-05 sample](#), [2017-09 sample](#), [2018-07 climate](#)
Chubb, Ian (Chief Scientist) [2013-01 acorn](#), [2013-08 like](#)
 A pleasure watching progress of successful investment: Chief Scientist [at TERN
 Symposium 2013 launch] [2013-02 pleasure](#)
 launches *Foundations for the future: a long-term plan for Australian ecosystem science*
 [2014-07 foundations](#)
CIRCASA (Coordination of International Research Cooperation on Soil Carbon
Sequestration in Agriculture) [2020-04 remote](#)
citizen science
 app for people living in fire-prone areas – NOBURN [2021-08 University](#)
 assisting TREND [2011-11 science](#), [2012-10 ecology](#), [2013-04 students](#)
 bird monitoring, collaboration with TERN, at Samford Ecological Research Facility on
 TERN's Samford Peri-Urban SuperSite [2021-05 Brisbane](#), [2022-08 web-based](#)
 collecting data on three iconic raptor species [2017-11 raptors](#)
 Earth Track app for collection of land cover and land cover change data [2024-01 data](#)
 importance for collecting long-term data sets [2022-03 citizen](#)
 data collection and analysis, symposium at ESAus20 [2020-11 ESAus20](#)
 tea bag decomposition monitoring [2016-11 tea](#)
 Schools Weather and Air Quality (SWAQ) [2021-09 Sydney](#)
 TERN supports for long-term biodiversity monitoring of orchids [2022-03 citizen](#)
 TERN's web-based app tested by Brisbane bird watchers [2022-08 web-based](#)
 TREND App, featured on Channel Ten's 'Scope: Science TV for kids' [2016-06 TV](#)
 use of TREND photos to monitor effects of controlled burns, Cleland Conservation Park,
 Adelaide [2013-11 smile](#)
City College of New York [2019-11 biodiversity](#)
Clancy, Tim [2012-12 engaging](#), [2013-10 western](#), [2015-01 critical](#), [2018-12 long-term](#)

on accessing TERN data through DataONE's *ONEMercury* platform [2015-06 DataONE](#)
at TERN Symposium 2013 [2013-02 two](#)
attends ILTER meeting
Chile [2015-02 TERN](#)
South Korea [2013-10 TERN](#)
on the benefits of SHaRED [2014-05 SHaRED](#)
leads Data Management Workshop, Canberra [2013-04 developing](#)
TERN collaboration with ABARES [2012-08 working](#)
TERN past, present and future [2012-04 TERN](#)
Clark, Megan [2012-09 networked](#)
Clarke, Ken [2017-01 fire](#), [2018-03 map](#), [2019-08 Spatial](#)
Cleland Conservation Park, Adelaide, citizen science monitoring of post-controlled burn
vegetation regrowth [2013-11 smile](#)
Cleugh, Helen [2012-02 cross-Tasman](#), [2012-03 break](#), [2012-07 working](#), [2012-12 special](#),
[2013-02 carbon](#), [2013-12 several](#), [2015-01 critical](#), [2016-06 flux](#), [2017-05 data](#), [2019-12](#)
[Snowy](#), [2021-08 update](#)
Cleverly, James [2017-01 angry](#), [2017-07 breathing](#), [2019-03 publications](#), [2019-07 treetop](#),
[2019-12 sink](#), [2019-12 systems](#), [2020-03 investigating](#), [2020-09 Alice](#), [2021-09 control](#),
[2022-05 long-term](#), [2022-08 tour](#), [2023-01 Oceania](#), [2023-06 soil](#), [2024-01 extending](#)
Clewley, Dan [2016-03 satellite](#)
climate
and data resilience, improving [2020-09 Kangaroo](#)
effect on patterns of flowering time in plant communities across six biomes [2022-07](#)
[research](#)
climate adaptation
arid ecosystems [2019-12 sink](#)
TREND sites, SA [2018-10 surveys](#)
climate buffers, forests as [2021-01 forests](#)
climate change
addressing the global challenge of forecasting ecosystem responses, through TERN's
environmental research infrastructure [2019-09 integrating](#)
and plant adaptation [2020-08 Aussie](#)
aquatic plants adaptation to [2012-02 decisions](#)
and Australian rainforest tree mortality [2022-05 climate](#)
Australia's Environment in 2022 update [2023-03 environment](#)
droughts, high temperatures and forest mortality [2013-05 extreme](#)
eMAST to predict how climate change will affect different forms of land use in different
areas [2015-04 climate](#)
endemic species response to climate change in the past [2012-02 decisions](#)
heat tips melaleuca forests from carbon sink to source [2019-10 heat](#)
impact on ant populations, North Australian Tropical Transect [2012-09 infrastructure](#)
impact on Australian mountain grassland ecosystem productivity [2018-10 Marchin](#)
impact on biodiversity [2016-09 biodiversity](#)
impact of four representative concentration pathways (RCPs) on five regions with different
agricultural systems [2012-08 imagining](#)
impact on mammal distribution, northern Australia [2012-09 wave](#)
impact on nutrient addition in managed grasslands [2020-09 changing](#)
impact on soil biota, shrubland ecosystem, WA [2020-09 Centre](#)
impact on South Australia's flora [2012-09 plants](#), [2018-07 climate](#)
management, long-term flux data reveals ecosystem role [2022-05 long-term](#)

measuring in eucalypt forests [2013-01 seeing](#)
new book - *Understanding the Earth system*, from Cambridge University Press, has TERN connection [2012-08 book](#)
OzFlux data to paint a global picture of [2012-12 millions](#)
plant adaptations and flowering time shift [2012-09 plants](#)
science, supplied by TREND, changing into policy [2013-02 carbon](#)
climate data, national, improving access to [2013-05 improving](#)
Climate, forests and nature [2022-05 climate](#)
climate modelling
decoupling photosynthesis and transpiration, heatwave conditions, woodland trees [2019-04 sweat](#)
in Australia [webinar] [2021-12 looking](#)
stepping stones for improving [2018-07 stepping](#)
climate monitoring, collaboration between TERN and NASA [2018-06 space](#)
climate predictability of flowering time patterns in plant communities across six biomes [2022-07 research](#)
climate refugia, identification, NSW [2015-04 climate](#)
climate science, national ecosystem data for [2017-10 facilitating](#)
ClimateWatch trails, Tinaroo Environmental Education Centre, FNQ [2016-03 Furlaud](#)
climatic envelopes, expansion of TERN Ecosystem Surveillance plot network across [2018-09 Cape York](#)
cloud-based research tools: EcoCloud [2017-08 EcoCloud](#), [2018-10 ecocloud](#)
CMRSET (CSIRO MODIS ReScaled EvapoTranspiration) algorithm
used to produce new TERN AET dataset [2021-08 actual](#)
v2.1 actual evapotranspiration (AET) dataset [2023-12 TERN](#)
CO₂ sink to source: arid Australia's climate and rainfall driven tipping points [2019-12 sink](#)
coastal catchments, northern Australia, management [2014-03 integrated](#)
coastal data, South-east Queensland [2014-05 collaborating](#), [2014-04 NCRIS](#)
Coastal datasets sit together under ACEF beach umbrella [2012-10 coastal](#)
coastal ecosystems
ACEF improving national capacity to manage coasts [2012-12 improving](#)
impact of extreme coastal events on [2014-01 improving](#)
movement of carbon in estuaries [2012-07 study](#)
coastal modelling, ecocloud use [2019-04 ecocloud](#)
Coastal Raptor Nests citizen science project, by Queensland's Redland City Council [2017-11 raptors](#)
Coastal Research Portal (ACEF) [2012-03 coastal](#), [2012-10 coastal](#), [2012-12 improving](#), [2013-06 appreciating](#)
coastal shoreline video data and metadata, access to [2013-06 keep](#)
Coastal web portal links local research and local councils [2012-03 coastal](#)
coastal wetland ecosystems, OzFlux measurements, French Island, Vic. [2021-10 French](#)
coastal wetlands, monitoring sea level change impact [2023-12 coastal](#)
CoastalCOMS monitoring service [2013-06 keep](#), [2014-01 improving](#)
beach observation (video) datasets [2012-10 coastal](#)
shorelines and wave height video monitoring [2012-05 taking](#)
CoastRI, a NCRIS research infrastructure to improve our understanding of coastal ecosystem processes and habitat resilience [2023-12 coastal](#)
CoESRA virtual desktop environment [2014-08 facilitating](#), [2015-03 CoESRA](#), [2015-12 vision](#), [2016-09 global](#), [2017-08 EcoCloud](#), [2019-01 virtual](#), [2019-04 ecocloud](#), [2020-05 teaching](#)

case studies to ensure reproducible science [2014-12 research](#)
case studies to showcase usability [2014-08 facilitating](#), [2015-03 CoESRA](#)
Hot and hostile: the links between temperature, aggression and crime in Australia [2020-10 hot](#)
Collaborating improves access to south-east Queensland's coastal data [2014-05 collaborating](#)
Collaboration across borders [2013-08 collaboration](#)
collaboration and cooperation
between ecological dataset holders [2011-08 bringing](#)
European [2013-08 collaboration](#), [2013-09 beer](#)
for Direct Action (on emissions reduction) [2014-04 Direct](#)
interdisciplinary, amongst ecosystem scientists and managers [2011-11 exploring](#)
international [2012-02 cross-Tasman](#), [2012-06 more](#), [2013-08 collaboration](#), [2013-09 beer](#),
[2013-12 collaborative](#), [2013-12 TERN](#), [2014-12 TERN](#), [2015-02 TERN](#), [2015-12 vision](#),
[2016-03 global](#), [2016-11 NASA](#), [2016-12 drought](#), [2017-09 Korea](#), [2017-10 observatory](#),
[2018-06 space](#), [2018-07 TERN](#), [2019-12 Snowy](#), [2022-03 novel](#)
national [2011-11 hyperspectral](#), [2011-11 world](#), [2012-08 working](#), [2012-12 millions](#), [2013-05 collaborative](#),
[2013-05 extreme](#), [2013-07 tall](#), [2014-01 connecting](#), [2014-01 improving](#),
[2014-02 betting](#), [2014-02 wake-up](#), [2014-03 cyclones](#), [2014-04 fostering](#), [2014-04 NCRIS](#),
[2014-04 sky](#), [2014-05 collaborating](#), [2014-08 creating](#), [2014-11 National](#), [2015-01 critical](#),
[2021-01 monitoring](#), [2021-01 Butler](#), [2024-02 national](#)
synthesis model of [2013-02 access](#)
with Google Earth Outreach [2012-10 AusCover](#), [2012-11 using](#), [2012-12 building](#)
with government partners [2014-02 betting](#), [2014-04 fostering](#), [2014-04 sky](#)
with higher education partners [2014-04 fostering](#), [2021-01 monitoring](#)
with Indigenous rangers [2014-09 collaboration](#)
with the broader public about science to embrace everyone's knowledge [2014-02 wake-up](#)
Collaboration between traditional knowledge and contemporary science [2014-09 collaboration](#)
[collaboration](#)
Collaborative ecology across the Tasman: EcoTas 2013 [2013-12 collaborative](#)
Collaborative Environment for Ecosystem Science Research and Analysis (CoESRA) *see*
CoESRA virtual desktop environment
Collaborative science at work in the Top End [2013-05 collaborative](#)
Collect Earth [2020-07 collect](#)
Collins, Bronwyn [2015-04 Lepschi](#)
Collins, Tim [2023-01 fresh](#)
Combining ideas on Earth systems modelling for good [2019-12 systems](#)
Come one, come all: national workshops to strengthen ecosystem science [2014-02 come](#)
Committee on Earth Observation Satellites (CEOS)
add 12 TERN SuperSites to their top 55 global sites of space-borne data calibration [2018-08 global](#)
endorses and supports Satellite Data Strategy of the Global Forest Observation Initiative (GFOI) [2011-11 continuity](#)
Commonwealth Environmental Research Facilities (CERF) program funding [2014-04 fostering](#)
Community Atmosphere-Biosphere-Land Exchange model (CABLE) [2014-04 sky](#), [2014-07 Hoar](#),
[2016-10 Haverd](#), [2017-10 facilitating](#), [2018-07 stepping](#)
Community DustWatch program [2014-01 windy](#), [2014-07 Rickards](#), [2015-04 capabilities](#),
[2015-09 satellite](#), [2018-12 dust](#)
Community Earth System Model (CESM) [2014-04 sky](#)
community education

hand-in-hand with long-term research projects [2013-11 plot](#)
Three Parks Savanna Fire Effects Plot Network [2013-05 collaborative](#)
community engagement, in ecosystem science [2012-05 engaging](#)
Comprehensive R Archive Network (CRAN), publishes new AusPlotsR package [2020-11 researcher](#)
Computer Science for High School (CS4HS) program [2013-01 acorn](#)
Condition Monitoring Protocols for Australian Rangelands [2015-06 condition](#)
Connecting cyclones and carbon emissions in our northern savannas [2014-01 connecting](#)
Connell, Joseph [2015-01 long-term](#)
Connell Rainforest Plot Network, long-term research into the development and life-cycle dynamics of tropical rainforests [2015-01 long-term](#)
conservation of native species, tool for better decision making by natural resource managers [2012-02 decisions](#)
conservation translocation, redfin blue eye fish [2020-05 Canberra](#)
Conservation Volunteers Australia
partnership in ecological monitoring, Daintree Rainforest SuperSite [2012-08 tourists](#)
volunteering opportunities at SuperSites [2014-09 nation-wide](#)
Conserving blink-and-you'll-miss-it biodiversity [2017-03 conserving](#)
Constanza, Robert [2012-05 new](#), [2013-12 fun](#)
contaminated groundwater, bioremediation [2020-07 Centre](#)
Continental Scale Daily Soil Moisture: SMIPS [2023-12 TERN](#)
Continuity for worldwide forest monitoring secured [2011-11 continuity](#)
controlled burns *see* fuel reduction burns
Cook, Peter [2017-08 Earth](#)
Cooper, Alan [2012-02 decisions](#)
Cooperative Research Centre for Spatial Information (CRCSI) [2016-10 online](#)
Project 2.07 [2014-06 value](#)
Cooperative Research Centre for Transformations in Mining Economies (CRC TiME) [2021-01 Butler](#)
COP26 Earth Information Day, TERN represented on a virtual poster at [2021-10 TERN](#)
Copernicus Global Land Service [2020-02 Centre](#)
Ground-Based Observations for Validation (GBOV) component, based at Litchfield Savanna SuperSite [2021-11 verifying](#)
Tumbarumba instrumentation provides vegetation and radiometric data for [2019-08 Copernicus](#)
Copernicus' Tower [2019-08 Copernicus](#)
Coping with complex data streams: the OzFlux approach [2012-10 coping](#)
Copley, Vince [2011-12 wild](#)
CoreTrustSeal certification, TERN seeks for e-infrastructure [2021-05 international](#)
CORVEG database, Queensland [2017-06 map](#)
Corymbia calophylla (marri), nectar source for honeybees, WA [2020-07 honey](#)
Cosmic help for down-to-earth environmental monitoring [2013-08 cosmic](#), [2020-02 cosmic](#)
COSMOS (Cosmic-ray Soil Moisture Observing System) [2013-08 cosmic](#)
CosmOz soil moisture network (CSIRO-led) [2013-09 flux](#), [2017-08 Earth](#), [2020-02 cosmic](#), [2024-12 landscapes](#)
expanding network of sensors [2020-06 soil](#)
formation, for environmental monitoring [2013-08 cosmic](#)
method development, satellite soil moisture validation, water balance and growth model validation, and fire risk prevention [2023-12 TERN](#)
sensors installed at SuperSites [2013-08 cosmic](#), [2020-02 cosmic](#)

The cost-benefit of documenting Australia's biodiversity [2021-06 cost-benefit](#)
Costanza, Bob [2012-12 Indigenous](#)
Costin, Alec [2017-06 decades](#)
Cotton, Ian [2015-06 Pilbara](#)
Council for Scientific and Industrial Research (South Africa) [2014-01 watchful](#)
Council of Australasian University Directors of Information Technology (CAUDIT),
recognises ecoEd training [2019-06 recognition](#)
Counting carbon from burning wastelands to healthy peat swamp forest [2019-10 counting](#)
countries citing TERN publications [2019-03 publications](#)
Country Fire Authority [2015-01 green](#)
coupled soil-canopy processes [2016-10 Haverd](#)
COVID-19 pandemic
Australia's national research infrastructure response to [2021-09 pillars](#)
digital soil maps the next best thing for locked-down students [2021-09 TERN](#)
impact on TERN fieldwork [2020-06 update](#), [2021-03 update](#), [2021-08 update](#)
impact on TERN HQ staff [2020-07 update](#)
Cowan, Mark [2015-06 condition](#)
Crawford, Ken [2019-07 observatory](#)
Crawford, Rebekah [2019-06 training](#)
Crawford Fund [2012-12 Indigenous](#)
Creating a global vegetation database [2014-12 creating](#)
Creating barcodes of Australia's soils [2014-08 creating](#)
Creative Commons 4.0 International suite of licences, adopted by TERN [2016-06 discovering](#)
Creative hackathon solutions demonstrate value of NCRIS and CSIRO data [2016-03](#)
[hackathon](#)
Cresswell, Ian [2021-09 update](#), [2021-11 delivering](#), [2022-08 update](#)
crime, links to temperature [2020-10 hot](#)
critical elements, predicting mineable lithium in Australia [2023-09 predicting](#)
Critical infrastructure for National Environmental Science Program [2015-01 critical](#)
critical national infrastructure [2015-01 critical](#)
critical research infrastructure [2014-06 TERN](#)
safeguarding in Australia [2014-06 safeguarding](#)
Critical Zone
layers of [2019-07 treetop](#)
what is it? [2019-07 treetop](#)
Critical Zone Observatory (CZO)
Australian universities consortium secures government funding for [2021-01 monitoring](#)
Boyagin Wandoo Woodland SuperSite and Ridgefield OzFlux sites as part of CZO [2021-](#)
[06 Boyagin](#)
Fletcherview SuperSite joins [2021-03 paddock](#)
project kicks off at Calperum [2022-05 CZO](#)
strategy for Australia [2019-07 treetop](#)
to sample Australia's geologies, biomes, land uses and climates [2021-01 monitoring](#)
VMS installations at River Murray floodplains, Burdekin catchment and Moreton Bay
[2024-01 extending](#)
see also OzCZO (Australian CZO network)
Critical Zone Science, conceptual framework [2019-07 treetop](#)
Croeser, Louise [2017-06 ecoEd](#)
Crombie, Glen [2016-10 drones](#)
crop area estimates and forecasts, remote sensing data use [2017-07 Potgieter](#)

crop production, Yield Prophet® decision support tool use [2019-09 big data](#)
crops, reducing reliance on phosphorus fertiliser [2018-05 Doolette](#)
Cross-Tasman project to monitor primary production [2012-02 cross-Tasman](#)
cryosphere, Integrated Earth 2023 conference, Canberra [2023-11 Integrated](#)
CSIRO
and ACRI-ST - GBOV collaboration [2019-08 Copernicus](#)
ant sampling, Kakadu National Park [2013-05 collaborative](#)
at terrestrial laser scanning meeting, London [2017-04 London](#)
Australia's dust and ground cover monitoring [2014-01 windy](#)
Biome of Australia Soil Environments (BASE) collaborator [2013-05 collaborative](#), [2014-04 NCRIS](#), [2014-08 creating](#)
BIOS2 Model [2017-01 angry](#)
building on existing infrastructure [2015-12 vision](#)
carbon pools, stocks and turnover rates, Tumbarumba Wet Eucalypt site [2014-11 forestry](#)
co-establishes Great Western Woodlands SuperSite study centre [2013-10 western](#)
co-hosts guided tour of Tumbarumba SuperSite [2019-12 Snowy](#)
CosmOz soil moisture network [2013-08 cosmic](#), [2013-09 flux](#), [2017-08 Earth](#), [2020-02 cosmic](#), [2020-06 soil](#), [2023-12 TERN](#)
creative hackathon solutions demonstrate value of NCRIS and CSIRO data [2016-03 hackathon](#)
cyclones and carbon emissions, northern savannas [2014-01 connecting](#)
developing Australia's first Monitoring, Evaluation and Research network to understand the effectiveness of ecological management activities [2021-10 reviewing](#)
develops SoilMapp for iPad [2013-04 soil](#)
eMAST collaboration [2012-12 predicting](#)
establishes North Australian Tropical Transect (NATT) [2014-03 northern](#)
extreme drought and forest mortality [2013-05 extreme](#)
fire management in Great Western Woodlands [2014-01 Ngadju](#)
flood visualisation tool [2013-09 visualising](#), [2014-01 improving](#)
food quality mapping for koalas [2014-05 gourmet](#)
global proliferation of roads on predator species' activity and hydrology [2019-02 Raiter](#)
ground cover monitoring products [2018-12 dust](#)
ground cover monitoring project [2014-07 Rickards](#)
ground sensing grassland curing trials [2015-01 green](#)
impact of cattle grazing on ants in tropical savannas [2015-09 living](#)
installs Copernicus GBOV radiometers at Tumbarumba SuperSite [2019-08 Copernicus](#)
installs plant fluorescence sensors at Tumbarumba SuperSite [2020-01 prototype](#)
joint management of TERN's Rushworth Forest CalVal site [2020-02 ghost](#)
laser-scanning system [2013-08 TERN](#)
leads Northern Australian hub of NERP [2014-03 helping](#)
leads SEQuITOR project [2014-05 collaborating](#)
leads Soil and Landscape Grid of Australia [2011-11 world](#)
long-term data sets, Australian tropical rainforest plot network [2022-05 climate](#)
long-term monitoring plots, alpine ecosystems [2012-08 sustaining](#), [2013-07 tall](#)
manages Logan and Albert River catchment nodes of SEQ Peri-urban SuperSite [2011-12 SuperSite](#)
mangrove monitoring system [2018-06 mangrove](#)
monitoring diversity across three unique ecosystems, WA [2020-10 monitoring](#)
Mulligan's Flat–Goorooyarroo Woodland Experiment, ACT [2014-02 betting](#)
near-surface air temperature (Tair), comparison of TERN Ozflux/CosmOz data with

BARRA data [2024-11 spotlight](#)
with new collaborations with NCRIS [2015-12 vision](#)
on the importance of TERN [2017-05 data](#)
overseas researchers accessing Tumberumba OzFlux data [2016-03 flux](#)
OzFlux coordinator [2013-12 several](#)
rangelands pasture productivity field data survey [2018-12 rangelands](#)
research at Warra Tall Eucalypt SuperSite [2015-02 lasers](#)
researcher leads Earth Systems Hub of NERP [2015-01 critical](#), [2016-06 flux](#)
safeguarding national research infrastructure from extreme events [2020-01 safeguarding](#)
Semantic Web integrating plot-based ecological data [2019-09 integrating](#)
[Sentinel fire mapping 2014-01 watchful](#)
share in new observation satellite called NovaSAR-1 [2021-07 all-weather](#)
shrub biomass analysis, bluebush, drought and control plots [2018-10 drought](#)
Soil and Landscape Grid collaborator [2013-12 TERN](#), [2014-03 improving](#), [2014-11 National](#)
soil-carbon map [2012-07 evolution](#)
space-time mapping of Soil Organic Carbon (SOC) [2024-11 spotlight](#)
SPEDDEXES collaborative development [2014-08 SPEDDEXES](#)
surface spectral reflectance data [2019-04 Mitchell](#)
Yield Prophet decision support tool collaboration [2019-09 big data](#)
CSIRO Agriculture and Food unit [2017-04 soil](#)
CSIRO Continental Biogeochemical Cycle team [2013-01 accurate](#)
CSIRO Earth Science and Resource Engineering [2012-12 treasure](#)
CSIRO Ecosystem Sciences [2013-05 extreme](#)
jointly manages FNQ Rainforest SuperSite [2011-12 SuperSite](#)
jointly manages Great Western Woodlands SuperSite [2011-11 woodlands](#), [2011-12 SuperSite](#)
CSIRO Land and Water [2011-10 ACEAS](#), [2011-12 data](#), [2012-03 break](#), [2012-06 benefits](#),
[2012-07 working](#), [2013-08 cosmic](#), [2013-09 flux](#), [2017-03 conserving](#), [2017-05 sound](#),
[2021-08 actual](#)
CSIRO Marine and Atmospheric Research [2012-02 cross-Tasman](#), [2012-03 break](#), [2012-07 working](#), [2012-12 predicting](#), [2013-02 carbon](#)
CSIRO Marine and Coastal Carbon Biogeochemistry Flagship Collaboration Cluster [2012-07 study](#)
CSIRO National Soil Archive [2012-10 app](#), [2013-07 AusPlots](#), [2014-03 survey](#)
CSIRO Oceans and Atmospheres [2016-10 Haverd](#)
CSIRO Office of Space Science and Applications (COSSA) [2012-12 treasure](#)
CSIRO Plant Industry [2011-09 despotic](#), [2013-05 collaborative](#)
CSIRO Soil and Landscapes [2016-11 Buettel](#), [2017-04 soil](#)
CSIRO Tropical Ecosystems Research Centre [2012-09 infrastructure](#)
CSIRO's Agricultural Production Systems Simulator (APSIM) [2019-09 big data](#)
CSIRO's Waite based Agriculture and Food Business Unit [2017-09 sample](#)
cultural health datasets [2021-08 quantify](#)
cultural heritage, capture and preservation of [2011-12 wild](#)
cultural intelligence (CQ) [2023-06 update](#)
Culvenor, Darius [2015-01 green](#)
Cumberland Plain SuperSite, NSW [2015-12 Maes](#)
camera traps [2017-09 camera](#)
DroughtNet plots [2017-01 global](#), [2018-10 drought](#)
EucFACE facility experiment [2012-07 experiment](#), [2012-12 engaging](#), [2013-01 EucFACE](#)

Melaleuca trees carbon sequestration [2019-10 heat](#)
plant functional traits [2018-09 data](#)
predicting and regulating soil carbon in a warmer world [2021-04 predicting](#)
tea bag monitoring [2016-11 tea](#)
tracking impact of urban development on critically endangered woodland ecosystem [2020-02 liveability](#)
Wood Block Decomposition 12 Month Mass Loss Assessment [2019-04 TERN data](#)
Cureton, Geoff [2012-03 workshops](#)
Curtin University
appoints first Indigenous Chair for Biodiversity and Environmental Science [2020-07 update](#)
AusCover facility [2013-07 agriculture](#)
Remote Sensing and Satellite Research Group (RSSRG) [2012-12 treasure](#)
researchers [2011-11 hyperspectral](#), [2011-12 data](#), [2020-07 honey](#), [2021-11 next-gen](#)
cyanobacterial crusts, mapping app, for soil management [2015-06 cyanobacteria](#)
cyclones
and carbon emissions, northern savannas [2014-01 connecting](#), [2014-03 cyclones](#), [2015-04 capabilities](#)
ecosystem science improves resilience in the Wet Tropics [2014-01 science](#), [2015-04 capabilities](#)
impact on coastal communities [2014-01 improving](#)
impact on rainforest dynamics [2014-03 long-term](#)
impacts on carbon dynamics in tropical savanna ecosystems [2020-01 safeguarding](#)
protecting national research infrastructure from [2020-01 safeguarding](#)

Dahan, Ofer [2023-04 real](#)
Daintree Discovery Centre [2017-09 camera](#)
sensors installed on trees and in soil pits to collect data on sap flux and soil water potential at Cow Bay site [2022-03 novel](#)
Daintree Rainforest Observatory (SuperSite) [2014-03 hives](#), [2019-03 Asia](#)
Drought Experiment [2014-01 Daintree](#), [2014-03 hives](#), [2017-02 raincoat](#), [2017-12 raincoat](#), [2019-09 Centre](#)
leaf level physiology, chemistry and structural traits [2018-09 data](#)
partnership with Conservation Volunteers Australia, for ecosystem monitoring [2012-08 tourists](#)
photosphere [2014-10 armchair](#)
Sentinel Phenocam 24 hour time-lapse images of vegetation [2017-03 raspberry](#)
students hosted at [2013-04 learners](#), [2013-11 future](#), [2014-09 nation-wide](#),
Wood Block Decomposition 12 Month Mass Loss Assessment [2019-04 TERN data](#)
dairy industry, flux towers role in monitoring, Canterbury Plains region, NZ [2020-11 Ashley](#)
dairy pastures
carbon and greenhouse-gas budgets, NZ [2019-11 Manaaki](#)
carbon budgets, NZ [2014-11 Hunt](#)
Daly River catchment, NT, management [2014-03 integrated](#)
Daly River Uncleared OzFlux tower site, NT
acidic groundwater and carbon leaching from terrestrial ecosystems [2014-03 plumbing](#),
[2015-05 plumbing](#)
Damanik, Zafruallah [2019-10 counting](#)
Dargo High Plains [2018-11 weed](#)
Darwin Centre for Bushfire Research [2017-02 Edwards](#), [2017-07 Kakadu](#), [2017-08 Kakadu](#)

data accessed by overseas researchers [2016-03 flux](#)
data and modelling capability *see* TERN Data Discovery Portal
Data Assimilation Research Testbed (DART) [2014-04 sky](#), [2014-07 Hoar](#)
Data Citation Index [2012-10 enabling](#)
data collection
 custom-built data apps, TERN pest species monitoring protocols [2022-07 pest](#)
 ecologists and archaeologists' perspectives [2011-12 wild](#)
 to publication: infrastructure for ecological monitoring and decision making [2016-03 collection](#)
data-driven art, *Ghost Trees* (mixed media/3D art installations) [2020-02 ghost](#), [2023-01 experience](#)
Data driven decisions [2017-05 data](#)
Data from the treasure trove of ecology soon at your fingertips [2012-10 data](#)
data infrastructure [2012-10 TERN](#), [2013-02 access](#), [2013-06 data](#), [2014-06 road](#)
Data in demand: Australian flux data downloads surge thanks to new global open-access [2016-03 flux](#)
Data Licensing Policy (TERN) [2012-10 licensing](#), [2012-10 TERN](#)
Data partnerships bode well for sharing government ecological datasets [2012-10 partnerships](#)
Data portal leads with 'smart' search and display [2011-10 data](#)
data publishing
 continuum [2013-03 where](#), [2013-06 data](#), [2017-07 responsible](#)
 data access, data quality and data sharing [2013-02 carbon](#)
 removing the barriers [2013-01 acorn](#), [2013-02 challenge](#), [2013-06 data](#)
 through TERN [2013-06 ecosystem](#), [2020-11 publish](#), [2021-07 Nature](#)
 see also SHaRED data submission tool
Data scientist creates Earth monitoring app for citizen scientists [2024-01 data](#)
Data users run through the paces of remote-sensing tools [2011-12 data](#)
DataCite [2012-10 enabling](#), [2013-06 data](#)
DataONE, USA [2016-11 NASA](#)
 data products and components [2012-05 today](#)
 OneSearch accessible via ÆKOS [2016-03 collection](#)
 TERN datasets accessible via DataONE's *OneMercury* [2015-06 DataONE](#)
 TERN Eco-Informatics shares ideas at DataONE Users' Group meeting, University of Wisconsin-Madison [2012-08 eco-informatics](#)
 TERN as first Australian DataONE node [2015-06 DataONE](#)
datasets
 AusPlots Rangelands Survey Program [2013-06 ecosystem](#), [2015-03 phenology](#)
 Australian SuperSite Network [2013-06 ecosystem](#)
 CORVEG Queensland database [2017-06 map](#)
 encouraging citation, through TERN's DOI-minting service [2012-10 enabling](#)
 leaf trait data from South Australia's Mt Lofty Ranges [2018-09 data](#)
 plant functional trait and physiology data from seven TERN SuperSites [2018-09 data](#)
 plot-based flora surveys [2013-06 ecosystem](#)
 pollen count data [2014-05 ensuring](#)
 south-east Queensland coastal data [2014-10 photos](#), [2014-05 collaborating](#)
 TERN DOI-minting service assigning unique DOI's to [2012-10 enabling](#)
 wood block decomposition 12 month loss assessment [2019-04 TERN data](#)
Davies, Janet [2013-03 greater](#), [2013-11 students](#), [2014-05 ensuring](#), [2016-12 relief](#), [2019-10 pollen](#)
 allergy pollen monitoring and mapping [2015-06 Davies](#)

Davis, Jenny [2013-09 pressures](#), [2019-10 RIEL](#), [2021-08 update](#), [2021-10 update](#)
De Kauwe, Martin [2019-04 sweat](#)
de Salas, Miguel [2020-04 grass](#)
de Wit, Ronald [2014-08 SPEDEXES](#)
Deakin, Janine [2020-05 Canberra](#)
Deakin University, Centre for Integrative Ecology [2020-04 Deakin](#)
A decade of TERN facilitated publications catalogued [2019-03 publications](#)
Decades of data sustaining the Australian Alps [2017-06 decades](#)
Decker, Wayne [2022-05 update](#)
decomposition data
 tea bag index [2016-11 tea](#)
 wood block decomposition 12 month mass loss assessment [2019-04 TERN data](#)
Del Toro, Israel [2012-09 infrastructure](#)
Delivering data to improve reporting on Australia's environment [2021-11 delivering](#)
Delivering for Australia's future [2013-10 delivering](#)
Deloitte Access Economics, cost-benefit of documenting Australia's biodiversity [2021-06 cost-benefit](#)
Delphi expert elicitation procedure, koala populations, NSW and Qld [2012-09 analysis](#)
Department of Agriculture, Fisheries and Forestry (DAFF) [2012-06 assessing](#), [2012-07 evolution](#)
Department of Agriculture, Water and Environment (DAWE)
 aggregating and harmonising national fuel load data essential for modelling and prediction of bushfire behaviour [2021-07 helping](#)
 Biodiversity Data Repository [2022-03 TERN](#)
 financial support for Threatened Species Index (TSX) project [2021-07 threatened](#)
 developing Australia's first Monitoring, Evaluation and Research network to understand the effectiveness of ecological management activities [2021-10 reviewing](#)
 draft scoping document for 2021 standardised environmental monitoring and data systems for improved decision-making [2021-03 standards](#)
 Soil Moisture Integration and Prediction System (SMIPS) collaborator [2021-10 getting](#)
 State of Environment (SOE) chapters [2020-11 update](#)
Department of Climate Change and Energy Efficiency (DCCEE) [2012-07 evolution](#), [2012-12 ACEAS](#), [2012-12 Indigenous](#)
Department of Defence [2014-01 watchful](#)
Department of Environment and Energy (DoEE) [2017-05 data](#), [2017-07 responsible](#), [2018-03 map](#), [2018-08 greenhouse](#), [2019-04 shaping](#), [2019-12 Snowy](#)
 FullCAM (Full Carbon Accounting Model) [2018-08 greenhouse](#)
Department of Science, Information Technology, Innovation and the Arts (DSITIA) [2014-05 collaborating](#)
Department of Sustainability, Environment, Water, Population and Communities (DSEWPaC) [2012-02 decisions](#), [2012-06 new](#), [2012-12 ACEAS](#), [2013-03 greater](#)
Department of the Environment [2015-06 condition](#)
Derrick, Ben, uses TERN research to balance the needs of business, safety and the environment, Falls Creek Alpine Resort [2013-07 tall](#), [2014-07 Derrick](#)
desert dwelling birds, impact of heatwaves on [2020-01 heatwaves](#)
Desert Ecology Plot Network [2012-12 engaging](#), [2014-01 erratic](#), [2014-05 sample](#), [2014-09 ESA14](#), [2016-03 desert](#), [2017-01 global](#)
 boom-and-bust nature, long-haired rat, Simpson Desert [2012-09 boom](#)
 diversity of interactions between flowering plants and insects [2012-09 boom](#)
 tea bag monitoring [2016-11 tea](#)

value of research [2013-11 plot](#)
volunteer involvement [2013-11 plot](#)
Desert Ecology Research Group (DERG) (University of Sydney) [2016-03 desert](#), [2016-11 tea](#), [2017-01 global](#), [2018-07 Tanami](#), [2018-09 incomplete](#), [2020-09 changing](#)
Deserved recognition for TERN-supported ecoscience education program [2019-06 recognition](#)
Desmanthus, benefits as tropical pasture legume, for reducing methane production in cattle [2022-07 flux](#)
Despotic species, catchment groups and genetics: all in a day's funding [2011-09 despotic](#)
D'Estrees Entomology & Science Services [2020-09 Kangaroo](#)
Detecting forest structure from space [2012-07 detecting](#)
Detecting landscape change with drones [2016-10 drones](#)
Devaraju, Anusuriya [2021-05 international](#)
Developing data-management practices for the future [2013-04 developing](#)
DEWL scanner [2015-02 lasers](#)
Dhillon, Vikram, family members suffering from allergic respiratory disease triggered by airborne pollen [2015-02 Dhillon](#), [2015-06 Davies](#)
Dickman, Chris [2011-12 wild](#), [2012-09 boom](#), [2013-02 TERN](#), [2013-11 plot](#), [2014-01 erratic](#), [2016-03 desert](#), [2018-07 Tanami](#), [2022-12 night](#)
Dickson, Fiona [2018-12 long-term](#), [2019-04 shaping](#)
digital desktop innovations, to monitor and deliver open data on changes in the environment [2020-07 collect](#)
Digital Earth Australia (DEA) [2019-04 Mitchell](#), [2019-08 mangrove](#), [2021-02 Earth](#)
Open Data Cube (ODC) [2018-06 mangrove](#)
Surface Reflectance validation [2021-07 Mitchell](#)
tests TERN's Robson Creek Rainforest SuperSite as a UAV validation site [2022-12 Digital](#)
Digital Environmental Assessment Program (DEAP) Biodiversity Data Repository Project, data management and exchange standards [2021-03 standards](#)
Digital Object Identifiers (DOI) [2012-10 enabling](#), [2012-10 TERN](#), [2013-06 data](#), [2013-06 ecosystem](#), [2014-08 facilitating](#)
Digital soil assessment: an essential component of a national ecosystem observatory [2020-09 digital](#)
digital soil mapping and assessment (DSMA)
improving impact tracking from [2020-09 digital](#)
as key source of new soil and land information [2020-09 digital](#)
digital soil maps
lithium, Australia [2023-09 predicting](#)
university student use for staycation field trips [2021-09 TERN](#)
dingoes
control of feral cats and red foxes, in rangeland grazing operations [2013-02 TERN](#), [2013-11 plot](#), [2014-11 mice](#)
predation activity along roads [2019-02 Raiter](#)
Direct Action needs TERN collaboration [2014-04 Direct](#)
Director's update *see* Morris, Beryl
Discovering Australia's ecosystem data made easier: TERN Data Discovery Portal updated [2016-06 discovering](#)
DIVERSITAS [2013-09 beer](#)
Dixon, Jonathon [2018-07 Tanami](#)
Dixon, Kingsley [2020-07 honey](#)
Dixon, Madeleine [2018-07 Tanami](#)

Djoongari (Shark Bay mouse) (*Pseudomys fieldi*), translocation to Doole Island, WA [2021-09 Centre](#)

DNA barcoding, applications [2012-02 creatures](#)

Do trees sweat to beat the heat? [2019-04 sweat](#)

Do you use or want Leaf Area Index data? Please let us know [2030-03 leaf](#)

Dodonaea viscosa, genetic adaptation of subspecies [2014-05 sample](#)

Dodonaea viscosa subsp. *angustissima*

adaptation to changing climate [2018-07 climate](#)

leaf trait associations [2018-09 data](#)

Doe, Leighton [2019-07 observatory](#)

dogs, admission to vets, and heatwaves [2019-01 virtual](#)

Doherty, Peter [2012-08 NCRIS](#), [2013-06 soils](#)

DOI-minting service [2012-10 enabling](#), [2013-06 ecosystem](#)

Donegan, Dan [2022-08 update](#)

Dong, Ning [2014-05 sample](#), [2017-09 sample](#), [2020-08 Aussie](#)

donkey orchid (*Diuris orientis*), flowering time shift and climate change [2012-09 plants](#)

Donohoe, Peter [2018-07 Tanami](#)

Doolette, Ashleigh [2019-04 shaping](#)

phosphorus-efficient native species [2018-05 Doolette](#)

Driessen, Mike [2011-12 SuperSite](#)

Driscoll, Don [2020-04 Deakin](#)

Drone cloud: establishing a national ecosystem for drone data management [2020-05 drone](#)
drones

and lasers create virtual forests at TERN sites [2018-11 forests](#)

detecting landscape change [2016-10 drones](#)

establishing a national ecosystem for drone data management [2020-05 drone](#)

for below canopy laser scanning of forests [2020-08 training](#)

for ecosystem monitoring, University of Tasmania survey [2019-10 drones](#)

forest imagery, Warra Tall Eucalypt SuperSite [2015-02 lasers](#)

GeoNadir-TERN collaboration makes drone mapping data publicly accessible [2024-02 national](#)

managing and analysing drone data in the cloud [2020-05 drone](#)

remote sensing use, for ecosystem mapping [2024-09 ecosystem](#)

TERN providing research and data infrastructure and collaborative networks to support

UAS-based environmental research and management [2017-06 pictures](#)

water-use efficiency (WUE) measurement of single plants and entire ecosystems [2015-12](#)

[Maes](#)

drought

and severe tree-death, northern jarrah forests, south-west WA [2013-07 agriculture](#)

and water conservation [2021-11 ANU](#)

continental-scale assessment of forest vulnerability [2021-05 living](#)

Drought ends great green boom and Australia's carbon budget shifts [2016-12 drought](#)

ecosystem response to [2018-10 drought](#), [2020-01 safeguarding](#)

experiment, Daintree Rainforest SuperSite [2014-01 Daintree](#), [2014-03 hives](#), [2017-02](#)

[raincoat](#), [2017-12 raincoat](#), [2019-09 Centre](#)

global ecosystem resilience to [2013-08 ecosystem](#), [2014-01 ecosystem](#), [2015-04](#)

[capabilities](#)

investigating global drought, Battelle's AccelNet Drought Project [2024-07 network](#)

monitoring, using satellite soil moisture products [2020-02 Centre](#)

simulating, Daintree rainforest [2017-02 raincoat](#), [2017-12 raincoat](#), [2019-09 Centre](#)

temperatures and death in forests during extreme droughts [2013-05 extreme](#)
TERN webinar, November 2024 [2024-11 update](#)
Drought-Net Research Coordination Network (Drought-Net) [2016-11 tea](#), [2017-01 global](#),
[2017-11 Peters](#), [2019-07 Hawkesbury](#)
terrestrial ecosystem sensitivity to drought [2018-10 drought](#)
drought sensitivity, global efforts to understand [2017-01 global](#)
Drought's impact on the environment [2018-10 drought](#)
Drug discovery from TERN soil samples [2019-11 drug](#)
Dry, drier ...: repeat environmental surveys deliver detailed drought data [2018-10 surveys](#)
dryland cropping, improvement in 2022 [2023-03 environment](#)
dryland ecosystems
global analysis of distribution of forests and woodlands, using TERN data [2017-05 forests](#)
global map [2016-06 FAO](#)
DISCOVER EPIC satellite, vegetation clumping estimation from space [2021-06 international](#)
Duffy, Kathryn [2021-03 ecosystem](#)
dunnarts
Kangaroo Island, ecosystem requirements [2020-09 Kangaroo](#)
lesser hairy-footed, interaction with wolf spiders, camera trap studies [2022-12 night](#)
dust storm
forecasting [2014-01 windy](#), [2018-12 dust](#)
risk of [2015-04 capabilities](#)
see also Community DustWatch program
Duurma, Daisy [2014-08 SPEDEXES](#)
Duvert, Clément [2023-11 Chicago](#)
DWEL 'echidna' terrestrial laser scanner [2014-10 echidna](#), [2014-11 early](#), [2015-02 lasers](#)
dynamic data products (TERN) [2020-08 update](#), [2020-09 update](#)

e-research prize [2011-12 e-research](#)
Eamus, Derek [2016-09 NSW](#)
Early and accurate prediction of grape yields [2014-11 early](#)
Earth as an integrated system: don't forget the groundwater [2017-08 Earth](#)
Earth laid bare [2021-02 Earth](#)
Earth Observation activities [2019-06 Remote](#)
Earth Observation data
integration into environmental models [2019-12 systems](#)
NovaSAR-1 data of benefit to NRM, agriculture, mining, construction and severe weather
management [2021-07 all-weather](#)
On-ground validation, Mitchell Grass Rangeland SuperSite [2021-07 Mitchell](#)
TERN coordination and delivering of EO data in Australia [2017-04 London](#)
Earth Observation Laboratory [2018-08 global](#)
Earth Observation products, TERN SuperSites suitable for validation of [2021-06](#)
[international](#)
Earth science community, Integrated Earth 2023 conference, Canberra [2023-11 Integrated](#)
Earth System Models [2017-09 universal](#)
Earth Systems Hub (NESP) [2015-01 critical](#), [2016-06 flux](#)
EarthTrack app, for citizen scientists to collect land cover and land cover change data [2024-](#)
[01 data](#)
Earthwatch Institute [2017-01 books](#)
collaboration with National Australia Bank at Calperum Mallee SuperSite [2015-09 NAB](#)
Student Challenge program [2017-01 books](#)

volunteering opportunities [2014-09 nation-wide](#)
eastern bettong (*Bettongia gaimardi*), re-introduction, Mulligan's Flat–Goorooyarroo
Woodland Experiment, ACT [2014-02 betting](#)
eastern bristlebird (*Dasyornis brachypterus*) [2013-11 plot](#), [2016-09 Booderee](#)
eastern osprey (*Pandion cristatus*) [2017-11 raptors](#)
An echidna from Boston [2014-10 echidna](#)
Eclipsed and confused, dawn choristers to be taped for the record [2012-10 eclipsed](#)
ecoacoustics, *Ghost Trees* art installations [2020-02 ghost](#), [2023-01 experience](#)
EcoAssets project
data sets currently available [2022-08 streamlined](#)
integrated data assets for national State of the Environment reporting [2021-11 delivering](#)
streamlining of access to environmental data from the holdings of TERN, ALA and IMOS
[2022-08 streamlined](#)
EcoCloud: one of three new Australian Science Clouds [2017-08 EcoCloud](#)
ecocloud platform [2019-01 virtual](#), [2020-05 teaching](#)
components [2018-10 ecocloud](#)
here to help [2018-10 ecocloud](#), [2019-04 ecocloud](#)
ecoEd Champions [2017-06 ecoEd](#), [2019-01 ecoEd](#), [2019-02 R package](#)
ecoEd training
digital platforms for environmental science [2019-01 ecoEd](#)
downloadable materials [2019-01 ecoEd](#)
for first-rate science education [2017-06 ecoEd](#)
recognised by Council of Australasian University Directors of Information Technology
(CAUDIT) [2019-06 recognition](#)
eco-evolutionary dynamics, Aussie plants used to study [2020-08 Aussie](#)
Eco-informatics [2012-04 focus](#), [2012-12 accessing](#), [2013-11 strategic](#), [2014-03 ecological](#),
[2014-06 road](#)
adds taxonomy search capability to ÆKOS portal [2012-10 ÆKOS](#)
ÆKOS *see* ÆKOS (Australian Ecological Knowledge and Observation System) data portal
Data Custodians Reference Group (DCRG) [2012-10 licensing](#), [2013-07 eco-informatics](#)
Data Providers Reference Group [2011-08 bringing](#)
develops ShaRED [2013-07 eco-informatics](#)
develops Soils to Satellites (S2S) [2013-06 soils](#), [2013-07 eco-informatics](#)
difficulties of forming data partnerships [2012-10 partnerships](#)
extracts government environmental metadata from ÆKOS data repository [2011-09](#)
[government](#)
facility objectives [2011-08 bringing](#)
negotiates Creative Commons ShareAlike 3.0 Australia licence with ABARES [2012-10](#)
[licensing](#)
negotiates five Creative Commons Attribution 3.0 Australia licences with Australian states
and CSIRO [2012-10 licensing](#)
products [2012-12 accessing](#)
receives funding to develop Submission, Harmonisation and Retrieval of Ecological Data
(SHaRED) Tool [2012-06 share](#)
sharing ideas with US data giant [2012-08 eco-informatics](#)
sharing of government ecological datasets [2012-10 partnerships](#)
spiral model used to develop ÆKOS [2013-01 beta](#)
ecological data
automatically recorded wildlife camera trap, ecoacoustic and drone data collation [2024-07](#)
[wildlife](#)

available via ÆKOS data portal [2012-10 data](#)
from TERN to answer key ecological questions [2024-10 how](#)
sharing through Eco-informatics facility [2012-10 partnerships](#)
Ecological Forecasting Initiative, Oceania chapter [2023-01 Oceania](#)
ecological knowledge ecology, political and scientific challenges and hope [2012-04 best](#)
ecological management, reviewing effectiveness, NRM projects [2021-10 reviewing](#)
Ecological Society of Australia [2014-04 sky](#), [2014-05 future](#), [2014-07 foundations](#)
EcoTas 2013 conference, Auckland, NZ [2013-12 call](#), [2013-12 collaborative](#)
ESA14 conference, Alice Springs, September-October 2014 [2014-12 practical](#)
ESA18 conference, Brisbane, November 2018 [2018-11 ESA18](#), [2018-12 long-term](#)
ESA 2021 'Renewal' (online) [2021-10 catch](#)
ESA 2023, Darwin [2023-06 exciting](#)
ESAus19 conference, Launceston, November 2019 [2019-11 ESAus19](#)
ESAus20 conference, virtual conference, Nov-Dec 2020 [2020-11 ESAus20](#)
long-term ecological research in Australia, ecologists' views, survey results [2021-07 long-term](#)
meeting, Melbourne, December 2012 [2012-12 engaging](#)
plenary speaker at TERN Symposium 2013 [2013-01 your](#), [2013-02 access](#)
'Talks on the Wildside' workshop, at ESA Hobart [2011-10 cultural](#), [2011-12 wild](#)
TERN active in ESA's first symposium on open data in ecology [2016-03 open data](#)
Ecological Society of Korea, TERN hosts researchers from [2022-08 update](#)
ecological survey data exchange standard, TERN develops [2022-03 TERN](#)
Ecologically appropriate and economically viable: how long-term research is transforming
fire management in the Top End [2015-04 ecologically](#)
Ecology's latest recruits: mobile citizens and their mobile phones [2012-10 ecology](#)
economic modelling, interactive game use, value of ecosystem services [2013-12 fun](#)
EcoScience Pathways Forum – Melbourne 17 Aug 2018 [2018-08 Ecoscience](#)
Ecoscope [2012-05 business](#)
ECOSTRESS (Ecosystem Spaceborne Thermal Radiometer Experiment on Space Station)
mission, NASA uses TERN data in [2016-11 NASA](#), [2018-06 space](#), [2018-07 TERN](#), [2021-07 satellite](#)
ecosystem carbon uptake and emissions, and variation in vegetation structure [2021-09 control](#)
ecosystem change, bioacoustic data use [2017-05 sound](#)
ecosystem-climate modelling, based on novel forest research [2022-03 novel](#)
ecosystem condition monitoring protocols [2015-06 condition](#)
Ecosystem data for the nation: TERN's achievements 2009-2014 [2015-12 vision](#)
Ecosystem data publishing through TERN [2013-06 ecosystem](#)
ecosystem dynamics over the long term, Mallee Plot Network, south-west NSW [2012-09 understanding](#)
ecosystem flux monitoring infrastructure *see* FluxNet; OzFlux network
ecosystem function, key factors that determine [2021-09 control](#)
ecosystem images, data management for [2020-11 ESAus20](#)
ecosystem mapping, drone remote sensing use [2024-09 ecosystem](#)
ecosystem maps
Australia [2018-03 map](#)
building, using TERN AusCover Geo-Wiki tool [2016-06 budding](#)
global standards [2018-03 map](#)
National Biomass Map and National Biomass Library, woody vegetation [2016-03 satellite](#)
Queensland [2017-06 map](#)
Ecosystem Modelling and Scaling Infrastructure Facility *see* eMAST

ecosystem monitoring

Machine Observation Data Processing Infrastructure workshop, challenge of data collation [2024-07 wildlife](#)

multi-scaled approach [2020-07 effective](#)

NovaSAR-1 adds data layer to TERN's data-rich monitoring sites [2021-07 all-weather](#)
understanding key questions [2020-07 effective](#)

using *Collect Earth* land use and vegetation assessment tool [2020-07 collect](#)

using drones: a UTAS survey [2019-10 drones](#)

ecosystem monitoring equipment

survives bushfires [2018-09 sensitive](#)

TERN receives funding to replace equipment damaged by bushfires [2020-08 update](#), [2020-09 update](#)

Ecosystem Observations webinars (TERN Seminar Series) [2020-08 update](#), [2020-10 update](#)

Ecosystem observatory further expands regional coverage [2019-07 observatory](#)

ecosystem processes *see* Australian SuperSite network (ASN); OzFlux network

ecosystem productivity

and stress monitoring infrastructure, installed at WA SuperSites [2020-10 monitoring](#), [2022-12 new](#)

and vegetation structure [2021-09 control](#)

following flooding rains, Alice Mulga SuperSite [2020-09 Alice](#)

ecosystem recovery

following wildfire, Warra Tall Eucalypt Supersite, Tas. [2019-03 learning](#)

post-bushfire surveys, Kangaroo Island [2020-09 Kangaroo](#)

practical solutions to [2020-03 environment](#)

ecosystem research, transdisciplinary, draft NEPS Implementation Plan to inspire [2020-11 investment](#)

Ecosystem resilience to drought across the globe [2013-08 ecosystem](#), [2014-01 ecosystem](#), [2015-04 capabilities](#)

ecosystem respiration, QA/QC, gap-filled datasets [2022-03 flux](#)

ecosystem risk assessments [2016-09 global](#)

Ecosystem Sample Library [2017-09 sample](#)

ecosystem science

ACEAS collaboration with John Parker (Arizona State University) [2012-06 more](#)
and management research cycle, TERN interaction with [2012-10 TERN](#), [2013-06 ecosystem](#)

drone data to aid [2020-05 drone](#)

engaging communities in [2012-05 engaging](#)

future planning *see* *Foundations for the future: a long-term plan for Australian ecosystem science*

global [2015-12 supporting](#)

how much carbon can be stored in the landscape? [2012-07 working](#)

reproducibility [2014-08 facilitating](#)

Ecosystem Science Council [2015-12 vision](#), [2016-03 open data](#), [2018-12 long-term](#)

annual report 2015 [2015-12 Council](#)

creation following recommendations in *Foundations for the future: a long-term plan for Australian ecosystem science* [2014-09 get](#), [2014-12 practical](#)

invites participants to join working groups [2015-12 Council](#)

long-term ecological research in Australia, ecologists' views, survey results [2021-07 long-term](#)

selection of inaugural members [2014-12 Council](#)

welcomed by TERN [2015-04 Council](#)

Ecosystem Science Long Term Plan
challenges and the need for planning (video) [2013-10 delivering](#)
first planning workshop [2013-10 delivering](#), [2013-10 opportunity](#), [2013-10 shaping](#)
future opportunities (video) [2013-10 opportunity](#)
plan development and meetings [2013-12 call](#), [2014-02 come](#), [2014-05 sample](#)
plan development online survey [2013-12 call](#)
see also Foundations for the future: a long-term plan for Australian ecosystem science
ecosystem services
and livelihood opportunities, Indigenous communities, Arafura region [2012-05 new](#)
four categories [2021-08 quantify](#)
improved with improved soil health [2022-08 living](#)
measures and metrics used to track the state, condition and trajectory of our ecosystem
services [2021-08 quantify](#)
valuing through interactive games [2013-12 fun](#)
ecosystem sequestration, feasibility, OzFlux network study findings [2022-05 long-term](#)
ecosystem surveillance [2023-12 TERN](#)
Tasmanian Midlands, re-discovers exotic grass [2020-04 grass](#)
Tasmania's Ben Lomond and Central Highlands bioregions [2020-07 collect](#)
time-lapse images of vegetation, Sentinel Phenocam [2017-03 raspberry](#)
training, Calperum Mallee SuperSite, SA [2019-02 train](#), [2019-06 training](#)
transects [2018-07 climate](#)
see also AusPlots; Australian Transect Network; TERN Ecosystem Surveillance plots/sites
Ecosystem tipping points: carbon sink to source within 30 years [2021-03 ecosystem](#)
Ecosystem water-use strategies, and variation in vegetation height and climate [2021-09](#)
[control](#)
Eddy Covariance Flux Tower [2023-04 what](#)
Edith Cowan University [2017-08 Earth](#), [2020-05 Gingin](#)
Centre for Ecosystem Management [2020-09 Centre](#)
researchers [2022-08 living](#)
Education Investment Fund [2013-06 data](#)
education sector
making STEM more attractive to girls and women [2013-01 acorn](#)
secondary, TERN links with [2020-04 update](#)
and TERN [2014-04 education](#), [2015-09 investment](#)
see also universities
educational resources, Careers grounded in soils (booklet) [2022-12 update](#)
Edwards, Andrew
fire severity mapping, tropical savanna ecosystems [2012-11 mapping](#), [2017-02 Edwards](#)
Edwards, Luke [2011-12 data](#)
Edwards, Will [2020-07 effective](#)
Effective ecosystem monitoring requires a multi-scaled approach [2020-07 effective](#)
Effective Field Calibration and Validation Practices (TERN handbook for calibrating and
validating remote sensing derived products) [2018-08 CalVal](#)
Elledge, Amanda [2021-08 TERN](#)
Ellison, Aaron [2012-09 infrastructure](#)
Ellsworth, David [2012-07 experiment](#), [2012-12 engaging](#), [2012-12 special](#), [2013-01](#)
[EucFACE](#), [2013-02 carbon](#)
eMAST (Ecosystem Modelling and Scaling Infrastructure Facility) [2012-04 focus](#), [2012-10](#)
[TERN](#), [2016-11 NASA](#), [2017-10 facilitating](#)

and SPEDDEXES [2014-08 SPEDDEXES](#)
climate data and fire danger projections [2016-03 fire](#)
cross-Tasman project to create a generic, continent-wide monitoring system for primary
production [2012-02 cross-Tasman](#)
data and ecosystem modelling resources for climate change prediction [2015-04 climate](#)
data sources, functions and collaborative links [2012-12 predicting](#)
European collaboration [2013-09 beer](#)
helps set up NCAR's Data Assimilation Research Testbed (DART) in Australia [2014-07](#)
[Hoar](#)
how much carbon can be stored in the landscape? [2012-07 working](#)
importance of state-of-the art modelling [2012-03 break](#)
modelling savanna change in the Northern Territory [2014-03 modelling](#)
national-scale data assimilation tool [2014-04 sky](#)
pairing weather data to selected grape regions [2014-11 early](#)
partners with NASA to map global carbon [2015-02 NASA](#)
partnership with NEON [2013-08 like](#)
partnerships with Macquarie University, Australian National University and CSIRO [2012-](#)
[03 break](#)
Emissions Reduction Fund [2017-02 Edwards](#)
white paper [2014-04 Direct](#)
Empodisma robustum (jointed wire rush), Kopuatai Bog, NZ [2020-07 Kopuatai](#)
Enabling and encouraging dataset citation: TERN's DOI-minting service [2012-10 enabling](#)
end-to-end data collection and publication infrastructure [2016-03 collection](#)
endangered species translocations, Doole Island, Exmouth Gulf of Western Australia [2021-09](#)
[Centre](#)
endemic ecosystems, world's richest grow on ancient soils [2021-09 Centre](#)
Energy Resources of Australia Ltd [2019-01 mine](#)
Engaging communities in ecosystem science [2012-05 engaging](#)
Engaging with the ecological community [2012-12 engaging](#)
Enhanced Vegetation Index (EVI) [2014-11 satellite](#)
Enhancing long-term surveillance monitoring across Australia (NERP Emerging Priority
project) [2014-08 national](#)
Ens, Emilie [2013-01 age-old](#), [2014-12 ACEAS](#)
on Indigenous biocultural knowledge [2013-01 age-old](#)
ENSO cycles [2015-03 phenology](#)
Ensuring pollen data aren't gone with the wind [2014-05 ensuring](#)
Environment Institute, University of Adelaide, research themes [2022-03 Institute](#)
Environment Institute of Australia and New Zealand (EIANZ), Code of Ethics and
Professional Conduct [2021-02 update](#)
Environment Protection and Biodiversity Conservation Act 1999, planned reforms of [2020-](#)
[08 update](#)
environmental change
and infectious zoonotic diseases [2020-03 update](#)
early detection using phenocams, acoustic monitors and camera traps [2017-09 camera](#)
leaf traits not the ideal biological barometer for plants [2019-06 barometers](#)
Observing Environmental Change in Australia – Conversations for Sustainability [2019-05](#)
[observing](#)
species diversity as predictors of [2020-03 environmental](#)
environmental condition monitoring protocols [2015-06 condition](#)
environmental condition reports, Australia

2016 [2017-03 pulse](#)
2018 [2019-05 environment](#), [2020-02 Centre](#)
2019 [2020-03 environment](#), [2020-03 update](#)
2020 [2020-08 Environment](#), [2021-03 environment](#)
2021 [2022-03 environment](#)
2022 [2023-03 environment](#)
2023 [2024-03 environment](#)

Environmental Condition Scores (ECS)
and environmental indicators [2020-03 environment](#)
by State and Territory 2020 [2021-03 environment](#)
by State and Territory 2021 [2022-03 environment](#)
by State and Territory 2022 [2023-03 environment](#)
by State and Territory 2023 [2024-03 environment](#)

Environmental Data Science Innovation & Inclusion Laboratory's first Innovation Summit,
Boulder, May 2023 [2023-04 update](#)

environmental data visualisation [2020-02 liveability](#), [2021-08 students](#)
environmental DNA (e-DNA) profiling of soils [2021-09 soil](#)
environmental education, high school students, Calperum Mallee SuperSite [2017-01 books](#)

Environmental Features Research Institute (Griffith University)
Food Futures research group [2020-03 environmental](#)
research and activities [2020-03 environmental](#)
Wildlife Disease Ecology Group [2020-03 environmental](#)

environmental impact assessment (EIA)
long-term influence on organisational learning and transformation [2020-09 Centre](#)
next-gen DNA sequencing, plants of Western Australia's Pilbara region [2021-11 next-gen](#)

environmental indicators *see* national environmental indicators
environmental management agencies, and TERN [2015-09 investment](#)
environmental mapping products, TERN-ANU Landscape Data visualiser [2018-12 landscape](#),
[2020-05 teaching](#)

environmental monitoring
and data systems, standardising [2021-03 standards](#)
below ground, extending VMS use, Qld and SA [2024-01 extending](#)
integrated data assets. EcoAssets project [2021-11 delivering](#)
long-term monitoring data used to produce *Australia's Environment* reports [2024-03 environment](#)
using eDNA analysis of soil [2021-09 soil](#)

environmental observation towers, global gas and water exchange [2017-07 breathing](#)

environmental recovery
continued likely in 2021 [2021-03 environment](#)
from a horrendous 2019 [2020-08 Environment](#)
good rainfall and fewer heatwaves led to greener pastures in 2021 [2022-03 environment](#)

environmental research infrastructure
based on data driven decisions [2017-05 data](#)
Canberra symposium celebrating tenth anniversary of Australian NCRIS grants [2017-04 NCRIS](#), [2017-05 data](#)
future impact in Australia [2017-05 data](#)
see also NCRIS (National Collaborative Research Infrastructure Strategy)

Environmental Research Institute of the Supervising Scientist (ERISS) [2019-01 mine](#)
Environmental Resources Information Network (ERIN) [2014-08 national](#), [2018-03 map](#)
Environmental Sensing Systems [2015-01 green](#)

The erratic greening of Australia [2014-01 erratic](#)
Erwin, Tim [2014-08 SPEDEXES](#)
Essential Climate Variables [2019-08 Copernicus](#)
Essential environmental data rise from the ashes [2019-12 essential](#)
essential environmental measures (EEM), and UN Sustainable Development Goals [2017-10 observatory](#)
estuaries, carbon movement in [2012-07 standardising](#)
ETH Zurich [2017-01 angry](#)
eucalypt forests
 comparison to melaleuca forests, carbon accounting [2019-10 heat](#)
 impact of logging practices on amount of carbon and water entering, storing and leaving the forest [2012-08 flux](#)
 long-term effects of fire on carbon stocks and other ecosystem services, Wombat Forest, Vic. [2020-08 Wombat](#)
 long-term monitoring plots, south-west WA [2013-07 agriculture](#)
 measuring climate change in [2013-01 seeing](#)
 response to global change and forestry management [2016-11 Buettel](#)
 species return after harvesting [2013-02 TERN](#)
eucalypt woodlands
 establishment of wildlife corridors and patches of native vegetation, boosts farm productivity [2017-04 farms](#)
 response to increasing atmospheric carbon dioxide [2012-07 experiment](#), [2013-02 carbon](#)
 restoration, Mulligan's Flat–Goorooyarroo Woodland Experiment, ACT [2014-02 betting](#)
 southern Australian threatened woodland recovery plan [2021-09 ecologists](#)
 water stress resistance, tropical savannas [2017-11 Peters](#)
Eucalyptus diversicolor forests, climate change measurements, south-west WA [2013-01 seeing](#)
Eucalyptus microcorys forest, response to carbon concentrations in the atmosphere [2013-02 carbon](#)
Eucalyptus obliqua forests, climate change measurements, Tasmania [2013-01 seeing](#)
Eucalyptus regnans, fire and the evolution of Australian forests [2012-11 fire](#)
EucFACE facility experiment [2012-05 TERN](#), [2012-12 engaging](#)
 at Western Sydney University [2019-07 Hawkesbury](#)
 draws international attention [2013-01 EucFACE](#)
 measuring how eucalypt woodlands might respond to increasing atmospheric carbon dioxide [2012-07 experiment](#), [2013-02 carbon](#)
Eurardy Reserve, WA, added as TERN monitoring site [2017-09 sample](#)
European Commission Marie Skłodowska-Curie Research Fellowship Programme projects [2015-12 Maes](#)
European Ecological Federation (EEF) Conference, 13th, Italy, 2015 [2015-12 supporting](#)
European Geosciences Union, TERN presentations at The General Assembly 2023, Vienna [2023-04 update](#)
European Space Agency [2019-12 Snowy](#), [2020-01 prototype](#)
 GlobBiomass project [2016-03 satellite](#)
 Soil Moisture Ocean Salinity (SMOS) Earth Explorer mission [2020-02 cosmic](#)
Evans, Ben [2012-03 break](#), [2012-07 working](#), [2014-08 SPEDEXES](#)
Evans, Brad [2013-07 agriculture](#), [2013-09 beer](#), [2013-11 universities](#), [2013-12 scaling](#), [2014-01 connecting](#), [2014-03 modelling](#), [2014-04 sky](#), [2014-07 Hoar](#), [2015-02 NASA](#), [2015-03 phenology](#), [2015-04 climate](#), [2016-03 fire](#), [2016-09 NSW](#), [2019-11 biodiversity](#)
Evans, Jay [2017-07 Kakadu](#), [2017-08 Kakadu](#)

Evans, Richard [2011-12 data](#)

evapotranspiration

post-fire increase, tall forest ecosystems [2023-12 bushfire](#)

see also Actual evapotranspiration

Evolution of Australia's soil-carbon map [2012-07 evolution](#)

evolutionary relationships of *Xerochrysum*, *Coronidium* and *Helichrysum leucopsideum*

[2023-01 fresh](#)

Exciting updates for the Ecological Society of Australia (ESA) conference in Darwin – July

2023 [2023-06 exciting](#)

Experience and science: a winning combo in arid-lands monitoring [2014-02 experience](#)

Experience the wonders of data-driven art: *Ghost Trees* [2023-01 experience](#)

Experiment will show how forest responds to more carbon dioxide [2012-07 experiment](#)

Exploring interdisciplinary collaboration [2011-11 exploring](#)

Extending TERN environmental monitoring below ground [2024-01 extending](#)

Extinct grass re-found [2020-04 grass](#)

extreme events

extreme droughts, temperatures and death in forests [2013-05 extreme](#)

extreme rain not a dampener for new flux tower [2013-05 rain](#)

impact on Australian ecosystems [2014-01 hot](#), [2015-04 capabilities](#), [2017-01 angry](#)

impact on national research infrastructure [2020-01 safeguarding](#)

improving understanding of extreme coastal events [2014-01 improving](#), [2015-04 capabilities](#)

role of forests and wetlands in diminishing extreme event impacts [2021-01 forests](#)

science of extreme events, TERN public briefing, Canberra [2014-01 improving](#)

TERN's capabilities to increase understanding and reduce impact of [2015-04 capabilities](#)

webinar [2021-12 looking](#)

see also cyclones; floods; heatwaves

Eyre, Teresa [2023-02 TERN](#)

Facelli, José M [2015-09 track](#)

Facilitating real research impact: TERN supports prestigious ARC Centres of Excellence

[2017-10 facilitating](#)

Facilitating reproducibility in ecosystem science analysis [2014-08 facilitating](#)

Falls Creek Alpine Resort, Vic. [2013-07 tall](#), [2014-07 Derrick](#)

Falster, Daniel [2016-03 open data](#)

FAO

collaboration with on ecosystem monitoring since 2016 [2020-07 collect](#)

Global Drylands assessment phase of the Global Forest Survey [2017-05 forests](#)

Global Symposium on Soil Organic Carbon [2017-04 soil](#)

using TERN to complete Oceania component of Global Forest Survey [2016-06 FAO](#)

Farkas, Juraj [2024-01 extending](#)

farm advisers, instant access to localised soil information [2013-04 soil](#)

farm dams, contributing to biodiversity on farms [2020-06 SMART](#)

farm management, aerial imagery use, land-management decisions [2012-08 aerial](#), [2014-11 satellite](#)

farm planning and monitoring, using NRM Spatial Hub data [2016-10 online](#)

farm productivity, boosting through addition of wildlife corridors, eucalypt woodlands [2017-04 farms](#)

farms, business case for trees on farms [2020-08 training](#)

Farrell, Mark [2017-09 sample](#)

Farrington, Rebecca [2019-12 systems](#)
fauna data, Three Parks Savanna Fire-effects Plot Network [2015-06 condition](#)
Fauna Survey Protocols for Australian Rangelands [2015-06 condition](#)
Fearn, Peter [2011-12 data](#), [2020-07 honey](#)
Federation of Global Ecosystem Research Infrastructure capabilities to address Earth's grand challenges [2022-05 federation](#)
feral animals, management, Flinders Ranges [2014-02 experience](#)
feral cats
 management by dingoes, in rangeland grazing operations [2014-11 mice](#)
 predation activity along roads [2019-02 Raiter](#)
 predation and mammal extinctions, northern Australia [2012-09 wave](#)
fertilisation, effect on soil function and carbon sequestration, managed grasslands [2020-09 changing](#)
Fest, Benedikt [2011-12 SuperSite](#)
#FieldWorkFail? Making the most of incomplete long-term datasets [2018-09 incomplete](#)
55 global superstars of space-borne data validation [2018-08 global](#)
Finding the lost forests of the drylands [2017-05 forests](#)
Finding the true holy grail of biological barometers [2019-06 barometers](#)
Finkel, Alan [2021-09 pillars](#)
Finlayson, Graeme [2019-04 shaping](#)
Finlayson, Max [2012-02 decisions](#)
Finn, Luke [2021-10 monitoring](#), [2022-12 treasure](#)
Finnish Environment Institute (SYKE) [2015-02 TERN](#)
fire carbon relationships [2018-09 sensitive](#)
 long-term experiment, Wombat Forest, Vic. [2020-08 Wombat savanna SuperSite](#) [2012-07 savanna](#)
fire characterisation, tropical savannas [2012-11 characterising](#)
fire danger projections [2016-03 fire](#)
Fire danger rating today, tomorrow, in 2030, in 2070? [2016-03 fire](#)
fire ecology, and post-fire recovery [2020-04 Deakin](#)
Fire, giant eucalypts and the evolution of Australian forests [2012-11 fire](#)
fire history, data from over 750 TERN plots [2020-07 collect](#)
fire-information service, Top End, TERN infrastructure use [2014-07 Jacklyn](#)
fire intensity
 and environmental variables, tropical savannas [2012-11 characterising](#)
 and frequency, Australian vegetation types [2012-11 Australian](#)
fire management
 Australia's 'fire countries' [2014-01 managing](#)
 ecologically appropriate, Kakadu National Park [2017-07 Kakadu](#), [2017-08 Kakadu](#)
 ecologically appropriate and economically viable, Top End [2015-04 ecologically](#)
 grassland curing measurements to aid [2015-01 green](#)
 Indigenous know-how on savanna burning to be exported [2012-12 Indigenous](#)
 Indigenous practices, Great Western Woodlands, WA [2014-01 Ngadju](#)
 integrated data for Top End fire risk planning [2018-09 sensitive](#)
 savanna ecosystems [2013-07 NATT](#), [2014-03 cyclones](#), [2015-04 ecologically](#), [2017-07 Kakadu](#), [2017-08 Kakadu](#), [2019-10 RIEL](#)
 TERN at Bushfire16 [2016-06 fire](#)
 TERN infrastructure use, Top End [2014-07 Jacklyn](#)
Three Parks Savanna Fire Effects Plot Network [2014-03 long-term](#), [2015-04 ecologically](#), [2017-07 Kakadu](#), [2017-08 Kakadu](#)

unsustainable, Kakadu National Park [2017-07 Kakadu](#)
fire mapping
Sentinel Hotspot Google Earth KML tool use [2014-01 watchful](#)
South Australia [2017-01 fire](#)
fire patterns determined by tropical summer monsoons, Australia [2012-11 Australian](#)
fire-prone Top End, management [2017-07 Kakadu](#), [2017-08 Kakadu](#)
fire risk assessment, TERN remote-sensing products assisting stakeholders [2012-11 helping](#)
fire risk prevention, CosmOz network data use [2023-12 TERN](#)
fire-scar mapping, Top End [2014-03 cyclones](#), [2014-07 Jacklyn](#)
fire severity mapping
northern Australia [2012-12 building](#)
tropical savanna ecosystems [2012-11 mapping](#), [2017-02 Edwards](#)
fire-spread maps, Litchfield National Park [2013-07 NATT](#)
fires, remote sensing of [2015-04 capabilities](#)
Firn, Jennifer [2019-06 barometers](#)
First meeting of all MSPN facilities [2011-11 first](#)
fish big data, using ecocloud [2019-04 ecocloud](#)
fish deaths, Murray Darling Basin [2020-01 Institute](#)
Fish River Station, NT, savanna-burning project [2012-11 savanna](#)
Fisher, Adrian [2016-10 drones](#)
Fisher, Diana [2012-09 wave](#)
Fisher, Joshua [2016-11 NASA](#), [2018-06 space](#), [2018-07 TERN](#)
Fisk, Claire [2019-08 Spatial](#)
Fitzroy River catchment, WA, management [2014-03 integrated](#)
550 ecosystem surveillance plots and counting [2017-03 ecosystem](#)
flame robin [2016-09 global](#)
Fletcherview Tropical Rangelands SuperSite [2023-06 update](#)
Burdekin region, Qld [2021-03 paddock](#)
flux equipment placed on James Cook University research station site [2020-05 update](#)
joins Critical Zone Observatory network as a satellite site [2021-03 paddock](#)
landscape-scale nutrient and sediment runoff [2021-08 TERN](#)
understanding of ecosystem function [2021-03 paddock](#)
VMS installation [2024-01 extending](#)
Wambiana grazing trial [2021-03 paddock](#), [2021-08 TERN](#)
Flinders & Gilbert Agricultural Resources Study, north Qld [2014-03 improving](#)
Flinders Ranges
Bounceback Program, for feral animal control [2014-02 experience](#)
Southern, as plant biodiversity hotspot [2016-09 biodiversity](#)
spidery wattle (*Acacia araneosa*) [2013-09 surveys](#), [2018-10 surveys](#)
Flinders University [2015-02 lasers](#), [2019-04 shaping](#)
Global Ecology Laboratory [2020-11 Global](#)
National Centre for Groundwater Research and Training [2017-08 Earth](#)
researchers [2011-12 wild](#), [2020-11 Global](#)
Flitton, Rick [2012-06 assessing](#), [2013-07 AusPlots](#), [2015-06 Pilbara](#), [2015-12 catchment](#)
flooding rains, and erratic greening, arid ecosystems [2014-01 erratic](#), [2015-04 capabilities](#)
floods
Moreton Bay, Qld [2014-01 improving](#)
protecting national research infrastructure from [2020-01 safeguarding](#)
real-time rainfall prediction [2020-02 Centre](#)
visualisation tool use, Logan River catchment [2013-09 visualising](#), [2014-01 improving](#),

[2014-05 collaborating](#), [2014-07 Mackenzie](#), [2014-10 photos](#)
flora documentation, Brookfield Conservation Park, SA [2020-10 botanists](#)
Flores-Moreno, Habacuc [2022-07 biomass](#)
Florin, Anna [2021-03 ARC](#)
flower-insect interactions, species diversity, desert ecosystems [2012-09 boom](#)
flowering, adaptive trends to climate change, donkey orchid [2012-09 plants](#)
flowering time patterns, climate effects, plant communities across six biomes [2022-07 research](#)
Fluorescence Auto-Measurement Equipment (FAME) sensors, installed at WA SuperSites [2020-10 monitoring](#)
Flux and supersite networks join forces to measure effects of logging [2012-08 flux](#)
Flux research infrastructure helps industry monitor agricultural soil carbon sequestration [2022-07 flux](#)
flux towers
Eddy Covariance Flux Towers [2023-04 what](#)
help us understand Perth's declining watertables [2013-09 flux](#)
to help inform soil carbon storage [2023-04 what](#)
Wombat Stringybark Eucalypt Flux Tower reopens [2020-08 Wombat](#)
FLUXNET (global flux measuring network) [2012-12 millions](#), [2016-11 NASA](#), [2017-09 universal](#), [2020-06 OzFlux](#), [2022-03 flux](#)
Conference, Berkeley, CA, 2017, TERN presentations [2017-07 breathing](#)
land fluxes of greenhouse gases [2021-10 TERN](#)
significance of TERN's OzFlux data [2019-01 valuable](#)
TERN's OzFlux contributions to [2016-03 flux](#), [2017-07 breathing](#)
flying fox ecology, and Hendra virus [2020-03 environmental](#)
FNQ Rainforest SuperSite [2012-09 many](#), [2014-03 hives](#), [2015-12 Maes](#), [2016-09 possum](#)
acoustic sensors to measure dawn chorus during total eclipse [2012-10 eclipsed](#)
camera traps [2017-09 camera](#)
KEON delegates visit [2014-12 TERN](#)
leaf level physiology, chemistry and structural traits [2018-09 data](#)
photosphere [2014-10 armchair](#)
research and activities [2011-12 SuperSite](#)
students hosted at [2013-04 learners](#), [2013-11 future](#), [2014-09 nation-wide](#)
tea bag monitoring [2016-11 tea](#)
see also Daintree Rainforest Observatory (SuperSite); Robson Creek Rainforest SuperSite
FNQ rainforests, microclimate data collection across five tropical rainforest sites [2023-06 TERN](#)
Foley, Cathy, launches National Science and Research Priorities [2024-09 update](#)
Fontaine, Joe [2021-01 Butler](#)
Food and Agriculture Organization of the United Nations *see* FAO
FoRCE (Forest Restoration and Climate Experiment) [2021-08 University](#)
Forest Art Intelligence (FAI), at Samford Peri-urban SuperSite [2024-02 art](#)
Forest Education Foundation [2013-04 learners](#)
forest evolution, fire and giant eucalypts [2012-11 fire](#)
forest management
biodiversity landscape approach, Tasmania [2019-08 Yee](#)
fire, and ecological succession towards rainforest [2012-11 fire](#)
forest monitoring data, NSW, available via TERN [2022-07 forest](#)
Forest Research Institute (University of the Sunshine Coast) [2021-08 University](#)
forest soil greenhouse gas exchange, prescribed burn impacts [2015-06 impacts](#)

forest structure

and function, NSW data accessible via TERN [2022-07 forest detection from space](#) [2012-07 detecting](#)

DWEL terrestrial laser scanning use [2014-10 echidna](#)

ForestLAS toolkit [2014-06 value](#)

forestry policy and practice

tall, wet eucalypt forests, Tas. [2012-08 research](#)

TERN research improves [2014-11 forestry](#)

Forestry Tasmania [2013-02 TERN](#), [2013-06 appreciating](#), [2014-11 forestry](#), [2015-02 lasers forests](#)

as nature's shock-absorbers [2021-01 forests](#)

below canopy laser scanning using drones [2020-08 training](#)

biomass estimation using on-ground remote sensing [2018-11 forests](#)

coupling forest canopy and atmosphere components in models that simulate ecosystem shifts in response to climate change [2022-03 novel](#)

Earth's forests in 3D, using NASA's GEDI space-borne laser [2021-07 satellite](#)

global analysis of distribution across dryland ecosystems, using TERN data [2017-05 forests](#)

hydraulic traits and susceptibility to drought [2021-05 living](#)

measurement of soil, tree and forest hydraulic conductance [2022-03 novel](#)

mortality, during extreme droughts [2013-05 extreme](#)

predicting forest health and mortality [2021-05 living](#)

role of fallen tree, ecosystem models [2016-11 Buettel](#)

role in lessening the impacts of extreme weather on natural and modified landscapes [2021-01 forests](#)

vulnerability to drought, continental-scale assessment [2021-05 living](#)

Forests Survey Protocols *see* AusPlots Forests, Survey Protocols

Forsius, Martin [2015-02 TERN](#)

Fostering collaboration between governments [2014-04 fostering](#)

Fostering Global Connections: TERN at the International Ecology School 2024 [2024-09 fostering](#)

Foulkes, Jeff [2012-10 AEKOS](#)

Foundation for Research on Biodiversity (FRB), France [2012-05 business](#)

Foundation for Rural & Regional Renewal [2014-11 National](#)

Foundations for the future: a long-term plan for Australian ecosystem science [2014-07 foundations](#), [2014-09 get](#), [2015-04 Council](#), [2015-12 Council](#)

development [2014-05 future](#)

Highly Commended at IAP2 Australasia Core Value Awards [2015-12 Council](#)

launched [2014-07 foundations](#)

recommends creation of Ecosystem Science Council [2014-12 Council](#)

steering committee and [2014-07 foundations](#)

Four states in the field at Chowilla [2012-02 four](#)

Fowlers Gap Research Station, integrated UAV Field Campaign [2016-10 drones](#)

Fox, Andy [2014-07 Hoar](#)

Fox, Ian [2013-07 AusPlots](#), [2014-09 collaboration](#), [2015-02 treasures](#), [2015-06 Pilbara](#)

Fox, Peter [2021-04 update](#)

Fraction of Absorbed Photosynthetically Active Radiation (FAPAR), satellite-based estimates [2018-08 global](#)

Fractional Green Cover [2016-03 satellite](#)

France, plans to establish an ecosystem observatory [2017-10 observatory](#)

Francis, Nikki [2018-09 Cape York](#), [2018-10 surveys](#), [2019-06 training](#), [2019-07 observatory](#), [2019-12 essential](#)

Francis-Martin, Nikki [2022-12 treasure](#)

Frank, Anke [2013-11 plot](#)

Frankenberg, Christian [2020-01 prototype](#)

French, Kris [2013-01 your](#), [2013-02 access](#), [2013-03 where](#), [2014-07 foundations](#)

French Island, Vic., new site in TERN OzFlux network [2021-10 French](#)

Fresh perspectives on paper daisy taxonomy [2023-01 fresh](#)

freshwater ecology, focus of 2013 ACEAS Grand Workshop [2013-09 pressures](#)

frogs, pilot frog data added to 2024 Threatened Species Index [2024-12 threatened](#), [2024-12 update](#)

From Chicago to the NT: CDU PhD candidate on tropical quest to study carbon unknown [2023-11 Chicago](#)

From creatures that live in mineral deposits to the poles, DNA barcoding matures and spreads [2012-02 creatures](#)

From the ground up: a new way of seeing Australia's soils [2012-12 ground](#)

From tall trees to high country, TERN infrastructure measures Victoria [2013-07 tall](#)

fruit plantations, remote-sensed data to assist management [2012-08 aerial](#), [2014-11 satellite](#)

Fuchs, David [2014-08 SPEDDEXES](#)

Fudan University [2021-04 predicting](#)

fuel reduction burns

Cleland Conservation Park, Adelaide, citizen science photo monitoring [2013-11 smile](#)

temperate forests, impact on soil greenhouse gas exchange [2015-06 impacts](#)

to mitigate threats while maintaining biodiversity, WA [2021-01 Butler](#)

Top End national parks [2015-04 ecologically](#)

Full house for AusPlots training – and more to come [2012-02 full](#)

FullCAM (Full Carbon Accounting Model) [2018-08 greenhouse](#)

Fun and games meet research: valuing ecosystems through interactive games [2013-12 fun](#)

functional ecology, building a global picture of plant ecological function [2021-07 building](#)

Funding boost for TERN supported biomass and carbon measurement project [2015-04 funding](#)

Furlan, Elise [2020-05 Canberra](#)

Furlaud, James, post-fire data on forest fuel loads, Warra Tall Eucalypt SuperSite [2016-03 Furlaud](#)

Future ecosystem scientists get hands-on in the tropics [2013-11 future](#)

Future planning makes sense for ecosystem science [2014-05 future](#)

Fyfe, Sue [2019-12 Snowy](#)

G7 Group of Senior Officials on Global Research Infrastructures (GSO) encourages further development of GERI [2020-12 GERI](#)

Gackle, Angela [2019-06 training](#)

Gago, Xurxo [2016-10 drones](#)

Gaia Resources [2011-10 surveys](#)

Galway, Kylie [2019-12 Snowy](#), [2020-11 update](#)

game development, economic values people hold for ecosystem services [2014-10 Moore](#)

Gane, Michelle [2012-04 focus](#), [2013-04 learners](#)

Gap filling an ecosystem monitoring network [2021-02 gap](#)

Gardner, Janet [2020-01 heatwaves](#)

Garretson, Sean [2021-09 Centre](#)

Garrett, Geoff [2012-11 helping](#)

Gartmann, Alexandra [2014-11 National Gascoyne bioregion](#) [2014-09 collaboration](#)

Gellie, Nick [2013-04 students](#), [2014-05 sample](#), [2019-06 training](#), [2020-09 Kangaroo](#), [2021-10 reviewing](#)

Genes to Geoscience Research Centre (Macquarie University) [2016-06 Journal](#)
genetics, role in ecology [2011-09 despotic](#)
genomic research, non-human eDNA, ethical implications for Indigenous Australians [2021-03 ARC](#)
genomic sequencing, plant samples from the Pilbara, WA [2021-11 next-gen](#)

Gentle, Ian [2013-11 strategic](#), [2014-04 education](#)

GEO *see* Group on Earth Observations

GEO-TREES project, Robson Creek Rainforest SuperSite data contributing to global forest biomass reference system [2024-07 update](#)

Geo-Wiki tool [2012-10 AusCover](#), [2013-04 local](#), [2016-06 budding](#)
geological layer, and CZO [2019-07 treetop](#)

GeoNadir-TERN collaboration makes national research drone data available to the public [2024-02 national](#)

George Washington University, USA [2019-04 TERN data](#)

Geoscience Australia [2012-06 benefits](#), [2014-07 Rickards](#), [2019-08 mangrove](#)
as collaborator in Soil and Landscape Grid of Australia [2011-11 world](#), [2013-12 TERN](#), [2014-11 National](#)
collecting priority data on Surface Reflectance (NBAR) [2019-04 Mitchell](#)

Digital Earth Australia branch *see* Digital Earth Australia (DEA)

Digital Elevation Model products [2019-03 R package](#)
importance of NICRIS projects [2017-05 data](#)
mangrove monitoring maps [2018-06 mangrove](#)
Sentinel fire mapping [2014-01 watchful](#)
SPEDDEXES collaboration [2014-04 sky](#), [2014-08 SPEDDEXES](#)
time series enhanced data product of soil and exposed rock [2021-02 Earth](#)

geospatial science, *vale* Dr Peter Woodgate [2023-01 vale](#)

geosphere, Integrated Earth 2023 conference, Canberra [2023-11 Integrated](#)

GERI *see* Global Ecosystem Research Infrastructure (GERI)

German Aerospace Centre (DLR), global vegetation health monitoring, Litchfield Savanna Supersite [2021-11 verifying](#)

German Centre for Integrative Biodiversity Research (iDiv) [2013-09 beer](#), [2018-12 vegetation](#)

Get involved in forming the new Ecosystem Science Council! [2014-09 get](#)

Getting the measure of soil moisture in Australia [2021-10 getting](#)

Ghent, Darren [2019-08 Copernicus](#)

Ghent University, Belgium [2015-12 Maes](#), [2018-11 forests](#), [2020-02 ghost](#), [2020-06 trusted](#), [2023-01 experience](#)

Ghost Trees (mixed media/3D digital installations) [2020-02 ghost](#), [2023-01 experience](#)

Giants Under Threat – the unique response of Tasmania’s tall eucalypts to warmer temperatures [2024-07 giants](#)

Gibbons, Phil, field-based learning for ANU undergraduates at Booderee National Park [2014-09 Gibbons](#)

Gibson, Neil [2017-03 conserving](#)

Gibson Desert bioregion [2014-09 collaboration](#)

gidyea (*Acacia georginaea*) [2013-11 plot](#)

Gifu University, Japan [2018-08 Top End](#)

Gilbert River catchment, Qld, management [2014-03 integrated](#)

Gillespie, Graeme [2015-04 ecologically](#)

Giltrap, Donna [2019-11 Manaaki](#)

Gingin Banksia Woodland SuperSite, WA

- biodiversity monitoring [2020-10 monitoring](#)
- ecosystem productivity and stress monitoring infrastructure installed [2020-10 monitoring](#)
- recharge, rainfall and evapotranspiration data [2021-08 students](#)
- research, measurements, data and documentation of ecosystem threats [2020-05 Gingin](#)
- SIF sensor installation [2020-01 prototype](#)

Gippsland Lakes, Vic., invasive marine pest species, survey [2020-07 Centre](#)

Girolo, Elisa [2023-04 update](#)

Glatz, Richard [2020-09 Kangaroo](#)

- global biodiversity observation system [2019-11 biodiversity](#)
- global biodiversity threats, grand challenges in [2020-11 Global](#)
- global carbon, mapped using SMAP [2015-02 NASA](#)
- global carbon budgets, estimates from scaled up virtual forest biomass measurements [2018-11 forests](#)
- global carbon cycle, peatlands role [2020-07 Kopuatai](#)
- global carbon dioxide concentrations, modelling, Australia's contribution to [2013-02 carbon](#)
- global climate, TERN data used in space station study of [2018-06 space](#), [2018-07 TERN](#)
- global climate modelling, significance of Australian FluxNet data [2019-01 valuable](#)
- global drought research, TERN joins international Network-of-Networks to help [2024-07 network](#)

Global Drylands Assessment phase of the Global Forest Survey [2016-06 FAO](#), [2017-05 forests](#)

Global Earth Observation System of Systems (GEOSS) [2015-12 vision](#), [2018-03 map](#)

- Asia-Pacific Symposium, Kyoto, October 2018 [2018-11 Kyoto](#)

Global Ecology Laboratory (Flinders University), research and activities [2020-11 Global](#)

Global Ecosystem Dynamics Investigation (GEDI)

- calibration and validation [2019-04 shaping](#)
- space-borne laser instrument to measure the structure of Earth's tropical and temperate forests in high resolution and three dimensions [2018-08 laser](#), [2021-07 satellite](#)

global ecosystem observatory [2016-03 global](#), [2017-09 Korea](#), [2017-10 observatory](#)

Global Ecosystem Research Infrastructure (GERI)

- chair of governance board handed to TERN for six months [2020-09 update](#), [2020-10 TERN](#), [2020-12 GERI](#)
- current participating Environmental Research Infrastructure (ERIs) in [2020-12 GERI](#)
- endorses Brno Declaration on Fostering a Global Ecosystem of Research Infrastructures [2023-02 Brno](#), [2023-02 update](#)
- function and change of indicator ecosystems across biomes [2021-10 TERN](#)
- Memorandum of Understanding (MoU) signed by 6 continental observatories [2020-12 GERI](#)
- Publishes scientific rationale how its federation of capabilities will address global grand challenges [2022-05 federation](#)
- TERN joins international Network-of-Networks to help global drought research [2024-07 network](#)
- TERN's leadership role in [2020-10 TERN](#)

global ecosystem risk assessment [2016-09 global](#)

Global efforts to understand drought sensitivity [2017-01 global](#)

global environmental monitoring, how to prepare for seamless in-situ remote sensing

observations to meet present and future model needs [2023-06 update](#)
Global Environmental Observatory Workshop, Hyytiälä, Finland [2023-06 update](#)
Global Environmental Research Infrastructure (GERI) *see* Global Ecosystem Research Infrastructure (GERI)
global forest cover, TERN data shows nearly 10 per cent increase, across dryland ecosystems [2017-05 forests](#)
Global Forest Observation Initiative (GFOI), Satellite Data Strategy [2011-11 continuity](#)
Global Forest Survey (UN FAO) [2017-05 forests](#)
Oceania component [2016-06 FAO](#)
global impact science [2015-12 supporting](#)
Global long-term research [2018-12 long-term](#)
Global Mangrove Watch (GMW) [2019-08 mangrove](#)
Global Positioning Systems (GPS), Australia's reliance on overseas [2014-06 safeguarding](#)
Global Symposium on Soil Organic Carbon (FAO) [2017-04 soil](#)
Global Vegetation Database [2014-12 creating](#), [2018-12 vegetation](#)
Global Vegetation Project's open-access map, 60 Australian vegetation photos captured at TERN monitoring sites added to [2021-04 putting](#)
global warming, impact on tundra plants and animals [2013-08 Bogong](#)
GlobalSoilMap (digital soil map) [2013-12 TERN](#), [2017-04 soil](#)
Goddard, Madeline [2024-09 tidal](#)
Gold Coast City Council, monitoring change in beach conditions [2013-06 keep](#)
golden bandicoot (*Isoodon auratus barrowensis*), translocation to Doole Island, WA [2021-09 Centre](#)
golden clover (*Trifolium aureum*) – Australia's newest weed [2018-11 weed](#)
Goldfields Environmental Management Group [2013-10 western](#)
Goldfields–Esperance Development Commission (GEDC) [2013-10 western](#)
Goldfields Land and Sea Council [2013-07 agriculture](#), [2013-10 western](#), [2014-01 Ngadju](#)
Goldfields Regional Survey sampling, WA [2014-07 van Leeuwen](#)
Gondwana Link [2013-07 agriculture](#)
Good, Megan, and Libby Rumpff, launch new threatened woodland recovery plan [2021-09 ecologists](#)
Goodsite, Michael [2021-10 update](#)
Google Australia and New Zealand [2013-01 acorn](#), [2013-01 your](#), [2013-02 TERN](#), [2013-03 where](#)
Google Crisis Response [2013-01 acorn](#)
Google Earth, as backdrop to Geo-Wiki maps [2013-04 local](#)
Google Earth Engine
delivers TERN's Soil and Landscape Grid of Australia [2017-02 Google](#)
provides access to TERN's actual evapotranspiration (AET) dataset [2021-08 actual](#)
to provide detailed satellite imagery about Australian landscapes [2012-11 using](#)
Google Earth Outreach [2013-01 acorn](#)
TERN collaboration with [2012-10 AusCover](#), [2012-11 using](#), [2012-12 building](#)
Goonderoo Reserve, Qld, TERN ecosystem surveillance plot sites [2019-07 observatory](#)
GOSAT observations, recurrent carbon dioxide pulses over the Australian continent [2023-06 soil](#)
Gould, Elliot [2021-09 ecologists](#)
Goumas, Margarita, makes Parks Australia environmental data openly accessible [2014-07 Goumas](#)
A gourmet guide for koalas [2014-05 gourmet](#)
Government metadata delivery faster and easier [2011-09 government](#)

GovHack awards, open data from TERN and NCRIS partners recognised at [2016-11 open](#)
Goyder's Line, agricultural land-use planning, TREND data use, SA [2012-08 TREND](#)
Grace, Annie [2019-06 training](#)
Grace, Peter [2012-10 eclipsed](#), [2021-06 new](#), [2021-07 Mitchell](#), [2022-07 flux](#), [2023-04 neutral](#)

Graetz, Dean [2015-09 track](#)

Graham, Andrew [2012-10 AEKOS](#)

Graham, Scott [2019-11 Manaaki](#)

Grains Research and Development Corporation (GRDC) [2012-07 evolution](#), [2012-10 app](#),
[2013-04 soil](#), [2020-02 cosmic](#)

Grant, Ian [2013-05 improving](#), [2015-01 green](#)

Grant, Mark [2014-06 evolution](#), [2018-11 Kyoto](#), [2022-03 update](#), [2023-02 update](#)

grape yields, early and accurate prediction [2014-11 early](#)

grass pollen monitoring [2013-03 greater](#), [2013-11 students](#), [2015-02 Dhillon](#), [2015-06 Davies](#), [2016-12 relief](#), [2019-10 pollen](#), [2019-09 camera](#)

grasses

C₃ and C₄, mapping and monitoring pollen levels [2019-10 pollen](#)

exotic, re-discovered in Tasmania's Midlands [2020-04 grass](#)

grassland curing, improved measurements to aid fire management [2015-01 green](#)

grassland ecosystems, weeds and native plant biodiversity [2017-12 weeds](#)

grasslands, climate change impact on nutrient availability in managed grasslands [2020-09 changing](#)

Gray, Mark [2011-12 data](#)

Gray, Sally [2018-09 Cape York](#)

graziers, and researchers [2013-11 plot](#)

grazing lands

sediment and nutrient runoff, Fitzroy Catchment [2021-08 TERN](#)

soil phosphorus status, Queensland [2021-06 improved](#)

grazing practices

sustainable, Great Barrier Reef catchments [2021-08 TERN](#)

Wambiana Grazing Trial, Charters Towers, Qld [2021-03 paddock](#), [2021-08 TERN](#)

Great Barrier Reef

comprehensive record of student data collected at Heron Island Research Station [2017-10 students](#)

Live Learning Library [2017-10 students](#)

Great Barrier Reef catchment

model of pollutant loads entering the GBR lagoon [2013-09 integrating](#)

TERN data assists government and industry-led sustainable grazing practices in GBR catchment [2021-08 TERN](#)

Great Victoria Desert, Indigenous rangers [2014-09 collaboration](#)

Great Western Woodlands [2013-10 sandplains](#)

mapping vegetation condition for large regions [2011-10 ACEAS](#)

Ngadju fire management [2014-01 Ngadju](#)

Great Western Woodlands SuperSite, WA [2012-10 rangelands](#), [2013-07 agriculture](#), [2017-01 angry](#), [2017-03 conserving](#), [2017-09 universal](#), [2019-06 barometers](#)

AusPlots Rangelands survey methodology training [2012-10 rangelands](#)

biodiversity monitoring [2020-10 monitoring](#)

CosmOz sensor installation [2020-02 cosmic](#)

Credo Station multi-purpose field studies centre [2014-09 nation-wide](#)

DroughtNet plots [2017-01 global](#), [2018-10 drought](#)
ecosystem productivity and stress monitoring infrastructure installed [2020-10 monitoring](#)
heatwave monitoring [2014-01 hot](#)
leaf level physiology, chemistry and structural traits [2018-09 data](#)
plant functional traits [2018-09 data](#)
plot-based monitoring supports WA biological survey data [2014-07 van Leeuwen](#)
predator activity along roads [2019-02 Raiter](#)
research and activities [2011-11 woodlands](#), [2011-12 SuperSite](#)
SIF sensor installation [2020-01 prototype](#)
study centre opened [2013-10 western](#)
tea bag monitoring [2016-11 tea](#)
Wood Block Decomposition 12 Month Mass Loss Assessment [2019-04 TERN data](#)
Greater Impact Through Environmental Infrastructure: Celebrating the 10th Anniversary of
NCRIS, Canberra, May 2017 [2017-04 NCRIS](#), [2017-05 data](#)
Greater than the sum of its parts: TERN's synthetic power [2013-03 greater](#)
green carpenter bee (*Xylocopa aerata*), ecosystem requirements, Kangaroo Island [2020-09](#)
[Kangaroo](#)
Green, Peter [2011-12 SuperSite](#), [2015-01 long-term](#)
Green Urban Futures, Environment Institute project [2022-03 Institute](#)
greenhouse gas accounting
agricultural sector, Australia and NZ [2020-03 investigating](#)
from tropical savanna burning [2017-02 Edwards](#)
national, TERN's role [2018-08 greenhouse](#)
greenhouse gas concentrations, 2019 data [2020-03 environment](#)
Greening Australia [2012-11 savanna](#), [2014-03 cyclones](#)
greenness index, phenology monitoring, alpine grasslands [2018-10 Marchin](#)
Greenville, Aaron [2012-09 boom](#), [2013-11 plot](#), [2014-11 mice](#), [2016-03 desert](#), [2018-09](#)
[incomplete](#), [2019-04 shaping](#), [2022-12 night](#)
Griebel, Anne [2019-10 heat](#)
Griffith, Simon [2016-10 drones](#)
Griffith University [2015-06 cyanobacteria](#), [2016-11 AEKOS](#)
Environmental Features Research Institute (EFRI) [2020-03 environmental](#)
manages Karawatha Forest, part of SEQ Peri-urban SuperSite [2011-12 SuperSite](#)
researchers [2011-12 SuperSite](#), [2012-09 looking](#)
Urban Research Program [2020-02 liveability](#)
Griffiths, Ian [2021-09 update](#)
gross primary productivity (GPP)
QA/QC, gap-filled datasets [2022-03 flux](#)
universal prediction model [2017-09 universal](#)
ground, air and satellite data for more meaningful ecosystem information [2016-10 drones](#)
Ground-Based Observations for Validation (GBOV) of Copernicus Global Land Products
[2019-08 Copernicus](#)
ground cover data
and dust storm forecasting [2014-01 windy](#), [2018-12 dust](#)
from NRM Spatial Hub, landholder use [2016-10 online](#)
ground cover monitoring for Australia project [2012-06 assessing](#), [2012-08 working](#), [2014-07](#)
[Rickards](#)
ground temperature, Heat Needle measurement of the top metre of ground, Calperum Station
[2024-11 heat](#)
groundwater, acidity, northern Australia [2014-03 plumbing](#), [2015-05 plumbing](#)

groundwater contamination, bioremediation [2020-07 Centre](#)
Groundwater Dependent Ecosystems (GDEs) [2024-12 landscapes](#)
groundwater discharge by evaporation, estimating [2017-08 Earth](#)
groundwater recharge
flux towers, Gingin, WA to understand Perth's declining watertables [2013-09 flux](#), [2017-08 Earth](#), [2020-05 Gingin](#)
student-built interactive website, Gingin SuperSite, WA [2021-08 students](#)
VMS real-time soil sensing technology to understand, Pingelley, WA [2023-04 real](#)
groundwater science, and the CZO [2019-07 treetop](#)
groundwater studies, using TERN's ecosystem-observing infrastructure for [2017-08 Earth](#)
Group on Earth Observations (GEO) [2018-03 map](#)
Biodiversity Observation Network (GEO BON) [2015-12 vision](#), [2019-12 Snowy](#)
GEO Ministerial Summit, Canberra [2019-12 Snowy](#)
GEO Week 2019, Canberra [2019-12 systems](#)
Grover, Samantha [2019-10 counting](#), [2020-07 Centre](#)
Grundy, Mike [2011-11 world](#), [2012-04 focus](#), [2012-12 ground](#), [2012-12 TERN](#), [2013-07 mapping](#), [2013-12 TERN](#), [2014-06 TERN](#), [2014-11 National](#), [2017-02 Google](#), [2017-04 soil](#), [2020-02 cosmic](#), [2020-09 digital](#), [2022-03 soil](#)
Guerin, Greg [2012-09 plants](#), [2013-04 students](#), [2016-09 biodiversity](#), [2017-12 weeds](#), [2018-07 climate](#), [2018-11 weed](#), [2018-12 vegetation](#), [2021-02 gap](#), [2022-08 vegetation](#)
Guerschman, Juan Pablo [2014-01 windy](#), [2018-12 dust](#)
Gulf Plains bioregion, AusPlots Rangelands survey [2013-07 AusPlots](#)
Gumley, Liam [2012-03 workshops](#)
Guru, Siddeswara [2012-04 focus](#), [2013-09 beer](#), [2014-04 sky](#), [2014-08 SPEDDEXES](#), [2017-08 EcoCloud](#), [2018-12 landscape](#), [2020-11 ESAus20](#), [2023-06 exciting](#), [2024-11 update](#)
as co-chair of the Information Management Committee of ILTER [2021-11 update](#)

habitat destruction, 2022 update [2023-03 environment](#)
habitat monitoring, and carbon accounting, drone use [2016-10 drones](#)
Haby, Nerissa [2014-10 quiet](#)
Hacker, Jorg [2014-06 value](#)
Hannigan, Ivan [2019-01 virtual](#), [2020-10 hot](#)
Harmonising and unifying data for effective management of plant invasions in Australia [2024-09 harmonising](#)
Harms, Kyle [2015-01 long-term](#)
Harry Butler Institute (Murdoch University), research and activities [2021-01 Butler](#)
Hart, Melissa [2021-09 Sydney](#)
Harvesting virtual forests [2018-11 forests](#)
Haughton, Ned [2018-07 stepping](#)
Hausch, Michael [2013-12 several](#)
Hausfeld, Jayden [2022-05 update](#)
Haverd, Vanessa [2012-12 special](#), [2021-02 update](#)
a more accurate carbon budget for Australia [2013-01 accurate](#)
annual Australian terrestrial carbon budget modelling [2016-10 Haverd](#)
carbon and climate research [2013-02 carbon](#)
Hawkesbury Institute for the Environment [2012-07 experiment](#), [2013-02 carbon](#), [2019-10 heat](#)
cofunds EucFACE experiment [2013-01 EucFACE](#)
EucFACE experiment [2012-05 TERN](#)
research activities and facilities [2019-07 Hawkesbury](#)

Hayman, Peter [2012-08 TREND](#)
Hayward, Jodie [2013-05 collaborative](#)
Hayward, Matthew [2019-01 ecoEd](#)
Healthy Waterways [2013-09 visualising](#)
Heard, Geoff [2022-03 citizen](#), [2022-03 TERN](#), [2023-02 update](#), [2023-03 environment](#)
heat calls, and early development, passerine birds [2020-04 Deakin](#)
Heat Needle Project: an AuScope-TERN-OZCZO joint venture [2024-11 heat](#)
heat stress, reduction in irrigated crops [2020-03 investigating](#)
Heat tips forest from CO₂ sink to source [2019-10 heat](#)
heatwaves
 and admission of dogs to vets [2019-01 virtual](#)
 comparison between Europe, California and Australia [2017-01 angry](#)
 impact on arid zone birds [2020-01 heatwaves](#)
 impact on Australian ecosystems [2014-01 hot](#), [2015-04 capabilities](#), [2017-01 angry](#)
 impact on national research infrastructure [2020-01 safeguarding](#)
 tree tolerance via sustained transpirational cooling and increased leaf thermal tolerance
 [2019-04 sweat](#)
Heckbert, Scott [2012-12 Indigenous](#)
Hedges, Brock [2019-06 training](#)
Held, Alex [2011-11 continuity](#), [2012-04 focus](#), [2012-11 helping](#), [2012-11 using](#), [2012-12](#)
[treasure](#), [2013-08 TERN](#), [2013-09 AusCover](#), [2015-04 funding](#), [2017-04 London](#), [2018-06](#)
[mangrove](#), [2021-07 all-weather](#)
 receives COSPAR Massey Award for outstanding contribution to space research [2021-02](#)
 [update](#)
Helping stakeholders assess fire risk [2012-11 helping](#)
Helping to protect Australians from the dangers of bushfires [2021-07 helping](#)
Hemming, Kyle [2019-01 ecoEd](#)
Hendra virus, and flying fox ecology [2020-03 environmental](#)
Henry, Beverley [2011-12 wild](#)
herbarium collections
 as sources of DNA [2021-11 next-gen](#)
 importance of [2015-04 Lepschi](#)
Hernandez-Santin, Lorna [2019-01 mine](#)
Hero, Jean-Marc [2012-09 looking](#)
Heron Island Research Station, Live Learning Library [2017-10 students](#)
Heupel, Michelle [2020-01 safeguarding](#)
Hibbertia rufa species group [2012-10 AEKOS](#)
high altitude monitoring, at newly launched Australian Mountain Research Facility sites
[2023-01 partners](#)
higher education
 reliance on TERN infrastructure and data products [2014-04 education](#)
 strategic future for [2013-11 strategic](#)
 turn to TERN for undergraduate curriculum [2013-11 universities](#)
 see also University *entries*
Hill, Bob [2013-11 strategic](#), [2014-04 education](#), [2022-03 Institute](#)
Hill, Steve, to join TERN Advisory Board [2022-08 update](#)
hillslope erosion
 monitoring and predicting to improve bushfire recovery [2020-04 erosion](#)
 risk areas, NSW [2020-04 erosion](#)
Himawari Eco-stress product monitoring vegetation drought [2024-12 landscapes](#)

Hinko-Najera, Nina [2020-08 Aussie](#)
historical photos, to tell flood stories [2014-10 photos](#)
Hoar, Tim, builds international links in ecosystem data and modelling [2014-07 Hoar](#)
Hobbs, Richard, named Western Australian Scientist of the Year [2012-02 Hobbs](#)
Hobday, Alistair [2023-01 Oceania](#)
Hodge, Jonathon , [2012-05 taking](#), [2012-10 coastal](#), [2013-01 new](#), [2013-06 keep](#), [2014-08 SPEDDEXES](#), [2014-10 photos](#)
Hodgens, Pat [2020-09 Kangaroo](#)
Hodgson, Jess [2019-12 Snowy](#)
Hodson, Simon [2023-11 Integrated](#)
Hoffmann, Ary [2013-08 Bogong](#)
Hogan, Braedon [2018-07 Tanami](#)
Hokkaido University, Japan [2019-12 Snowy](#)
Holmes, Karen [2021-02 Earth](#)
Holper, Paul [2019-05 observing](#)
honey harvest, predicting using weather data and remote sensed vegetation data, WA [2020-07 honey](#)
hop bush
 narrow-leaf [2012-09 plants](#), [2018-07 climate](#), [2018-09 data](#)
 sticky [2014-05 sample](#)
Hopkins, Anna [2020-09 Centre](#), [2022-08 living](#)
Hopper, Steve [2021-09 Centre](#)
horticultural crops, pollination using native stingless bees [2020-03 environmental](#)
Hot and hostile. The links between temperature, aggression and crime in Australia [2020-10 hot](#)
hot countries, value of Australian FluxNet data for [2019-01 valuable](#)
Hot on the trail of heatwaves [2014-01 hot](#)
How do we quantify Australia's ecosystem services? [2021-08 quantify](#)
How does Australia's annual environmental condition report compare globally? [2023-06 how](#)
How green is our grass? Improved measurements to aid fire management [2015-01 green](#)
How much has our landscape changed? And should we care? [2012-02 landscape](#)
How to use TERN data for ecological research [2024-10 how](#)
Howard, Siân [2014-05 sample](#), [2019-02 waxes](#)
 use of Soils to Satellites to monitor wax biomarkers as climate indicators [2014-08 Howard](#)
Howard Springs OzFlux tower site, NT [2013-07 NATT](#), [2021-03 Howard](#)
 acidic groundwater and carbon leaching from terrestrial ecosystems [2014-03 plumbing](#),
 [2015-05 plumbing](#)
 climate and fire shape savannas [2021-03 Howard](#)
 CO₂ fertilisation, trends [2021-03 Howard](#)
 phenocam seasonal vegetation change [2016-06 smile](#)
 pioneering research [2021-03 Howard](#)
Huete, Alfredo [2012-02 cross-Tasman](#), [2012-12 special](#), [2013-08 ecosystem](#), [2013-12 scaling](#), [2014-01 ecosystem](#), [2015-03 phenology](#), [2016-06 budding](#), [2016-09 NSW](#), [2016-12 relief](#), [2017-05 data](#), [2019-04 shaping](#), [2019-10 pollen](#), [2019-09 camera](#)
Hughes, Dale [2020-02 Centre](#)
Huijbers, Chantal [2016-11 AEKOS](#), [2017-06 ecoEd](#), [2019-06 remote](#)
human behaviour, weather affects on [2020-10 hot](#)
Hume, Ruby [2022-03 Institute](#)
Hunt, John [2019-11 Manaaki](#)
 soil carbon changes, dairy farms, NZ [2014-11 Hunt](#)

Hunter Valley Region, NRAR uses TERN's AET data to ensure compliant water usage [2022-05 TERN](#)

Hutchings, Finn [2015-03 AuScribe](#)

Hutchinson, Mike [2012-03 break](#), [2012-07 working](#)

Hutley, Lindsay [2014-01 connecting](#), [2014-01 hot](#), [2014-03 modelling](#), [2014-03 plumbing](#), [2015-05 plumbing](#), [2018-09 sensitive](#), [2019-10 RIEL](#), [2021-03 Howard](#), [2021-11 verifying](#)
receives 2024 *Radicle Science Awards NT* winner of the "Excellence in Scientific Research" award [2024-11 update](#)

hydrological impacts of roads and linear infrastructure on water flow across the landscape [2019-02 Raiter](#)

hydrosphere, Integrated Earth 2023 conference, Canberra [2023-11 Integrated](#)

Hyperion (sensor on board Earth Observing One (EO-1) satellite) [2012-12 treasure](#)

Hyperspectral imaging gets a makeover [2011-11 hyperspectral](#)

I spy: enhanced camera network to track environmental change [2019-09 camera](#)

Ian Potter Foundation [2017-04 farms](#)

ICESAT Geoscience Laser Altimeter System [2016-03 satellite](#)

ICON Science (RMIT University) [2020-02 liveability](#)

Ideas and influence: how can scientific knowledge shape policy? [2013-01 ideas](#)

iLEAPS – OzFlux Joint Conference, Auckland, severe flooding affects [2023-01 update](#)

ILTER (International Long-Term Ecological Research)

attends AusILTER Forum, Brisbane, November 2018 [2018-12 long-term](#)

Australian node (Aus-LTER) [2017-10 observatory](#)

East Asia Pacific hybrid Science Symposium, July 2023 [2023-03 update](#)

East Asia Pacific regional chapter (ILTER-EAP) [2019-03 Asia](#)

East Asia-Pacific Regional Network Conference [2021-07 long-term](#)

joins field visit to Tumbarumba SuperSite [2019-12 Snowy](#)

long-term research forum [2018-12 long-term](#)

meeting

Chiloé Island, Chile, December 2014 [2015-02 TERN](#)

Nantes, France, October 2017 [2017-10 observatory](#)

Rome, Italy, September 2015 [2015-12 supporting](#)

South Korea, October 2013 [2013-10 TERN](#),

Open Science Meeting, Xishuangbanna, Yunnan, China, October 2024, TERN representation [2024-11 update](#)

TERN collaborations with [2015-12 vision](#), [2016-11 NASA](#)

TERN representation and presentations, towards a global ecosystem observatory [2016-03 global](#)

Imagining a future: regional, self-determining, diverse, enduring [2012-08 imagining](#)

IMOS *see* Integrated Marine Observations System (IMOS)

The impact of climate change on South Australia's flora [2018-07 climate](#)

Impact of TERN publications assessed [2015-12 impact](#)

The impacts of fuel reduction burns on soil greenhouse gas exchange [2015-06 impacts](#)

Improved maps of available phosphorus for the state of Queensland [2021-06 improved](#)

Improving access to national climate data [2013-05 improving](#)

Improving national capacity to manage coasts [2012-12 improving](#)

Improving understanding of extreme coastal events [2014-01 improving](#)

incomplete long-term datasets, new modelling solution using MARSS [2018-09 incomplete](#)

Index of TERN newsletter articles [2023-01 index](#)

Indian Space Research organisation (ISRO) [2018-08 laser](#)

Indigenous advocacy [2021-11 TERN](#)

Indigenous Australians

- eDNA and ethics [2021-03 ARC](#)
- fire management, Great Western Woodlands, WA [2014-01 Ngadju](#)
- new livelihoods from traditional lands in Arafura region [2012-05 new](#)
- TERN working towards inclusivity of traditional knowledge in its ecosystem database [2021-02 update](#)

Indigenous Biocultural Knowledge

- integrating with contemporary science for a healthy continent [2013-01 age-old](#)
- new website [2014-06 Indigenous](#)
- working group of ACEAS, wins Banksia Award [2014-12 ACEAS](#)

Indigenous Environmental Histories and Futures – new centre launched [2024-12 Indigenous](#)

Indigenous know-how on savanna burning to be exported [2012-12 Indigenous](#)

Indigenous Land Corporation [2012-11 savanna](#), [2014-03 cyclones](#)

Indigenous rangers

- biodiversity data collection, Southern Tanami IPA [2018-07 Tanami](#)
- knowledge exchange and skills training [2014-02 wake-up](#), [2014-09 collaboration](#)
- savanna fire management, West Arnhem Land [2015-04 ecologically](#)
- training for SWATT resampling, Birriliburu Indigenous Protected Area [2021-06 update](#)

Indonesia, peatland restoration and monitoring, Kalimantan [2019-10 counting](#)

Indonesia’s Center for Agricultural Land Resources Research and Development (ICALRRD) [2013-12 TERN](#)

industry engagement, investment in TERN delivers for Australian industry [2015-09 investment](#)

infectious zoonotic diseases

- and environmental change [2020-03 update](#)
- predicting animal to human virus transmission risk periods [2020-03 environmental](#)

Innovation Summit | Environmental Data Science Innovation & Inclusion Lab (ESIIL), Boulder, USA, workshop, 2023 [2023-06 update](#)

insect specimens, collected by light trap, PNG [2019-09 rainforest](#)

[Institute for Applied Ecology \(IAE\)](#) (University of Canberra), research and activities [2020-05 Canberra](#)

[Institute for Land, Water and Society \(ILWS\)](#) (Charles Sturt University), research and activities [2020-01 Institute](#)

INTECOL (International Congress of Ecology), Beijing, China, August 2017 [2017-10 observatory](#)

integrated Carbon Observation System (ICOS) [2020-06 update](#)

- 2020 science conference [2020-09 update](#)
- schools-based air monitoring network [2021-09 Sydney](#)

integrated catchment planning [2011-09 despotic](#)

integrated data assets for better reporting, EcoAssets project [2021-11 delivering](#)

“Integrated Earth 2023”: save the date and take the survey [2022-12 Integrated](#), [2022-12 update](#)

Integrated Earth 2023 conference highlights the ambition of Australia’s Earth science community [2023-11 Integrated](#)

Integrated Marine Observations System (IMOS) [2014-08 SPEDDEXES](#), [2015-12 vision](#), [2017-08 EcoCloud](#)

- ACEF partnership with [2012-12 improving](#), [2014-04 NCRIS](#)
- data infrastructure provision [2013-06 data](#)
- environmental data assets available via EcoAssets [2022-08 streamlined](#)

improving understanding of extreme coastal events [2014-01 improving](#)
protecting infrastructure from extreme climatic conditions [2020-01 safeguarding](#)
role in EcoAssets project [2021-11 delivering](#)
TERN links to [2013-02 refocus](#)

Integrating plot-based ecological data in Australia: a semantic approach [2019-09 integrating](#)
Integrating research gives the grounds for healthy catchments [2013-09 integrating](#)
Interested in time-series LiDAR data? We want to hear from you [2021-05 interested](#)
Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES) [2013-02 refocus](#)

Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) [2015-12 vision](#)

Interim Biogeographic Regionalisation for Australia (IBRA) [2018-03 map](#)

International Barcode of Life (IBOL) Conference, Fourth, University of Adelaide, Nov-Dec 2011 [2011-08 barcode](#), [2012-02 creatures](#)

international collaborations and cooperation [2013-08 collaboration](#), [2013-09 beer](#), [2013-12 collaborative](#), [2013-12 TERN](#), [2014-12 TERN](#), [2015-02 TERN](#), [2015-12 vision](#), [2016-03 global](#), [2016-11 NASA](#), [2016-12 drought](#), [2017-09 Korea](#), [2017-10 observatory](#), [2018-07 TERN](#), [2019-12 Snowy](#), [2024-09 fostering](#)

International Conference on Research Infrastructures ICRI)
Brisbane [2024-12 update](#)
Brno [2023-02 Brno](#), [2023-02 update](#)

International data recognition sought for TERN [2021-05 international](#)

International Ecology School, South Korea
potential Queensland ecology field sites that may host students [2019-03 Asia](#)
TERN as participant, 2024 [2024-09 fostering](#)

International environmental change research enabled by TERN [2021-06 international](#)

International Geosphere-Biosphere Program (IGBP) [2014-03 northern](#)

International Gravity Observatory [2017-08 Earth](#)

International Long-Term Ecological Research *see* ILTER

International Tundra Experiment [2012-08 sustaining](#), [2013-08 Bogong](#)

International Union for the Conservation of Nature *see* IUCN

international visitors [2014-12 TERN](#)

INTERSECT [2014-08 SPEDDEXES](#)

introduced species
implications of golden clover for native biodiversity [2018-11 weed](#)
occurrences, terrestrial and marine ecoregions, summary data [2022-08 streamlined](#)

invasive plant species, unifying terminology and datasets for effective management, Australia [2024-09 harmonising](#)

invasive species, 2022 update [2023-03 environment](#)

Investigating carbon, water and energy fluxes in agricultural systems of Australia and New Zealand [2020-03 investigating](#)

Investment in TERN delivers for Australian industry [2015-09 investment](#)

Investment proposal for a national predictive research infrastructure [2020-11 investment](#)

Ip, Alex [2014-08 SPEDDEXES](#)

Ironstone, Kelvin [2014-12 ACEAS](#)

irrigated cropping, and reduced pasture/crop heat stress [2020-03 investigating](#)

Irvine, Kate [2019-06 training](#), [2020-11 ESAus20](#), [2022-08 web-based](#)
Community training in TERN's *Fauna Monitoring Protocols* [2021-05 Brisbane](#)

Isaac, Peter [2015-03 OZFluxQC](#), [2017-07 breathing](#)

Ishida, Yoko [2014-03 hives](#), [2019-09 Centre](#)

Island Songs' daily radio show [2017-05 sound](#)

It's a long way to the top if you wanna survey Cape York [2018-09 Cape York](#)

IUCN Commission on Ecosystem Management [2018-06 mangrove](#)

IUCN Red List of Ecosystems [2013-12 collaborative](#), [2015-12 vision](#), [2016-09 global ecosystem risk assessment of mountain ash forests](#) [2014-08 facilitating](#), [2014-12 research](#), [2015-03 CoESRA](#), [2015-12 vision](#), [2019-01 virtual](#)

global ecosystem risk assessment protocol [2013-02 TERN](#), [2013-03 greater](#)

Jacklyn, Peter, uses TERN infrastructure for fire mapping across the Top End [2014-07 Jacklyn](#)

Jackson, Micha [2023-02 state](#)

jacky winters (*Microeca fascinans*), impact of extreme heat on [2020-01 heatwaves](#)

Jagdish, Chenupatti [2014-07 foundations](#)

James Cook University [2020-01 Institute](#)

Centre for Tropical Biodiversity and Climate Change [2011-12 SuperSite](#)

Centre for Tropical Environmental and Sustainability Science (TESS) [2019-09 Centre](#)

Daintree Rainforest Observatory (JCU-DRO) [2016-09 possum](#)

ecosystem processes [2023-12 TERN](#)

Fletcherview Research Station (SuperSite) [2020-05 update](#), [2021-03 paddock](#)

international collaboration [2015-12 vision](#)

jointly manages FNQ Rainforest SuperSite [2011-12 SuperSite](#)

leads TERN's Multi-Scale Plot Network (MSPN) [2011-12 SuperSite](#)

management of northern coastal catchments [2014-03 integrated](#)

researchers [2011-09 despotic](#), [2012-10 eclipsed](#), [2016-11 tea](#), [2020-07 effective](#), [2021-03 paddock](#), [2021-09 control](#), [2024-01 extending](#), [2024-09 fostering](#)

rains ecosystem scientists at Robson Creek Rainforest SuperSite [2021-11 tour](#)

James Tizard Memorial Prize for e-research [2011-12 e-research](#)

Japan Aerospace Exploration Agency (JAXA), Kyoto and Carbon (K&C) initiative [2016-03 satellite](#)

Global Mangrove Watch project [2018-06 mangrove](#)

vegetation height and structure monitoring [2012-07 detecting](#)

Japan Long-Term Ecological Research (JaLTER) [2015-12 supporting](#), [2016-03 global](#), [2016-11 NASA](#)

Japanese Advanced Land Observing Satellite (ALOS) [2016-03 satellite](#)

Jervis Bay Booderee National Park Plot Network [2013-11 plot](#), [2016-09 Booderee](#)

Jet Propulsion Laboratory (JPL)

data sharing with [2016-11 NASA](#), [2018-06 space](#), [2018-07 TERN](#)

Earth Science Division [2019-11 biodiversity](#)

importance of synthesis centres in understanding ecological functions [2013-02 access](#)

releases new satellite called SMAP to measure soil moisture [2015-02 NASA](#)

Johnson, Chris, Australian Ecology Research Award lecturer, on causes of mammal declines and extinctions in Australia [2012-09 AERA](#)

Joint Remote Sensing Research Program (JRSRP) [2012-07 detecting](#), [2014-03 cyclones](#), [2016-03 satellite](#), [2016-10 drones](#), [2018-08 laser](#), [2018-12 dust](#), [2019-04 Mitchell](#), [2019-06 remote](#)

Jones, Megan [2020-09 Centre](#)

Jones, Steve [2017-06 map](#)

Journal of Ecology honours eminent ecologist and TERN Advisory Board member [2016-06 Journal](#)

journals represented in TERN publications [2019-03 publications](#)

Joyce, Karen [2013-11 universities](#), [2024-02 national](#)

Joyce, Lizzy [2019-09 Centre](#)

Just part of the picture: camera traps reveal biodiversity at high-tech ecosystem observatories [2017-09 camera](#)

Kakadu National Park

and Ranger uranium mine rehabilitation [2019-01 mine](#)

extreme fires effect on savannas [2013-05 collaborative](#)

fire management [2015-04 ecologically](#)

five-yearly survey [2013-05 collaborative](#)

impact of sea level rise on Kakadu wetlands [2014-03 helping](#), [2014-04 fostering](#)

improved park management [2017-07 Kakadu](#)

Kakadu National Park Traditional Owners [2013-05 collaborative](#)

Kakadu region, tracking past rainfall using nutshells from Madjedbebe rock shelter [2021-03 ARC](#)

Kalatha Giant Tree Boardwalk, near Healesville, Vic. [2013-07 tall](#)

kangaroo counting, drone use [2016-10 drones](#)

Kangaroo Island

monitoring the impacts of bushfires on soils [2021-10 monitoring](#)

post-bushfire surveys to track ecosystem recovery [2020-09 Kangaroo](#)

summary of TERN plots on [2020-09 Kangaroo](#), [2021-10 monitoring](#)

Kangaroo Island dunnart (*Sminthopsis aitkeni*), ecosystem requirements [2020-09 Kangaroo](#)

Kangaroo Island Land for Wildlife [2020-09 Kangaroo](#)

Karan, Mirko [2013-08 cosmic](#), [2013-08 like](#), [2013-10 western](#), [2014-12 TERN](#), [2016-11 tea](#)

Karawatha Forest Park, Qld [2012-09 looking](#), [2013-08 TERN](#), [2014-10 armchair](#), [2014-10 echidna](#)

Karijini National Park, WA, AusPlot ecosystem monitoring site [2015-06 Pilbara](#)

Karsdorp, Wilma [2020-11 ESAus20](#)

Keck Institute for Space Studies (KISS) [2019-11 biodiversity](#)

Keep watch on coasts from your office chair [2013-06 keep](#)

Keith, David [2012-09 understanding](#), [2013-02 TERN](#), [2015-12 vision](#), [2016-09 global](#), [2016-09 NSW](#)

receives Australian Ecology Research Award [2013-12 collaborative](#)

receives Australian Institute of Botanical Science Eureka Prize for Excellence in Botanical Science [2024-09 update](#)

Keith, Heather [2014-12 research](#)

Kelly, Dione [2018-07 Tanami](#)

Keninger, Lucy [2011-11 exploring](#), [2011-12 wild](#)

Kessner, Vince [2013-05 collaborative](#)

Khuyen, Kim [2019-06 training](#)

Kidnie, Susan [2015-01 green](#)

Kim, Eun-Shik [2013-10 TERN](#)

Kim, Hyun-Seok [2022-08 update](#)

King, Edward [2014-08 SPEDEXES](#)

king tides, impact on coastal ecosystems [2014-01 improving](#)

Kirschbaum, Dalia [2023-11 Integrated](#)

Kirschbaum, Miko [2019-11 Manaaki](#)

Kitchen, Mark [2019-08 Copernicus](#)

Kitching, Roger [2011-12 SuperSite](#)

KiwiFlux [2014-11 Hunt](#)

Kloppers, Gabrielle [2013-11 future](#)

koalas

habitat mapping, high-resolution spectroscopy data use [2014-05 gourmet](#)

habitat prediction under future climate patterns [2020-11 Global](#)

population decline, NSW and Qld [2012-09 analysis](#)

population monitoring, spot assessment technique using droppings, Karawatha Forest Park,

Qld [2012-09 looking](#)

regional population dynamics [2011-10 ACEAS](#)

Koeleria macrantha, re-discovered in Tasmania's Midlands after nearly 180 years [2020-04 grass](#)

Koerber, Georgia [2014-01 TERN](#), [2019-06 training](#)

Kohler, Jamie [2019-06 training](#)

Konijin, Jacco [2019-12 Snowy](#)

Koonamore Vegetation Reserve, SA

long-term study by University of Adelaide students of regeneration of natural vegetation

[2014-02 experience](#), [2015-09 track](#)

Kopuatai Bog, NZ, OzFlux site [2020-07 Kopuatai](#)

Korea Ecological Observatory Network (KEON) [2014-12 TERN](#), [2016-03 global](#), [2016-11 NASA](#), [2017-09 Korea](#)

Korean delegation, TERN hosts [2014-12 TERN](#)

Korean Long-Term Ecological Research Network (KLTERN) [2014-12 TERN](#), [2017-09 Korea](#), [2019-03 Asia](#), [2024-09 fostering](#)

Kosciuszko National Park, Australian Mountain Research Facility launched [2023-01 partners](#)

Kowal, Emma [2021-03 ARC](#)

Kraehe, Annie [2019-06 training](#)

Krisianski, Sean [2020-08 training](#)

Krockenberger, Andrew [2016-09 possum](#)

Kulmala, Markku [2023-06 update](#)

Kutsch, Werner [2021-09 Sydney](#)

Kutt, Alex [2012-09 wave](#), [2015-06 condition](#)

Kwon, Ohseok [2014-12 TERN](#), [2017-09 Korea](#), [2019-03 Asia](#)

'Kyoto Statement' on Asia-Pacific actions on SDGs [2018-11 Kyoto](#)

Kyungpook National University [2014-12 TERN](#)

Ecological Entomology Library, South Korea, signs MoU with TERN [2017-09 Korea](#)

La Niña conditions, change to El Niño with environmental conditions swinging from wet to dry and back [2024-03 environment](#)

La Trobe University

post-graduate research [2013-11 students](#)

Research Centre for Applied Alpine Ecology [2017-06 decades](#), [2021-04 Research](#)

researchers [2011-12 SuperSite](#), [2015-01 long-term](#)

Laity, Tania [2012-02 decisions](#), [2012-06 new](#)

LAMPS lights TERN's way [2011-09 LAMPS](#)

Land and Sea Country management planning, CIEHF role [2024-12 Indigenous](#)

land-atmosphere energy, carbon and water exchange micro-meteorological data from 33

TERN-supported flux stations [2022-03 flux](#)

land cover change, EarthTrack app for citizen scientists [2024-01 data](#)

land management

aerial imagery use, farming decisions [2012-08 aerial](#), [2014-11 satellite](#)

AusCover long-term satellite data for [2012-12 building](#), [2015-09 satellite](#)

carbon economy and biodiversity [2012-07 carbon](#)
hillslope erosion risk map applications [2020-04 erosion](#)
Indigenous know-how on burning savannas to be exported to Timor and Papua New Guinea [2012-12 Indigenous](#)
intensity, impact on carbon stocks and flows, plant water use and heat stress [2020-03 investigating](#)
outcomes, improving [2012-08 working](#), [2018-12 dust](#)
practices, and hillslope erosion monitoring [2020-04 erosion](#)
land managers
evaluating the risk of plants and animals to extreme events [2021-01 forests](#)
instant access to localised soil information [2013-04 soil](#)
land restoration, active restoration to improve soil condition and plant and animal diversity [2012-12 restoration](#)
land surface, effect of changes in on the climate [2012-07 working](#)
land surface models (LSMs), improving the performance of [2018-07 stepping](#)
land surface phenology [2015-03 phenology](#)
land use, "will European land use devastate Australia's unique biodiversity" - debate [2012-02 landscape](#), [2012-04 romantics](#)
land-use change, affect on water resources and greenhouse-gas exchange, NT [2013-07 NATT](#)
land-use planning, TREND data, primary production areas, SA [2012-08 TREND](#)
Landcare Research New Zealand [2014-11 Hunt](#)
purpose and research activities [2019-11 Manaaki](#)
landholders, ground cover data use, from NRM Spatial Hub [2016-10 online](#)
landscape assessment
NASA shuttle mapping, Top End with an eye to agriculture [2013-07 mapping](#)
see also AusCover; Soil and Landscape Grid of Australia
Landscape Context Planning System, integrating landscape ecology into forest management [2019-08 Yee](#)
Landscape Data Visualiser [2018-12 landscape](#), [2020-05 teaching](#)
landscape monitoring, as part of multi-scaled approach to effective ecosystem monitoring [2020-07 effective](#)
Lang, Peter [2020-10 botanists](#)
Langenheim, Nano [2017-06 ecoEd](#), [2019-01 ecoEd](#)
Langley, Margaret [2013-10 sandplains](#)
Langlois, Tim [2019-04 ecocloud](#)
Lasers, drones and tree climbers measuring Tassie's World Heritage forests [2015-02 lasers](#)
Lateral Economics, report on cost-benefit analysis of national research infrastructure [2022-03 update](#)
Latz, Peter [2011-12 wild](#)
Laubach, Johannes [2019-11 Manaaki](#), [2020-11 Ashley](#)
Laughlin, Daniel [2021-04 putting](#)
Laurance, Bill [2019-09 Centre](#)
Laurance, Susan [2014-01 Daintree](#), [2014-03 hives](#), [2017-02 raincoat](#), [2017-12 raincoat](#)
Law, Brad [2022-07 forest](#)
Lawes, Michael [2013-02 TERN](#)
Lawrie, Tayla [2023-02 update](#), [2023-06 exciting](#), [2024-03 environment](#), [2024-11 update](#)
le Roux, Xavier [2012-05 business](#)
Leadbeater's possum (*Gymnobelideus leadbeateri*) [2015-12 vision](#), [2016-09 global](#)
Leaf Area Index (LAI)
researcher use, TERN poll [2030-03 leaf](#)

satellite-based estimates [2018-08 global](#)
leaf level physiology, chemistry and structural traits, from seven TERN SuperSites [2018-09 data](#)
leaf size, changes in [2013-04 students](#)
leaf trait data from South Australia's Mt Lofty Ranges [2018-09 data](#)
leaf traits, as predictor of plant responses to environmental change [2019-06 barometers](#)
Leaf waxes paint picture of past to inform future [2014-08 Howard](#), [2019-02 waxes](#)
Learners of all kinds roll up their sleeves for work at supersites [2013-04 learners](#)
Learning from change [2019-03 learning](#)
Lebbinck, Gabrielle [2024-02 art](#)
Lee, Hun-Bok [2022-08 update](#)
Lee, Serena [2019-04 ecocloud](#)
Leedman, Ashley [2021-07 threatened](#)
Leicester University [2019-08 Copernicus](#)
Leitch, Emrys [2012-06 assessing](#), [2013-07 AusPlots](#), [2013-09 surveys](#), [2014-03 survey](#), [2015-06 condition](#), [2015-12 catchment](#), [2018-09 Cape York](#), [2019-06 training](#), [2020-10 botanists](#), [2021-04 putting](#)
Lemetre, Christophe [2019-11 drug](#)
Leopold, Matthias [2022-05 CZO](#), [2023-04 real](#)
Lepschi, Brendan [2015-04 Lepschi](#)
Lerebourg, Christophe [2019-08 Copernicus](#), [2021-11 verifying](#)
lesser hair-footed dunnart (*Sminthopsis youngsoni*), interaction with wolf spiders, camera trap studies [2022-12 night](#)
Lesslie, Robert George [2012-08 working](#)
obituary [214-04 Lesslie](#)
Leucozoma, new genus of paper daisy [2023-01 fresh](#)
Leuning, Ray, obituary [2016-03 Leuning](#)
Lewis, Adam [2017-05 data](#), [2021-02 Earth](#)
Lewis, Megan [2017-01 fire](#), [2018-03 map](#), [2019-08 Spatial](#), [2021-08 update](#)
Leys, John [2014-01 windy](#)
L'Herpiniere, Kiara [2019-05 birds eggs](#)
Li, Jinquan [2021-04 predicting](#)
LIDAR data
ForestLAS toolkit [2014-06 value](#)
ground-based, native forest plots, NSW [2022-07 forest](#)
point data cloud [2020-02 ghost](#)
time-series data collection, survey [2021-05 interested](#)
to assess vegetation biomass, carbon inventory and ecosystem monitoring [2015-04 funding](#)
used for visual component of *Ghost Trees* [2020-02 ghost](#), [2023-01 experience](#)
Warra Tall Eucalypt SuperSite, Tas. [2014-06 value](#)
Liddell, Mike [2011-12 SuperSite](#), [2012-09 many](#), [2012-10 bridging](#), [2012-10 licensing](#), [2013-08 like](#), [2014-12 TERN](#), [2016-09 possum](#), [2017-09 camera](#), [2021-11 tour](#), [2022-05 long-term](#), [2024-11 update](#)
visits CERN [2015-02 TERN](#)
LifeWatch ERIC [2019-12 Snowy](#)
Like a plant after rain, TERN–NEON partnership blossoms [2013-08 like](#)
lime deficiencies in agricultural soils [2022-03 Institute](#)
Lin, Hua [2021-01 forests](#)
Lincoln University, NZ
Ashley Dene Research and Development Station [2020-11 Ashley](#)

researchers [2019-11 Manaaki](#)
Lindenmayer, David [2012-07 standardising](#), [2013-07 tall](#), [2013-11 plot](#), [2014-02 landmark](#),
[2014-02 wake-up](#), [2014-12 research](#), [2017-04 farms](#), [2017-07 responsible](#)
finalist in 2011's Eureka Awards [2011-09 Eureka](#)
linear infrastructure, impact on flow and distribution of water [2019-02 Raiter](#)
Lintermans, Mark [2020-05 Canberra](#)
Listen up: new technologies for sound biodiversity monitoring [2017-05 sound](#)
Litchfield National Park
development as new site in Australian SuperSite Network [2012-07 savanna](#)
fire management [2013-07 NATT](#), [2015-04 ecologically](#)
five-yearly survey [2013-05 collaborative](#)
Litchfield Savanna SuperSite, NT [2012-06 ASN](#), [2014-01 connecting](#)
as global Earth observation environmental monitoring superstar [2021-11 verifying](#)
Australian ingenuity to overcome fire, heat and humidity [2021-11 verifying](#)
Charles Darwin University student training in field work and remote sensing [2013-04](#)
[learners](#), [2013-11 universities](#), [2014-09 nation-wide](#), [2019-10 RIEL](#)
CosmOz sensor installation [2020-02 cosmic](#)
flux tower installed [2014-03 hives](#)
global vegetation health monitoring [2021-11 verifying](#)
sensitive sensors survive bushfires [2018-09 sensitive](#), [2020-01 safeguarding](#)
tea bag monitoring [2016-11 tea](#)
to explain relationship between fire and carbon [2012-07 savanna](#)
vegetation structure and fire dynamics [2013-07 NATT](#)
water stress in Australian forests [2017-11 Peters](#)
Wood Block Decomposition 12 Month Mass Loss Assessment [2019-04 TERN data](#)
lithium, digital soil mapping, Australia [2023-09 predicting](#)
Little Sandy Desert bioregion [2014-07 van Leeuwen](#), [2014-09 collaboration](#)
Live Learning Library (repository of ecological information from The University of
Queensland's Heron Island Research Station) [2017-10 students](#)
Liveability for all on our urban fringes [2020-02 liveability](#)
Living labs on Top End grazing land [2015-09 living](#)
Living on the edge: a continental-scale assessment of forest vulnerability to drought [2021-05](#)
[living](#)
Living Planet Index [2018-06 threatened](#)
Living soils in agriculture [2022-08 living](#)
Llewellyn, Lyndon [2017-05 data](#)
local communities, sustainable development goals [2020-04 Deakin](#)
Local knowledge builds better maps [2013-04 local](#)
Locke, Cooper [2024-09 fostering](#)
Locke, John [2014-12 ACEAS](#)
Loescher, Hank [2016-03 global](#)
Logan River catchment floods
historical photo use [2014-10 photos](#)
visualisation tool use [2013-09 visualising](#), [2014-01 improving](#), [2014-07 Mackenzie](#)
Lohr, Cheryl [2021-09 Centre](#)
London calling: TERN's Earth observation infrastructure on the global stage [2017-04](#)
[London](#)
Long, Bill [2013-04 soil](#)
Long, Suzanne [2014-06 evolution](#)
Long, Zareth [2014-07 van Leeuwen](#)

long-haired rat (*Rattus villosissimus*), boom-and-bust nature, Simpson Desert [2012-09 boom](#)

long-nosed bandicoot (*Perameles nasuta*) [2013-11 plot](#)

Long-term Australian Multi-scale Plot Scheme [2011-09 Eureka](#)
coordinates sub-facilities - AusPlots, LTERN and ASN [2011-09 LAMPS](#)
first meeting of all MSPN facilities [2011-11 first](#)
see also Multi-scale Plot Network (MSPN)

Long-term desert ecology data now openly-available through diverse TERN data infrastructure [2016-03 desert](#)

long-term ecological research
AusLTER Forum, 2018 [2018-12 long-term](#)
in Australia, survey results [2021-07 long-term](#)
plot by plot, research becomes part of the social landscape [2013-11 plot](#)
regeneration of natural arid zone vegetation, Koonamore Vegetation Reserve, SA [2014-02 experience](#), [2015-09 track](#)

Long Term Ecological Research Network (LTERN) [2011-09 LAMPS](#), [2012-12 MSPN](#)
Adelaide office, launches TREND website [2011-10 science](#)
alpine ecosystems [2012-12 MSPN](#), [2013-07 tall](#), [2013-08 Bogong](#), [2014-07 Derrick](#), [2017-06 decades](#)
ANU researcher uses monitoring sites to inspire students [2014-09 Gibbons](#)
as key to sustainable land management in northern Australia [2014-03 modelling](#)
community education [2013-11 plot](#)
Data Portal [2016-03 desert](#)
helps develop Red List of Ecosystems protocols and criteria [2015-12 vision](#)
key to sustainable land management in northern Australia [2014-03 long-term](#)
Mallee Plot Network, ecosystem dynamics studies [2012-09 understanding](#)
mountain ash forests of Victoria's highlands at risk of collapse [2014-12 research](#)
post-graduate research assistance in [2013-11 plot](#)
publications catalogued [2013-06 LTERN](#)
publishes *Biodiversity and Environmental Change: Monitoring, Challenges and Direction* [2015-04 biodiversity](#), [2016-09 global](#)
publishes *Policy Handbook* [2015-04 biodiversity](#)
Simpson Desert sites [2014-05 sample](#)
standardising long-term monitoring of environmental carbon [2012-07 standardising](#)
tropical forest diversity driven by early life-cycle plant development [2015-01 long-term](#)
see also specific LTERN plot networks, e.g. Jervis Bay Booderee National Park Plot Network

Long-term flux data reveals role of ecosystems in climate change management [2022-05 long-term](#)

Long-term Plan for Australian Ecosystem Science *see Foundations for the future: a long-term plan for Australian ecosystem science*

long-term research
in Australia [2018-12 long-term](#)
forum [2018-12 long-term](#)

Long-term research infrastructure facilitates groundbreaking rainforest study [2015-01 long-term](#)

Long-term satellite data for natural resource and land-management [2015-09 satellite](#)

long-tongued striped possum (*Dactylopsila trivirgata*) [2016-09 possum](#)

Longreach Pastoral College, Mitchell Grasslands ecosystem observatory [2019-04 Mitchell](#), [2021-07 Mitchell](#)

Looking at poo to monitor koala populations [2012-09 looking](#)

Looking back at TERN's 2021 webinars [2021-12 looking](#)
Loughborough University, UK [2015-06 cyanobacteria](#)
Louisiana State University [2015-01 long-term](#)
Lovelock, Catherine [2024-09 tidal](#)
Low, Bill [2018-07 Tanami](#)
Low Ecological Services [2018-07 Tanami](#)
Lowe, Andy (Andrew) [2011-10 data](#), [2012-06 share](#), [2012-09 AEKOS](#), [2012-10 discovering](#),
[2012-10 TERN](#), [2013-02 refocus](#), [2014-07 foundations](#), [2016-03 open data](#), [2016-11 open](#),
[2017-12 weeds](#), [2018-07 climate](#), [2021-10 update](#)
 Building a global picture of plant ecological function [2021-07 building](#)
 Cost-effective method of environmental DNA profiling of soil [2021-09 soil](#)
 How do we quantify Australia's ecosystem services? [2021-08 quantify](#)
Lower South East South Australia, as plant biodiversity hotspot [2016-09 biodiversity](#)
LTERN *see* Long Term Ecological Research Network
Lucas, Richard [2012-07 detecting](#), [2016-03 satellite](#), [2016-10 drones](#), [2019-08 mangrove](#)
lucerne, as a means of reducing carbon and nitrogen losses from farms, NZ [2020-11 Ashley](#)
lucerne grazing versus cut-and-carry management, nitrogen and carbon losses, agricultural
 systems, NZ [2019-11 Manaaki](#)
Lucieer, Arko [2013-09 AusCover](#), [2015-02 lasers](#), [2016-10 drones](#)
Luskin, Matthew [2022-08 observing](#), [2024-11 update](#)
Luxton, Sarah [2017-06 ecoEd](#)
Lymburner, Leo [2019-08 mangrove](#)
Lynch, Mervyn [2011-11 hyperspectral](#), [2012-03 workshops](#)
Lyon, Pete [2017-05 data](#)

Ma, Xuanlong [2016-12 drought](#)
Maass, Manuel [2015-02 TERN](#), [2018-12 long-term](#)
Macdonald, Ben [2021-10 getting](#)
Macdonald, Christina [2018-09 Cape York](#), [2019-06 training](#)
Macfarlane, Craig [2018-10 drought](#), [2020-01 safeguarding](#)
MacGillivray, Fran [2013-04 students](#)
MacGregor, Chris [2016-09 Booderee](#)
Mackenzie, Donald 'DJ' [2014-10 photos](#)
 real-time flood visualisation tool to assist Logan River residents [2014-07 Mackenzie](#)

Macquarie University
 climate refugia collaborative study [2015-04 climate](#)
 eMAST hosted at [2012-02 cross-Tasman](#), [2012-03 break](#), [2013-09 beer](#)
 Genes to Geoscience Research Centre [2016-06 Journal](#)
 industry collaboration [2014-11 early](#)
 international collaboration [2015-12 vision](#)
 post-graduate research [2022-07 research](#)
 researchers [2012-07 working](#), [2013-07 agriculture](#), [2014-03 modelling](#), [2016-03 open data](#),
 [2016-10 drones](#), [2017-05 data](#), [2017-09 universal](#), [2019-05 birds eggs](#), [2019-10 pollen](#),
 [2020-08 Aussie](#), [2020-10 hot](#), [2023-12 coastal](#)
 SPEDDEXES collaborative development [2014-08 SPEDDEXES](#)
 use TERN infrastructure, data and research techniques in undergraduate course curriculum
 [2013-11 universities](#)

Maes, Wouter, water-use efficiency of single plants and entire ecosystems [2015-12 Maes](#)
Mahuika, Jenny [2020-11 ESAus20](#)
Maier, Stefan [2012-11 mapping](#), [2012-11 savanna](#), [2013-07 NATT](#), [2013-11 universities](#),

[2017-02 Edwards](#), [2017-05 data](#), [2018-09 sensitive](#), [2021-11 verifying](#)
Making farms “more profitable in every sense” [2017-04 farms](#)
Malcolm, Jazmin [2022-05 update](#)
Malenovsky, Zbyněk [2020-01 prototype](#)
Malik, Arif [2019-04 shaping](#)
Mallee ecosystems, research, measurements and data, Calperum Mallee SuperSite, SA [2020-11 Calperum](#)
Mallee Plot Network, south-west NSW, ecosystem dynamics over the long term [2012-09 understanding](#)
Mallee vegetation
 recovery from 2014 bushfires [2020-11 Calperum](#)
 response to rainfall events when they arrive [2020-11 Calperum](#)
Malone, Brendan [2021-09 accessing](#)
Malthus, Tim [2011-10 ACEAS](#), [2019-04 Mitchell](#), [2021-07 Mitchell](#)
mammal extinctions
 causes, Australia [2012-09 AERA](#)
 northern Australia [2012-09 wave](#)
mammals, Threatened Species Index and management data for 2022 [2023-02 state](#)
Manaaki Whenua – Landcare Research, NZ [2020-11 Ashley](#)
 purpose and research activities [2019-11 Manaaki](#)
Managing data volume and diversity: ASN’s data portal [2012-10 managing](#)
Managing the land of bushfires: Australia’s twenty different “fire countries” [2014-01 managing](#)
mangrove data, to inform national and global policy [2019-07 share](#), [2019-08 mangrove](#)
mangrove dieback, Australia’s northern coast [2018-06 mangrove](#)
mangrove ecosystems, national maps reveal change since 80s [2019-08 mangrove](#)
mangrove observing system [2018-06 mangrove](#), [2019-07 share](#)
Manwurrk Rangers [2014-02 wake-up](#)
Many hands make light work at Robson Creek [2012-09 many](#)
map validation, Geo-Wiki System use [2013-04 local](#)
Mapping fire severity in tropical savannas [2012-11 mapping](#)
Mapping the Top End with an eye to agriculture [2013-07 mapping](#)
Marais, Zara [2020-08 training](#)
Marchin, Renée, snow loss impact on alpine grasslands [2018-10 Marchin](#)
Mariette, Mylene [2020-04 Deakin](#)
Marine Ecology Masters students (University of Western Australia), ecocloud to teach data analysis techniques [2019-04 ecocloud](#)
marine resources dataset [2021-08 quantify](#)
Marnes, Malory [2019-01 mine](#)
Maron, Martine [2011-09 despotic](#)
MARSS (multivariate autoregressive state-space) models, allows users to investigate incomplete datasets caused by missing values [2018-09 incomplete](#)
Marshall, Andy [2021-08 University](#)
Martin, Danni [2015-01 green](#)
Martin, Sheridan [2014-12 practical](#)
Martin-Forés, Irene [2017-12 weeds](#), [2020-11 researcher](#), [2024-09 harmonising](#)
Martin Luther University Halle-Wittenberg (MLU) [2018-12 vegetation](#)
Marxan conservation planning software, and animal tracking [2014-08 facilitating](#), [2015-03 CoESRA](#)
Maslen, Mike [2014-08 national](#)

Mason, Kathy [2022-03 update](#)
Max Planck Institute for Biogeochemistry, Leipzig, Germany [2013-09 beer](#)
May, Lord Robert (Bob) [2013-01 your](#), [2013-02 refocus](#), [2013-02 two](#), [2020-05 update](#)
Mayakaduwege, Sonia [2021-10 monitoring](#)
McAlpine, Clive [2011-10 ACEAS](#), [2012-09 analysis](#), [2012-12 engaging](#)
McArthur Forest Fire Danger Index (FFDI) [2016-03 fire](#)
MCAS-S Data Download Tool [2014-04 fostering](#), [2015-03 MCAS-S](#)
McBratney, Alex [2021-08 update](#), [2023-09 predicting](#)
McBurnie, Lachie [2013-07 tall](#)
McCallum, Kimberley [2013-04 students](#)
McDonald, Kyle [2019-11 biodiversity](#)
McDowell, Bill [2016-03 global](#)
McGrath, James [2020-02 ghost](#), [2023-01 experience](#)
McInerney, Francesca (Cesca) [2014-05 sample](#), [2014-08 Howard](#), [2017-09 sample](#), [2019-02 waxes](#)
McJannet, David [2013-08 cosmic](#)
McKay, Lindley [2013-05 collaborative](#)
McKenzie, Iain [2012-11 helping](#)
McKirdy, Simon [2021-01 Butler](#)
McLeod, Steve [2016-10 drones](#)
McMaster, Max [2023-01 index](#)
McPherson, Hannah [2015-12 catchment](#)
McVicar, Tim [2021-08 actual](#), [2022-05 TERN](#)
Measuring our breathing planet [2017-07 breathing](#)
Measuring vegetation status by photography [2014-10 measuring](#)
Meat and Livestock Australia (MLA) [2014-02 experience](#), [2016-10 online](#), [2021-08 TERN](#)
medical resources dataset [2021-08 quantify](#)
Medlyn, Belinda [2023-01 Oceania](#)
 Chair, TERN Science Advisory Committee [2021-08 update](#)
Michener, Bill [2015-06 DataONE](#)
Medek, Danielle [2013-11 students](#)
Medlyn, Belinda [2012-03 break](#), [2023-12 update](#)
Meissner, Rachel [2013-10 sandplains](#), [2015-02 treasures](#)
Melaleuca forests, carbon sequestration [2019-10 heat](#)
Melbourne Science Hackfest [2016-03 hackathon](#)
Mellar, Tanya [2015-12 catchment](#)
Menzel, Paul [2012-03 workshops](#)
mesopredator release hypothesis [2014-11 mice](#)
Metadata for Australia's ecological plot data [2012-12 accessing](#)
metagenomics [2014-08 creating](#)
Metcalf, Dan [2011-12 SuperSite](#), [2014-01 science](#), [2021-11 delivering](#), [2022-05 update](#), [2022-08 update](#)
methane fluxes, saltmarsh ecosystem, French Island, Vic. [2021-10 French](#)
Metternicht, Graciela [2018-06 mangrove](#), [2019-07 share](#)
Meyer, Wayne [2012-08 imagining](#), [2014-01 TERN](#), [2020-11 Calperum](#), [2022-05 CZO](#)
Michaels, Christine Ellis [2018-07 Tanami](#)
Michener, Bill [2012-05 today](#), [2012-08 eco-informatics](#), [2015-06 DataONE](#)
microbats, identification through sound, database [2023-03 bat](#)
microclimate data, collected at TERN FNQ rainforest monitoring sites [2023-06 TERN](#)
Miech, Ellen, Proteaceae declines on Western Australian islands [2016-12 Miech](#)

Mikaloff Fletcher, Sara [2012-02 cross-Tasman](#)
Miles, Steven [2017-06 map](#)
Millennium Ecosystem Assessment [2013-02 refocus](#)
Miller, Adam [2021-04 Research](#)
Millions of bits of data paint a global picture of changing climate [2012-12 millions](#)
Millstream Chichester National Park, AusPlot ecosystem monitoring site [2015-06 Pilbara](#)
Milne, Peter [2015-12 catchment](#)
Milne, Sue [2015-12 catchment](#)
mine closure and relinquishment [2021-01 Butler](#)
mine rehabilitation assessments, monitoring protocol, Ranger uranium mine [2019-01 mine](#)
mineral deposits, stygofauna, DNA barcoding use [2012-02 creatures](#)
Mirti, Michael [2018-12 long-term](#)
Mitchell, Patrick [2013-05 extreme](#)
Mitchell grass, impact of heavy grazing on [2014-02 experience](#)
Mitchell Grass Downs bioregion, surveys [2014-03 survey](#)
Mitchell Grass Rangeland SuperSite [2021-07 Mitchell](#)
 CosmOz sensor installation [2020-02 cosmic](#)
 Longreach Pastoral College, Qld [2019-04 Mitchell](#), [2021-07 Mitchell](#)
 on-ground validation for Earth Observation data [2021-07 Mitchell](#)
Mitchell grass rangelands [2019-04 Mitchell](#), [2021-07 Mitchell](#)
Mitchell Grasslands ecosystem observatory takes grassroots sky-high [2019-04 Mitchell](#)
mobile apps
 for citizen science use [2012-10 ecology](#)
 open up brave new worlds [2012-10 mobile](#)
MODIS satellite imagery [2012-11 savanna](#), [2014-07 Rickards](#), [2017-07 Potgieter](#)
 Enhanced Vegetation Index (EVI) data [2014-11 satellite](#)
 fire intensity and environmental variables, tropical savannas [2012-11 characterising](#)
 fire severity North Australia coverage product [2012-11 mapping](#), [2017-02 Edwards](#)
 groundcover mapping data [2012-08 working](#)
MODSIM2023, Darwin [2023-06 update](#)
Moinet, Gebriel [2019-11 Manaaki](#)
molecular fossil as record of large-scale ecosystem structure [2019-02 waxes](#)
Mollicone, Danilo [2016-06 FAO](#), [2017-05 forests](#)
Moloney, Glenn [2017-08 EcoCloud](#)
Monash University
 Coastal Research Group [2021-10 French](#)
 eResearch Centre [2012-10 coping](#)
 post-graduate research [2013-09 pressures](#), [2014-03 modelling](#), [2014-10 Moore](#), [2016-06 smile](#), [2021-10 French](#)
 researchers [2013-07 NATT](#), [2014-01 connecting](#)
 School of Earth, Atmosphere and Environment students, digital soil maps use as staycation field trip [2021-09 TERN](#)
Monitoring Australia's biodiverse west [2020-10 monitoring](#)
Monitoring Australia's life-sustaining 'Critical Zone' resources [2021-01 monitoring](#)
Monitoring, Evaluation and Research (MER) network
 Fire and Weeds Pilot Network [2021-10 reviewing](#)
 partnerships: a nexus of science policy and practice [2021-10 reviewing](#)
 reviewing post-fire recovery and ecological management effectiveness [2021-10 reviewing](#)
Monitoring protocol for mine rehabilitation assessments [2019-01 mine](#)
Monitoring the impact of bushfires on soils [2021-10 monitoring](#)

Monitoring the success of rangelands management [2012-08 rangelands](#)
Monitoring water quality in urbanised catchments [2012-08 water](#)
Monitoring the world's 3rd largest tropical rainforest [2019-09 rainforest](#)
Monro, Anna [2018-11 weed](#)
Moore, Anna [2021-11 ANU](#)
Moore, Caitlin [2014-03 modelling](#), [2016-06 smile](#), [2019-09 camera](#), [2021-06 Boyagin](#), [2022-05 long-term](#)
phenocams for monitoring vegetation phenology in Australian ecosystems [2014-10 Moore](#)
A more accurate carbon budget for Australia [2013-01 accurate](#)
More than just beer and waffles: Germany and Belgium offer ecosystems collaboration [2013-09 beer](#)
More than the sum of the parts: collaboration and synthesis in ecosystem science [2012-06 more](#)
Moreton Bay, Qld,
flood dynamics [2014-01 improving](#)
VMS installation [2024-01 extending](#)
Morgan, John [2017-06 decades](#)
Moriarty, Trisha [2019-06 training](#)
Moritz, Craig [2012-06 new](#)
Morón, Sara [2019-12 systems](#)
Morris, Beryl [2019-12 Snowy](#)
awarded Australian Academy of Sciences conference grant with AuScope for Integrated Earth 2023 [2022-12 Integrated](#)
Director's update [2020-03 update](#), [2020-04 update](#), [2020-05 update](#), [2020-06 update](#), [2020-07 update](#), [2020-08 update](#), [2020-09 update](#), [2020-10 update](#), [2020-11 update](#), [2021-02 update](#), [2021-03 update](#), [2021-04 update](#), [2021-05 update](#), [2021-06 update](#), [2021-07 update](#), [2021-08 update](#), [2021-09 update](#), [2021-10 update](#), [2021-11 update](#), [2021-12 update](#), [2022-03 update](#), [2022-05 update](#), [2022-07 update](#), [2022-08 update](#), [2022-12 update](#), [2023-01 update](#), [2023-02 update](#), [2023-03 update](#), [2023-04 update](#), [2023-06 update](#), [2023-12 update](#), [2024-07 update](#), [2024-09 update](#), [2024-11 update](#), [2024-12 update](#)
on Critical Zone Observatory (CZO) strategy [2019-07 treetop](#)
on TERN collaboration with GeoNadir to make national research drone data available to the public [2024-02 national](#)
on TERN collaboration with NASA [2018-06 space](#)
on the application of SET-MH data for coastal lowland responses to sea level rise [2023-12 coastal](#)
vale Dr Peter Woodgate [2023-01 vale](#)
welcomes RICF finding [2020-06 Queensland](#), [2020-06 update](#)
Morrison-Saunders, Angus [2020-09 Centre](#)
Morton, Steve
as Ecosystem Science Council member [2015-04 Council](#)
as inaugural chair of TERN's Science Advisory Council [2021-08 update](#)
the best of times and the worst of times in ecology [2012-04 best](#)
Mosley, Luke [2021-10 monitoring](#), [2022-03 Institute](#)
Mount Field National Park, subalpine healthlands, AIAS field trip [2024-11 alpine](#)
Mount Isa Inlier bioregion, AusPlots Rangelands survey [2013-07 AusPlots](#)
Mountain Ash ecosystem [2016-09 global](#)
Mountain Ash forests
as case study for CoESRA [2014-08 facilitating](#), [2015-03 CoESRA](#)

bushfire impact on how forest ecosystems store, move and use water [2023-12 bushfire](#)
IUCN ecosystem risk assessment [2014-08 facilitating](#), [2014-12 research](#), [2015-03](#)
[CoESRA](#), [2015-12 vision](#), [2019-01 virtual](#)
volunteers monitoring long-term survey plots [2013-07 tall](#)
mountain pygmy possum (*Burramys parvus*) [2012-08 sustaining](#), [2017-06 decades](#)
Mulcahy, Liam [2014-09 collaboration](#)
mulga (*Acacia aneura*), die back following drought, Alice Mulga SuperSite [2020-09 Alice](#)
mulga-line transect, initial monitoring, WA [2022-12 new](#)
mulga woodlands, rainfall and ecosystem switch from carbon source to carbon sink [2019-12](#)
[sink](#)
Mulligan's Flat–Goorooyarro Woodland Experiment, ACT [2014-02 betting](#)
Mulligan's Flat Nature Reserve, ACT [2014-10 echidna](#)
Multi-Scale Plot Network (MSPN) [2012-04 focus](#), [2012-10 eclipsed](#), [2012-10 TERN](#), [2013-](#)
[02 TERN](#), [2013-06 soils](#)
comprehensive monitoring for Australia's ecosystems [2012-12 MSPN](#)
ecosystem workshop, Barossa Valley, SA [2012-09 networked](#)
first meeting of all sub-facility members [2011-11 first](#)
lead by James Cook University [2011-12 SuperSite](#)
new operating structure [2012-06 nuances](#)
sub-facilities [2012-06 nuances](#), [2012-12 MSPN](#)
Mungalla Station, north Qld, installation of Rod Surface Elevation Tables to expand OzSET
network [2024-12 mangrove](#)
Munroe, Samantha [2019-06 training](#), [2020-11 researcher](#), [2021-04 photosynthetic](#)
A vegetation carbon isoscape for Australia [2022-08 vegetation](#)
Develops and presents data training video on TERN ausplotsR package [2021-12 update](#)
named STEM Superstar [2020-12 STEM](#)
Munur, Rose [2014-12 ACEAS](#)
Muraoka, Hiroyuki [2016-03 global](#), [2018-08 Top End](#)
Murdoch University [2018-10 drought](#)
Harry Butler Institute [2021-01 Butler](#)
researchers [2012-12 restoration](#)
Murphy, Brett [2011-12 wild](#), [2012-07 standardising](#), [2012-11 Australian](#)
Murphy, David [2019-07 observatory](#)
Murphy, Nick [2021-04 Research](#)
Murphy, Steven [2017-06 map](#)
Murray Darling Basin, widespread fish deaths [2020-01 Institute](#)
Murray Darling Basin Authority, Technical Advisory Group [2020-01 Institute](#)
musicality of nature [2020-02 ghost](#)
Mynott, Julia [2021-04 Research](#)

Nanangroe Plantation Plot Network, NSW [2013-11 plot](#), [2017-04 farms](#)
narrow-leaf hop bush (*Dodonaea viscosa* subsp. *angustissima*)
adaptation to changing climate [2012-09 plants](#), [2018-07 climate](#)
leaf trait associations [2018-09 data](#)

NASA
ECOSTRESS mission uses TERN data [2016-11 NASA](#), [2018-06 space](#), [2018-07 TERN](#),
[2021-07 satellite](#)
Global Ecosystem Dynamics Investigation (GEDI) [2018-08 laser](#), [2021-07 satellite](#)
Goddard Earth Science Division [2016-12 drought](#)
Jet Propulsion Laboratory [2016-11 NASA](#), [2018-07 TERN](#)

partners with TERN to map global carbon [2015-02 NASA](#)
partnership with TERN [2018-06 space](#), [2018-07 TERN](#), [2019-12 Snowy](#)
satellite systems to detect SIF [2020-01 prototype](#)
TERN's data for satellite calibration-validation [2021-07 satellite](#)
TERN's role in soil moisture active passive (SMAP) mission [2016-11 NASA](#), [2018-07 TERN](#)
workshop on using VIIRS data from new Earth monitoring satellite and sensor system [2011-12 workshop](#)
NASA-ISRO Synthetic Aperture Radar (NISAR) space-borne instrument, radaring the Earth's most complex processes [2018-08 laser](#), [2021-07 satellite](#)
National Australia Bank employees
collaborative volunteers at Calperum Mallee SuperSite [2015-09 NAB](#)
national biodiversity assessments [2012-12 ACEAS](#)
national biodiversity hotspots
Mount Lofty Ranges/Kangaroo Island, SA [2016-09 biodiversity](#)
Tasmanian Midlands [2020-04 grass](#)
National Biodiversity Network (NBN) [2013-02 refocus](#)
National Biomass Library [2016-03 satellite](#)
National Biomass Map [2016-03 satellite](#)
National Centre for Atmospheric Research (NCAR) [2014-04 sky](#), [2014-07 Hoar](#)
Data Assimilation Research Testbed (DART) [2014-04 sky](#), [2014-07 Hoar](#)
National Centre for Groundwater Research and Training [2017-08 Earth](#)
National Centre for Medium Range Weather Forecasting (India) [2020-02 Centre](#)
National Collaborative Research Infrastructure Strategy *see* NCRIS
National Computational Infrastructure (NCI) [2012-07 working](#), [2015-03 MCAS-S](#), [2015-04 climate](#), [2016-03 fire](#), [2017-08 EcoCloud](#)
collaboration with NEON [2013-08 like](#)
e-MAST collaboration [2012-12 predicting](#), [2014-03 modelling](#), [2014-07 Hoar](#)
for integration and analysis of national data [2020-03 environment](#)
holds AusCover dust and ground cover data [2014-01 windy](#)
SPEDDEXES collaborative development [2014-04 sky](#), [2014-08 SPEDDEXES](#)
National Earth and Environment Scientific Facilities Forum (NEESFF) [2023-03 update](#)
National Ecological Observatory Network (NEON), USA [2013-12 scaling](#), [2014-04 sky](#), [2014-07 Hoar](#), [2016-03 global](#), [2016-11 NASA](#)
AccelNet Award enables global drought research [2024-07 network](#)
cross-continental monitoring protocol development with ASN [2012-10 bridging](#)
plenary speaker at TERN Symposium 2013 [2013-01 your](#), [2013-02 access](#)
strategic plan for comment [2011-08 NEON](#)
TERN formal agreement with [2013-02 two](#)
TERN signs MoU with [2013-08 like](#)
National Ecosystem Assessment System for Australia (NEASA) project [2024-12 landscapes](#)
National ecosystem surveillance [2014-08 national](#)
national environmental data repositories [2011-08 bringing](#)
national environmental indicators
2019 data [2020-03 environment](#)
change from 2017 [2019-05 environment](#)
mid-2020 update [2020-08 Environment](#)
National Environmental Prediction System (NEPS) [2020-10 TERN](#)
draft Implementation Plan submitted to Government by Expert Panel [2020-08 update](#), [2020-11 investment](#)

Research Infrastructure Investment Plan Scoping Study [2018-07 climate](#), [2019-05 building](#),
close to completion [2020-11 investment](#)
nation-wide consultations and submissions [2019-10 share](#), [2019-11 ESAus19](#)
proposed name change to Australian Environmental Futures (AEF) [2020-05 scoping](#)
recent consultation events, key findings and final tasks [2020-05 scoping](#)
System Design document [2019-10 share](#)
TERN contribution to [2020-10 TERN](#)

National Environmental Research Program (NERP) [2014-03 helping](#), [2014-03 integrated](#),
[2014-05 gourmet](#), [2014-08 national](#)
Emerging Priority projects [2014-08 national](#)
Environmental Decisions Hub [2014-04 fostering](#)
funding [2014-04 fostering](#)
TERN contribution to [2014-04 fostering](#)

National Environmental Science Programme (NESP) [2015-12 vision](#)
critical infrastructure for [2015-01 critical](#)
Earth Systems Hub [2015-01 critical](#), [2016-06 flux](#)
Resilient Landscapes Hub [2020-08 update](#)
Threatened Species Recovery Hub [2015-01 critical](#), [2016-09 Booderee](#), [2018-06 threatened](#)

National eResearch Collaboration Tools and Resources project (NeCTAR) [2014-04 NCRIS](#),
[2014-08 facilitating](#), [2017-06 ecoEd](#), [2017-08 EcoCloud](#)
funds new eResearch tool called SHaRED [2012-06 share](#)

National Forest Inventory (NFI) project, Papua New Guinea [2019-09 rainforest](#)

National Geochemical Survey of Australia, dataset, to develop digital soil map for lithium
[2023-09 predicting](#)

National Institute of Ecology, Korea, signs MoU with University of Queensland [2019-03
Asia](#)

National Institute of Water and Atmospheric Research, New Zealand [2012-02 cross-Tasman](#)

National Landcare Programme [2018-12 dust](#)
A national mangrove observing system [2018-06 mangrove](#)

National Marine Turtle Database (NMTD) [2012-12 improving](#), [2013-01 new](#)
national priority species under Commonwealth's *Threatened Species Strategy* [2023-02 state](#)

National research drone data available to the public [2024-02 national](#)

national research infrastructure (NRI)
Australian investment in [2021-09 pillars](#)
cost-benefit analysis [2022-03 update](#)
safeguarding from extreme events [2020-01 safeguarding](#)
streamlining access to integrated data for State of the Environment reporting and other
assessments [2021-11 delivering](#)

National Research Infrastructure Advisory Group, meets TERN, IMOS and ARDC Directors
[2023-03 update](#)

National Research Infrastructure Roadmap, 2016 [2018-07 climate](#), [2019-10 share](#)
Capability Issues Paper, TERN's Roadmap submission to [2016-09 ecosystems](#)
Government response to with Research Infrastructure Investment Plan [2021-09 pillars](#)

National Research Infrastructure Roadmap, 2021 [2020-08 update](#), [2020-11 investment](#), [2021-
02 update](#), [2021-04 update](#), [2021-10 update](#)
as pillars of Australia's research system [2021-09 pillars](#)
draft Roadmap for comment [2021-11 update](#), [2022-03 update](#)
Expert Working Group members [2021-05 update](#)
'exposure draft' [2021-09 update](#)
funding for TERN and other-NCRIS grant-funded projects [2022-05 update](#)

grant application for NCRIS funding for TERN [2023-03 update](#)
step change to create world-leading environmental and climate infrastructure [2022-05 update](#), [2023-03 update](#)
national-scale environmental information, access to [2017-03 pulse](#)
National Science and Research Priorities, released [2024-09 update](#)
National Science Foundation (NSF) [2015-01 long-term](#), [2015-04 funding](#)
National Science Week, 2022, TERN celebrates with NCRIS collaboration [2022-08 TERN](#)
National Sea Change Taskforce [2012-12 improving](#)
National Socio-environmental Synthesis Center (SESYNC) [2013-12 fun](#)
national soil map, from TERN [2022-03 soil](#)
national soil moisture sensing network [2024-11 update](#)
National Species Lists (NSL) [2012-10 AEKOS](#)
National Taiwan University [2017-04 soil](#)
national terrestrial ecosystems sample library, housed at University of Adelaide's Waite Campus [2017-09 sample](#)
national threatened species database [2018-06 threatened](#)
National Threatened Species Day [2021-09 Australians](#)
National Vegetation Information System (NVIS) [2018-03 map](#)
major vegetation groups, TERN ecosystem survey sites [2018-09 Cape York](#)
Nation-wide SuperSites support next crop of ecosystem scientists [2014-09 nation-wide](#)
native bees (*Lipotriches flavoviridus*) [2013-11 plot](#)
native grasslands, fertiliser addition and the soil carbon equation [2020-09 changing](#)
native mammals, impact of flooding rains and erratic greening, arid ecosystems [2014-01 erratic](#)
native plant biodiversity, weed impacts, grassland ecosystems [2017-12 weeds](#)
native stingless bees, as agricultural crop pollinators [2020-03 environmental](#)
NATT *see* North Australian Tropical Transect
Natural Environment Research Council (UK) [2015-06 cyanobacteria](#)
natural heritage, and cultural heritage [2011-10 cultural](#)
natural heritage assessment, integrating measures of phylogenetic and taxonomic diversity and endemism [2012-06 new](#)
Natural Resource Management (NRM) regions
AusCover long-term satellite data for NRM [2015-09 satellite](#)
decision making, Soil and Landscape Grid of Australia use [2019-03 R package](#)
MER network to measure effectiveness of post-fire recovery and ecological management [2021-10 reviewing](#)
Natural Resources Access Regulator (NRAR), NSW, uses TERN's AET data to ensure compliant water usage [2022-05 TERN](#)
Nature
study data from CSIRO's long-term rainforest data set deposited into TERN's repository [2022-05 climate](#)
TERN as recommended depository for ecology data deposition [2021-07 Nature](#)
The Nature Conservancy [2012-11 savanna](#), [2014-03 cyclones](#)
'Nature as Data', art-science interface, *Ghost Trees* [2020-02 ghost](#), [2023-01 experience](#)
Navarro, Laetitia [2019-12 Snowy](#)
NCRIS (National Collaborative Research Infrastructure Strategy)
ARC CoE heavy reliance on NCRIS infrastructure [2017-10 facilitating](#)
Canberra Symposium celebrates 10th anniversary of Australian investment in environmental research infrastructure [2017-04 NCRIS](#), [2017-05 data](#)
collaborations with [2015-12 vision](#)

creative hackathon solutions demonstrate value of NCRIS and CSIRO data [2016-03 hackathon](#)
direct benefit to Australian society and the environment of investment in [2022-03 update](#)
funding [2013-06 data](#), [2018-01 investment](#), [2020-10 update](#)
funding/investment in TERN [2012-12 TERN](#), [2014-06 TERN](#), [2017-05 data](#), [2018-01 investment](#), [2023-01 update](#), [2023-02 update](#), [2023-03 update](#)
Groundwater database [2017-08 Earth](#)
Groundwater program [2019-07 treetop](#)
impact of NCRIS-funded projects [2017-11 raptors](#)
multiplies power of research [2014-04 NCRIS](#)
NCRIS II (EIF SuperScience) Final Report [2015-12 vision](#)
NSW Government co-invests to track ecosystem change [2016-09 NSW](#)
partners, EcoAssets project [2021-11 delivering](#)
partners work together to build Soils-to-Satellites tool [2012-08 NCRIS](#)
partnerships developing complementary data services [2016-06 NCRIS](#)
projects funded [2014-08 creating](#)
research data, recognised at annual GovHack awards [2016-11 open](#)
TERN celebrates National Science Week 2022 with NCRIS collaboration [2022-08 TERN](#)
user satisfaction survey [2019-06 surveys](#)
NeCTAR *see* National eResearch Collaboration Tools and Resources project (NeCTAR)
Need soil moisture data? Try a cosmic ray soil moisture sensor [2020-06 soil](#)
Neldner, John [2017-06 map](#)
Nelson, David [2016-03 desert](#)
NEON *see* National Ecological Observatory Network
nesting boxes, camera monitoring, striped possums [2016-09 possum](#)
net biome production [2013-02 carbon](#)
net ecosystem exchange (NEE)
flux tower measurement of carbon dioxide [2023-04 what](#)
QA/QC, gap-filled datasets [2022-03 flux](#)
net primary production (NPP) [2012-11 Australian](#), [2012-12 Indigenous](#), [2013-01 accurate](#),
[2013-02 carbon](#)
Nethery, Matt [2015-03 MCAS-S](#)
Nevill, Paul [2021-11 next-gen](#)
A new approach to assessing natural heritage [2012-06 new](#)
New biodiversity transects established by TERN in Western Australia [2022-12 new](#)
New Data! The photosynthetic pathway of all plant species in the TERN plot network [2021-04 photosynthetic](#)
New ecosystem monitoring plots established to address biodiversity threats in WA's Pilbara [2015-06 Pilbara](#)
A new era in biodiversity science: linking integrated space-based and in-situ observations [2019-11 biodiversity](#)
New livelihoods from traditional lands in Arafura region [2012-05 new](#)
New maps reveal mangrove change since 80s [2019-08 mangrove](#)
New methods for measuring and validating soil carbon sequestration [2021-06 measuring](#)
New nation-wide environmental condition monitoring protocols put to the test [2015-06 condition](#)
A new port of call for turtle data [2013-01 new](#)
New research predicts collapse of mountain ash ecosystem [2014-12 research](#)
New skills and practical inspiration: TERN plot-based ecological monitoring training a big success [2019-06 training](#)

New soil erosion research improves bushfire recovery [2020-04 erosion](#)
New South Wales, ecosystem change monitoring [2016-09 NSW](#)
New tools to improve state fire mapping [2017-01 fire](#)
New Zealand Ecological Society
EcoTas 2013 conference, Auckland, NZ [2013-12 call](#), [2013-12 collaborative](#)
Newmont Mining Corporation [2018-07 Tanami](#)
Newnham, Glenn [2021-07 all-weather](#)
Newport, Karl [2015-06 condition](#)
Newton, Isaac, and the Great Plague of London [2020-03 update](#)
Next-gen DNA sequencing for improved environmental impact assessment [2021-11 next-gen](#)
Ngadju kala: fire management in the Great Western Woodlands [2014-01 Ngadju](#)
Nicholas, Isabella [2013-11 future](#)
Nichols, Cassandra [2017-01 books](#)
Nicholson, Jaylen [2019-01 mine](#)
Nicotra, Adrienne [2021-08 update](#), [2023-01 partners](#), [2023-01 update](#)
Night of the hunter: using cameras to quantify nocturnal activity in desert spiders [2022-12 night](#)
Night Parrot Recovery Team website [2017-07 responsible](#)
Nimmo, Dale [2020-01 Institute](#)
Nine Points South [2011-12 data](#)
90-years of open-data track change in rangeland ecosystem [2015-09 track](#)
Nitmiluk National Park
fire management [2015-04 ecologically](#)
five-yearly survey [2013-05 collaborative](#)
nitrogen-fixing bacteria, role in nutrient cycling [2022-08 living](#)
Noble, Alan [2013-01 your](#), [2013-02 challenge](#), [2013-03 where](#)
The acorn and the oak: growing high-tech nation from a primary interest in science [2013-01 acorn](#)
NOBURN – citizen science app for people living in fire-prone areas [2021-08 University](#)
Normalised Difference Vegetation Index (NDVI) [2012-07 detecting](#), [2015-01 green](#)
North Australian Fire Information (NAFI) [2012-11 characterising](#), [2014-07 Jacklyn](#)
North Australian Indigenous Land and Sea Management Alliance (NAILSMA) [2012-05 new](#), [2012-12 Indigenous](#)
North Australian Pastoral Company (NAPCO) [2014-03 survey](#)
North Australian Tropical Transect (NATT) [2014-03 northern](#), [2015-12 Maes](#), [2019-01 mine](#), [2019-10 RIEL](#)
as the backbone of NT research [2013-07 NATT](#)
hosts Fulbright Fellow Israel Del Toro to study ant populations [2012-09 infrastructure](#)
impact of cattle grazing on ants in tropical savannas [2015-09 living](#)
north-east Victoria, TERN infrastructure contributing to industry sustainability [2013-07 tall](#)
Northcote, Bruce [2023-03 update](#)
Northern Arizona University [2021-03 ecosystem](#)
northern Australia
Australian SuperSite Network (ASN) [2014-03 hives](#)
groundwater acidity [2014-03 plumbing](#), [2015-05 plumbing](#)
improving the success of investment in northern Australia through better soil information [2014-03 improving](#)
integrated catchment to coast planning [2014-03 integrated](#)
long-term research key to sustainable land management [2014-03 long-term](#)
mammal extinctions, comparison with southern Australia [2012-09 wave](#)

savanna ecosystem surveys [2014-03 survey](#)
understanding cyclones and fires using satellites [2014-03 cyclones](#)
Northern Australia and Rangelands Fire Information (NAFI) [2017-01 fire](#), [2017-02 Edwards](#)
Northern Territory's Department of Land Resource Management [2013-05 collaborative](#),
[2014-03 improving](#), [2015-04 ecologically](#)
NovasAR-1 satellite-collected radar images of the Australian continent [2021-07 all-weather](#)
Novel forest research using TERN set to improve ecosystem-climate modelling [2022-03](#)
[novel](#)
NRM Spatial Hub [2016-10 online](#)
NSW Department of Planning, Industry and Environment (DPIE) [2020-04 erosion](#)
NSW Department of Primary Industries [2016-10 drones](#), [2022-07 forest](#)
NSW Government, co-invests in NCRIS to track ecosystem change [2016-09 NSW](#)
NSW National Parks and Wildlife Service [2016-10 drones](#)
NSW Office of Environment and Heritage [2012-09 understanding](#), [2013-02 TERN](#), [2015-04](#)
[climate](#), [2016-03 fire](#), [2017-05 data](#), [2017-07 responsible](#)
NSW Rural Fire Service
use of erosion risk maps [2020-04 erosion](#)
vegetation data analysis and fire spread [2020-02 Centre](#)
Nuances of a network: a new structure for the Multi-Scale Plot Network [2012-06 nuances](#)
nutrient addition, impact of climate change on, in managed grasslands [2020-09 changing](#)
nutrient cycling dataset [2021-08 quantify](#)
nutrient dynamics prediction and regulation in natural and agricultural environments [2021-04](#)
[predicting](#)
Nutrient Network experiment [2016-11 tea](#), [2019-06 barometers](#), [2020-09 changing](#)

obituaries

Fox, Peter [2021-04 update](#)
Griffiths, Ian [2021-09 update](#)
Haverd, Vanessa [2021-02 update](#)
Lesslie, Robert George [214-04 Lesslie](#)
Leuning, Ray [2016-03 Leuning](#)
Scholes, Bob [2021-04 update](#)
Specht, Raymond [2021-02 update](#)
O'Brien, Lauren [2019-03 R package](#)
Observing Environmental Change in Australia – conversations for sustainability (TERN)
[2019-05 observing](#)
Observing vertebrate wildlife using camera trapping [2022-08 observing](#)
O'Callaghan, Mary [2023-06 soil](#)
Oceania Ecological Forecasting Initiative (OEFI) [2023-01 Oceania](#)
Ochoa-Hueso, Raúl [2020-09 changing](#)
Of mice and dogs [2014-11 mice](#)
O'Grady, Anthony [2013-05 extreme](#)
Old field restoration improves biodiversity and soils and large parts of Australia have huge
potential to be remediated [2012-12 restoration](#)
Oliveira, Sofia [2012-11 characterising](#)
Oliver, Paul [2020-03 environmental](#)
on-ground laser scanners (terrestrial LiDAR), installed at WA SuperSites [2020-10 monitoring](#)
On the road talking data infrastructure [2014-06 road](#)
100 years of platypus survey data now available via AEKOS [2015-06 platypus](#)
O'Neill, Sally [2014-12 practical](#), [2015-06 condition](#), [2019-06 training](#), [2022-07 pest](#), [2022-08](#)

[web-based](#)

Ong, Cindy [2019-08 Copernicus](#), [2020-01 safeguarding](#)
Online data and tools transforming farm planning and monitoring [2016-10 online](#)
online teaching, secondary education sector use of TERN data and data tools [2020-04 update](#)
open data [2013-01 acorn](#), [2013-02 challenge](#)
drives innovation [2016-11 open](#)
revolution, panel discussion, ESA symposium [2016-03 open data](#)
Open Foris' Collect Earth software [2020-07 collect](#)
Opportunity awaits [2013-10 delivering](#)
orchids
flowering time of [2012-09 plants](#), [2013-02 TERN](#), [2013-04 students](#)
sightings by citizen scientists, using Wild Orchid Watch (WOW) app [2022-03 citizen](#)
O'Reagain, Peter [2021-08 TERN](#)
O'Reilly-Wapstra, Julianne [2020-08 training](#)
Osborn, TGB [2015-09 track](#)
ospreys [2017-11 raptors](#)
camera monitoring [2016-09 possum](#)
Ostendorf, Bertram [2017-06 ecoEd](#), [2019-01 ecoEd](#), [2019-08 Spatial](#)
Owen Springs Reserve, NT
AusPlots rangelands survey protocol training [2014-12 practical](#)
TERN ecosystem surveillance plots surveyed for fourth time [2019-07 observatory](#)
Owens, Jo [2020-08 update](#), [2021-03 paddock](#)
OzCoasts [2012-10 coastal](#)
OzCZO (Australian CZO network)
collaboration between UWA, AuScope and Sensoil [2023-04 real](#)
collaborative development [2021-01 monitoring](#)
Heat Needle Project: an AuScope-TERN-OZCZO joint venture [2024-11 heat](#)
sensor installation, Calperum Station, SA [2022-05 CZO](#)
Vadose-zone Monitoring System installed at two sites in Queensland and one in South
Australia [2024-01 extending](#)
OzFlux - AsiaFlux Joint Conference (OzFlux 18), Darwin, August 2018 [2018-08 Top End](#)
OzFlux Conference: Celebrating 20 years of the community measuring our breathing
ecosystems [2020-06 OzFlux](#), [2020-07 update](#)
OzFlux network [2012-04 focus](#), [2012-10 TERN](#), [2013-02 carbon](#), [2014-01 watchful](#), [2016-06](#)
[FAO](#), [2016-10 Haverd](#), [2016-11 NASA](#), [2016-12 drought](#), [2017-01 angry](#), [2017-08 Earth](#),
[2017-10 facilitating](#), [2018-07 stepping](#), [2023-12 TERN](#)
acidic groundwater and carbon cycle, tropical savannas [2014-03 plumbing](#), [2015-05](#)
[plumbing](#)
Australian flux data in global demand [2016-03 flux](#)
benefits of 'soft' research infrastructure [2012-06 benefits](#)
collecting micrometeorological data on energy, water and carbon affecting ecosystems and
fuelling global climate change [2012-12 millions](#)
compendium of research using TERN OzFlux
published in special issue of *Agricultural and Forest Meteorology* [2013-12 several](#)
published in special issue of *Biogeosciences* [2016-06 flux](#), [2016-06 smile](#)
data in high demand [2020-06 OzFlux](#)
data path [2015-03 OZFluxQC](#)
Data Portal [2012-10 coping](#)
declining watertables, Perth [2013-09 flux](#), [2020-05 Gingin](#)
develops OzFluxQC data processing tool [2015-03 OZFluxQC](#)

for understanding environmental change [2020-06 OzFlux](#)
French Island, Vic. site [2021-10 French](#)
functions and data collection [2012-10 coping](#)
heatwave investigations [2014-01 hot](#)
joint discussions with NEON and ASN [2013-08 like](#)
monitoring agricultural soils for storage of carbon [2023-04 neutral](#)
ongoing roles for flux monitoring [2022-05 long-term](#)
provides ecosystem carbon and water dynamics data across Australia and New Zealand
[2012-07 big](#)
Ray Leuning's role in founding [2016-03 Leuning](#)
TERN's contribution to FluxNet [2016-03 flux](#), [2017-07 breathing](#), [2019-01 valuable](#)
to develop new methods of validating carbon sequestration models and increase soil carbon
in grazing lands [2021-06 measuring](#)
tower at former Credo Station, near Kalgoorlie [2011-11 woodlands](#)
tower burnt but survives, Calperum Mallee SuperSite [2014-01 TERN](#)
updated data from 33 land-atmosphere flux stations now available [2022-03 flux](#)
what is it? [2022-05 long-term](#)
workshop on processing data from flux stations [2012-04 workshop](#)
OzFluxQC flux data processing tool [2015-03 OZFluxQC](#)
Ozius Biome, commercial remote-sensing environmental management product [2022-05](#)
[commercial](#)
ozone hole [2020-03 environment](#)
OzSET, Surface Elevation Tables (SETs) to monitor sea-level changes in vegetated coastal
wetlands [2024-12 mangrove](#)
OzWALD model-data assimilation system [2020-03 environment](#)

Paddock to reef: Australia's newest monitoring SuperSite [2021-03 paddock](#)
Paddock Watch [2017-07 Potgieter](#)
Paget, Matt [2012-11 helping](#), [2014-08 SPEDDEXES](#)
palaeoclimate research, leaf waxes in soil samples as basis of vegetation cover [2014-08](#)
[Howard](#), [2019-02 waxes](#)
pale field rat (*Rattis tunneyi*) [2012-09 wave](#)
Papale, Danio [2017-07 breathing](#)
paper daisies (*Xerochrysum*), taxonomy [2023-01 fresh](#)
Papua New Guinea
National Forest Inventory (NFI) project [2019-09 rainforest](#)
payments for environmental services to Indigenous peoples [2012-12 Indigenous](#)
parakeelya (*Calandrinia balonensis*) [2013-11 plot](#)
Parker, Amy [2021-07 all-weather](#)
Parker, John [2012-06 more](#)
Parkhurst, Tina [2012-12 restoration](#)
Parks Australia [2016-09 Booderee](#)
Biodiversity Science Section [2014-07 Goumas](#), [2018-11 weed](#)
researchers [2017-07 Kakadu](#)
submits environmental data to ÆKOS [2014-04 NCRIS](#), [2014-05 SHaRED](#), [2014-07](#)
[Goumas](#)
Parks Victoria [2021-10 French](#)
pastoralists, and researchers [2013-11 plot](#)
pasture modelling and safe stocking rates, Qld [2021-03 paddock](#)
pasture types, and net greenhouse emissions, dairy regions, NZ [2020-11 Ashley](#)

patents, citing TERN publications [2019-03 publications](#)
Patten, Craig [2011-09 government](#)
Paul, Keryn [2016-03 satellite](#), [2018-08 greenhouse](#)
payments for environmental services (PES) for Indigenous peoples, savannas in northern
Australia and near neighbours [2012-12 Indigenous](#)
Pearse, Rebecca [2012-08 rangelands](#)
peat bog site, OzFlux measurements, Kopuatai Bog, NZ [2020-07 Kopuatai](#)
peatlands
monitoring, Indonesia [2019-10 counting](#)
restoration to tropical peat swamp forest, Kalimantan, Indonesia [2019-10 counting](#)
role in global carbon cycle [2020-07 Kopuatai](#)
Peck, Matthew [2021-10 French](#)
Peel, Alison [2020-03 environmental](#)
Pendall, Elise [2021-04 predicting](#)
People using TERN
Bradshaw, Corey [2015-03 Bradshaw](#)
Buettel, Jessie [2016-11 Buettel](#)
Davies, Janet [2015-06 Davies](#)
Derrick, Ben [2014-07 Derrick](#)
Dhillon, Vikram [2015-02 Dhillon](#)
Doolette, Ashlea [2018-05 Doolette](#)
Edwards, Andrew [2017-02 Edwards](#)
Furlaud, James [2016-03 Furlaud](#)
Gibbons, Phil [2014-09 Gibbons](#)
Good, Megan [2021-09 ecologists](#)
Goumas, Margarita [2014-07 Goumas](#)
Haverd, Vanessa [2016-10 Haverd](#)
Hoar, Tim [2014-07 Hoar](#)
Howard, Siân [2014-08 Howard](#)
Hunt, John [2014-11 Hunt](#)
Jacklyn, Peter [2014-07 Jacklyn](#)
Lepschi, Brendan [2015-04 Lepschi](#)
Mackenzie, Donald "DJ" [2014-07 Mackenzie](#)
Maes, Wouter [2015-12 Maes](#)
Marchin, Renée [2018-10 Marchin](#)
Miech, Ellen [2016-12 Miech](#)
Moore, Caitlin [2014-10 Moore](#)
National Australia Bank [2015-09 NAB](#)
Peters, Jen [2017-11 Peters](#)
Pisek, Jan [2015-01 Pisek](#)
Potgieter, Andries [2017-07 Potgieter](#)
Raiter, Karen [2019-02 Raiter](#)
Rickards, Jasmine [2014-07 Rickards](#)
Rumpff, Libby [2021-09 ecologists](#)
UN FAO [2016-06 FAO](#)
van Leeuwen, Stephen [2014-07 van Leeuwen](#)
Yee, Marie [2019-08 Yee](#)
Perez-Preigo, Oscar [2019-04 shaping](#)
Perkins, Elizabeth [2017-10 students](#)
Perret, Nicolas [2017-05 sound](#)

Persistence pays off for AusCover and partners [2012-10 persistence](#)
Persistent Green-Vegetation Fraction 2000–2010 [2012-10 persistence](#), [2012-11 helping](#),
[2012-12 building](#)
Pert, Petina [2014-12 ACEAS](#)
Perth, groundwater resource, Gnangara Mound aquifer [2021-08 students](#)
pest-fauna data protocols for rabbits, four species of deer, goats, feral pigs, cats, wild dogs
and foxes [2022-07 pest](#)
pests and weeds dataset [2021-08 quantify](#)
Peters, Jen [2021-05 living](#)
tropical savanna eucalypts don't feel stress [2017-11 Peters](#)
Peters, Jody [2023-01 Oceania](#)
phenocams
data sets, recorded via 63 TERN phenocams across 18 SuperSites [2022-07 biomass](#)
for monitoring vegetation phenology in Australian ecosystems [2014-10 Moore](#), [2016-06](#)
[smile](#)
installation at TERN's ecosystem observation SuperSites [2015-02 TERN](#), [2016-06 smile](#),
[2019-09 camera](#)
to monitor environmental change [2017-09 camera](#)
value of [2019-09 camera](#)
vegetation monitoring, Daintree Rainforest [2017-03 raspberry](#)
phenology
derived from MODIS EVI data [2014-11 satellite](#)
monitoring, using phenocams [2014-10 Moore](#), [2016-06 smile](#)
phenology monitoring, and greenness, alpine grasslands [2018-10 Marchin](#)
Philippine Long-Term Ecological Research (Philippine ILTER) [2016-03 global](#), [2016-11](#)
[NASA](#)
Phillips, Sara [2013-01 ideas](#)
Phinn, Stuart [2012-06 TERN](#), [2012-10 AusCover](#), [2013-02 refocus](#), [2013-08 like](#), [2013-12](#)
[scaling](#), [2014-06 safeguarding](#), [2014-07 foundations](#), [2014-10 echidna](#), [2015-04 funding](#),
[2017-04 London](#), [2019-06 remote](#), [2021-06 Science](#), [2021-07 Science](#), [2022-08 update](#)
phosphorus maps, surface Colwell P levels, Queensland [2021-06 improved](#)
phosphorus status, Queensland soils [2021-06 improved](#)
phosphorus-efficient native species [2018-05 Doolette](#)
photographs, historical, to tell flood stories [2014-10 photos](#)
photography, for vegetation status measurement [2014-10 measuring](#)
photopoint method, vegetation structure measurement [2013-08 TERN](#), [2013-12 scaling](#)
photospheres, of Australia's biomes [2014-10 armchair](#)
photosynthesis and transpiration decoupling during heatwaves, woodland trees [2019-04 sweat](#)
photosynthesis dataset [2021-08 quantify](#)
photosynthetic CO₂ uptake, universal prediction model [2017-09 universal](#)
photosynthetic pathway dataset of every vascular plant species recorded across TERN's
entire national plot network [2021-04 photosynthetic](#)
Photosynthetically Active Radiation (PAR), to characterise light penetration through the
canopy [2022-12 new](#)
Pilbara Corridors project, AusPlots ecosystem monitoring sites [2015-06 Pilbara](#)
Pilbara flora, identification, for effective land management [2021-11 next-gen](#)
Pilbara region, summary of TERN plots [2021-11 next-gen](#)
The pillars of Australia's research system [2021-09 pillars](#)
Pinkcard, Libby [2023-03 update](#)
Pioner, Silvia [2017-05 sound](#)

Pirzi, Rebecca [2016-06 NCRIS](#)

Pisek, Jan, vegetation clumping measurement using remote sensing technology [2015-01 Pisek](#), [2021-06 international](#)

Pitman, Andy [2018-07 stepping](#), [2019-01 valuable](#), [2021-08 update](#)

Planet A sustainability goals, in local communities [2020-04 Deakin](#)

plant adaptation, and climate change [2020-08 Aussie](#)

plant and soil sample library
housed at University of Adelaide's Waite Campus [2017-09 sample](#)
used by Australian scientists [2017-09 sample](#)

plant biodiversity
climate change impacts, South Australia [2018-07 climate](#)
hotspot mapping, South Australia [2016-09 biodiversity](#)

plant biomarkers, leaf waxes from a range of Australian environments for indicating climate [2014-08 Howard](#), [2019-02 waxes](#)

plant CO₂ uptake, universal prediction model [2017-09 universal](#)

plant communities
climate effects, flowering time patterns across six biomes [2022-07 research](#)
functional trait and physiology data from seven TERN SuperSites [2018-09 data](#)
functional traits explainable by climate and environment [2021-07 building](#)
leaf trait variation, relationship to climate and soils [2020-08 Aussie](#)
transformation responses to land-use changes, handbook [2012-08 tracking](#)

plant community composition
species turnover under severe climate scenarios, SA [2018-07 climate](#)
species turnover, Western Australian's sandplain ecosystem [2017-03 conserving](#)

plant fluorescence sensors, for maps of vegetation productivity and stress [2020-01 prototype](#)

plant invasions, unifying terminology and datasets, for effective management in Australia, [2024-09 harmonising](#)

plant response to environmental change, leaf traits as biological barometer [2019-06 barometers](#)

plant stress, SIF sensors to measure [2020-01 prototype](#), [2020-10 monitoring](#)

Planticle [2018-06 threatened](#)

plants, Threatened Species Index and management data for 2022 [2023-02 state](#)

Plants point to adaptive trends [2012-09 plants](#)

platypus sightings, Tasmania [2017-10 platypus](#)
100 years of survey data available via ÆKOS [2015-06 platypus](#)

plot-based ecological data, integration through a Semantic Web [2019-09 integrating](#)

Plot by plot, research becomes part of the social landscape [2013-11 plot](#)

Plumbing the carbon cycle in northern Australia's tropical savannas [2014-03 plumbing](#), [2015-05 plumbing](#)

Plymouth Marine Laboratory, UK [2016-03 satellite](#)

PNG Sustainable Development Program [2012-12 Indigenous](#)

poachers, and highly collectible rare and threatened species data [2017-07 responsible](#)

Podest, Erika [2019-11 biodiversity](#)

Poelina, Anne [2023-06 update](#)

policy documents, TERN articles cited in [2019-03 publications](#)

Policy Handbook (CSIRO Publishing) [2014-02 landmark](#), [2015-04 biodiversity](#)

pollen count datasets, Australia and New Zealand [2014-05 ensuring](#)

pollen monitoring and mapping for early warning [2013-03 greater](#), [2013-11 students](#), [2015-02 Dhillon](#), [2015-06 Davies](#), [2016-12 relief](#), [2019-10 pollen](#)

pollination dataset [2021-08 quantify](#)

pollutant loads entering the Great Barrier Reef lagoon, models [2013-09 integrating](#)
Poot, Pieter [2019-01 ecoEd](#)
Popic, Tony [2012-09 boom](#), [2013-11 plot](#), [2014-01 erratic](#)
Porter, David [2014-08 SPEDDEXES](#)
Portland State University [2012-12 Indigenous](#)
Possingham, Hugh [2014-04 fostering](#), [2015-01 critical](#), [2016-09 Booderee](#), [2018-06 threatened](#), [2021-07 Science](#), [2021-09 Australians](#), [2022-03 citizen](#), [2023-02 state](#), [2023-02 update](#), [2023-12 update](#), [2024-07 wildlife](#)
 appointed as Queensland's Chief Scientist [2020-09 update](#)
 welcomed as new Advisory Board Chair [2020-12 Possingham](#), [2021-03 update](#)
Possum Cam [2016-09 possum](#)
Potgieter, Andries, remote sensing data to estimate grain cropping area [2017-07 Potgieter](#)
Potter, Tamara [2019-12 essential](#), [2022-12 night](#)
Powell, Jeff [2019-04 TERN data](#)
Power, Sally [2017-01 global](#), [2020-09 changing](#)
Practical training in rangeland monitoring a success in the Northern Territory [2014-12 practical](#)
predators
 activity along roads [2019-02 Raiter](#)
 impact on rangeland grazing operations [2016-03 desert](#)
 see also dingoes; feral cats; red foxes
Predicting and regulating soil carbon in a warmer world [2021-04 predicting](#)
Predicting how ecosystems will work in a fast-changing world [2012-12 predicting](#)
Predicting reserves of lithium [2023-09 predicting](#)
Prentice, Colin [2012-02 cross-Tasman](#), [2012-03 break](#), [2012-04 focus](#), [2012-07 working](#), [2013-09 beer](#)
 co-edits *Understanding the Earth System* (Cambridge University Press) [2012-08 book](#)
prescribed burns *see* fuel reduction burns
Pressey, Bob [2011-09 despotic](#)
prey species, protection from predators through road rehabilitation [2019-02 Raiter](#)
Price, Cassandra [2023-11 Integrated](#)
primary industries sector, and TERN [2015-09 investment](#)
primary production, eMAST cross-Tasman project to monitor [2012-02 cross-Tasman](#)
Prince, Jane [2019-04 ecocloud](#)
Prober, Suzanne [2011-11 woodlands](#), [2013-02 TERN](#), [2013-10 western](#), [2017-03 conserving](#), [2018-10 drought](#), [2019-06 barometers](#), [2020-09 changing](#), [2020-10 monitoring](#), [2021-10 reviewing](#), [2012-12 restoration](#)
problem native species, policy advice for management [2012-12 ACEAS](#)
Proteaceae decline, Western Australian islands [2016-12 Miech](#)
protective burning, savanna, Top End [2017-07 Kakadu](#), [2017-08 Kakadu](#)
Prototype paves way for near-instantaneous maps of vegetation productivity and stress [2020-01 prototype](#)
public policy, linking science to [2013-01 ideas](#)
Public Sector Bridges project, successful projects receiving funding through ARDC's investment in [2020-11 update](#)
public transport connectivity [2020-02 liveability](#)
publications using TERN (2009 – 2019) [2019-03 publications](#)
Pugh, Tim [2014-08 SPEDDEXES](#)
Pullen, Martin [2011-08 bringing](#), [2011-09 government](#)
purple wattle (*Acacia careneorum*) [2018-10 surveys](#)

Putting Australia's vegetation on the map [2021-04 putting](#)
PyFluxPro, QA/QC processing of TERN flux data [2022-03 flux](#)

QRIScloud [2018-06 threatened](#)

Queensland

vegetation data available via TERN [2017-06 map](#)

Vegetation Data Synthesis Challenge workshops in collaboration with TERN [2023-02 TERN](#)

Queensland Alliance for Agriculture and Food Innovation (QAAFI) [2017-07 Potgieter](#)

Queensland Cyber Infrastructure Foundation (QCIF) [2012-10 managing](#), [2017-05 sound](#),
[2018-10 ecocloud](#)

Queensland Government

co-invests in NCRIS-enabled TERN [2020-06 Queensland](#), [2020-06 update](#)
funding of TERN [2012-12 TERN](#)

Research Infrastructure Co-investment Fund [2020-06 Queensland](#), [2020-06 update](#), [2021-05 Brisbane](#)

Queensland Government's Remote Sensing Centre [2019-04 Mitchell](#)

Queensland Herbarium [2017-06 map](#)

Queensland Museum [2020-03 environmental](#)

Queensland University of Technology

assists secondary students with field work [2013-11 future](#)

Institute for Future Environments [2012-10 eclipsed](#), [2019-04 Mitchell](#)

Institute of Sustainable Research, develops ASN Data Portal [2012-10 managing](#)

leads Australian Acoustic Observatory (A2O) [2020-01 Institute](#)

post-graduate research [2012-10 eclipsed](#)

researchers [2012-10 eclipsed](#), [2016-12 relief](#), [2019-04 Mitchell](#), [2019-06 barometers](#), [2019-10 pollen](#), [2021-06 measuring](#), [2021-07 Mitchell](#), [2022-07 flux](#), [2022-07 forest](#)

Samford Ecological Research Facility (SERF) [2011-12 SuperSite](#), [2012-05 engaging](#),
[2013-04 learners](#), [2019-03 Asia](#), [2021-05 Brisbane](#), [2024-02 art](#)

Queensland's Department of Fire and Emergency Services [2012-11 helping](#)

Queensland's Department of Natural Resources and Mines [2013-09 integrating](#)

Queensland's Department of Science, Information Technology and Innovation (DSITI)
analyses Landsat imagery [2016-10 online](#)

biomass and carbon measurement collaboration project [2015-04 funding](#)

CORVEG dataset collaboration [2017-06 map](#)

researchers [2016-03 satellite](#)

TERN delivers fire briefing session to introduce remote-sensing products [2012-11 helping](#)

Queensland's Department of Science, Information Technology, Innovation and the Arts
(DSITIA) [2013-09 visualising](#), [2014-03 cyclones](#), [2014-03 ecological](#)

Questacon [2013-01 ideas](#)

A quiet revolution – a case study of the value of TERN [2014-10 quiet](#)

R package for Soil and Landscape Grid of Australia [2019-03 R package](#)

Ragless, Luke [2018-09 Cape York](#), [2018-10 surveys](#), [2019-01 mine](#), [2019-06 training](#), [2019-07 observatory](#)

Raincoat for a rainforest: Simulating drought in the Daintree [2017-02 raincoat](#), [2017-12 raincoat](#)

rainfall, 2019 environmental indicator [2020-03 environment](#)

rainfall prediction, real-time, and floods [2020-02 Centre](#)

rainfall tipping points, and climate, arid ecosystems [2019-12 sink](#)

rainforest species, fire frequency and evolution of Australian forests [2012-11 fire](#)
rainforest trees, mortality, climate change effects [2022-05 climate](#)
rainforests
cyclone effects [2014-01 science](#), [2014-03 long-term](#)
drought simulation, Daintree [2014-01 Daintree](#), [2014-03 hives](#), [2017-02 raincoat](#), [2017-12 raincoat](#), [2019-09 Centre](#)
[ecosystem characteristics](#), Robson Creek Rainforest SuperSite [2012-09 many](#)
inventory, Papua New Guinea [2019-09 rainforest](#)
long-term research, Connell Rainforest Plot Network [2015-01 long-term](#)
microclimate data collection, TERN FNQ monitoring sites [2023-06 TERN](#)
vulnerability to drought [2021-05 living](#)
Raiter, Keren, global proliferation of roads on predator species' activity and hydrology [2019-02 Raiter](#)
Rakotopare, Nicolas [2023-01 partners](#), [2023-01 update](#), [2023-02 update](#)
Randall, Lucy [2015-03 MCAS-S](#)
Rangeland NRM Alliance [2016-10 online](#)
Rangeland Pasture Productivity Map [2018-12 dust](#)
rangelands
condition monitoring [2012-06 assessing](#)
and livestock grazing [2014-02 experience](#)
protocols [2015-06 condition](#)
remote sensing use [2019-08 Spatial](#)
dingo control of feral cats and red foxes [2014-11 mice](#)
ecology and regeneration of natural arid zone vegetation, long-term study [2014-02 experience](#), [2015-09 track](#)
ecosystem surveillance plots [2017-03 ecosystem](#)
fauna survey protocols [2015-06 condition](#)
monitoring the success of rangelands management [2012-08 rangelands](#)
monitoring training, NT [2014-12 practical](#)
pasture productivity, field data survey [2018-12 rangelands](#)
Rangelands pasture productivity field data survey [2018-12 rangelands](#)
Rangelands Survey Protocols Manual *see* AusPlots Rangelands, Survey Protocol Manual
Rangelands survey school in Western Australia: field report [2012-10 rangelands](#)
Ranger uranium mine
Closure Plan [2019-01 mine](#)
TERN protocol to assess rehabilitation success [2019-01 mine](#)
Rankin, Cassidy [2013-12 several](#)
Rapley, Shoshana [2019-05 environment](#), [2024-03 environment](#)
raptors, working with the community to collect data on [2017-11 raptors](#)
rare and threatened species data, making it safe [2017-07 responsible](#), [2018-07 Tanami](#)
Raspberry Pi single-board computer [2017-03 raspberry](#)
Ravensthorpe Range Fauna Survey [2014-04 fostering](#)
Ravensthorpe Range Flora Survey, dataset available via ÆKOS [2012-09 ÆKOS](#)
Rawling, Tim [2017-08 Earth](#), [2019-07 treetop](#), [2022-12 Integrated](#), [2023-04 update](#)
Rayner, Kelly [2021-09 Centre](#)
RDS *see* Research Data Services (RDS)
Real-time soil sensing and sampling for critical WA agricultural monitoring site [2023-04 real](#)
Recent progress and future development in terrestrial GHG flux observations – ecosystem research towards an essential climate variable [2021-10 TERN](#)

red foxes

management by dingoes, in rangeland grazing operations [2014-11 mice](#)
predation activity along roads [2019-02 Raiter](#)

red-legged pademelon (*Thylogale stigmatica*) [2017-09 camera](#)

redfin blue eye fish (*Scaturiginichthys vermeilipinnis*), conservation translocation [2020-05 Canberra](#)

Redland City Council, Qld, raptor nest siting project [2017-11 raptors](#)

Reef, Ruth [2021-10 French](#)

Reef Water Quality Improvement Plan (Reef Plan) [2013-09 integrating](#)

regenerating forests, integration of art and science in [2024-02 art](#)

regenerative agriculture [2022-08 living](#)

regional communities, impact of mine closure on [2021-01 Butler](#)

Regional Ecosystems (RE) mapping, Queensland [2017-06 map](#)

Regional Land Partnerships (RLP) program

MER network [2021-10 reviewing](#)

uses new standardised data collection protocols [2021-03 standards](#)

Rehn, Emma [2019-09 Centre](#)

Relief in sight: countrywide pollen monitoring and mapping for early warning [2016-12 relief](#)

remote sensing

AusCover tools workshop for data users, Perth [2011-12 data](#)

Australia's fires [2014-01 watchful](#), [2015-04 capabilities](#)

data, to estimate grain cropping area and forecasts [2017-07 Potgieter](#)

derived products, field calibration and validation practices handbook [2018-08 CalVal](#)

drone use, for ecosystem mapping [2024-09 ecosystem](#)

for fire severity mapping, tropical savanna ecosystems [2012-11 mapping](#)

for vegetation clumping measurement [2015-01 Pisek](#), [2021-06 international](#)

forest structure [2012-07 detecting](#)

honey harvest prediction, WA [2020-07 honey](#)

how to prepare for seamless global in-situ remote sensing observations to meet present and future model needs [2023-06 update](#)

infrastructure, for use in ecosystem science and natural resource management [2017-06 pictures](#)

international quality control of data [2011-10 ACEAS](#)

role in extreme event data collection [2020-01 safeguarding](#)

soil and exposed rock [2021-02 Earth](#)

soil carbon: testing our capacity for dynamic assessment [2020-04 remote](#)

TERN products relevant to assess fuel loads, fire risks and fire history [2012-11 helping](#)

TERN supports commercialisation success of Ozius Biome's environmental management product [2022-05 commercial](#)

unmanned aircraft systems use, Antarctica [2013-09 AusCover](#)

use in down-to-earth farming decisions [2012-08 aerial](#), [2014-11 satellite](#)

Visible and Infrared Imaging Radiometer Suite (VIIRS) satellite-mounted sensing workshops [2011-11 VIIRS](#), [2011-12 workshop](#), [2012-03 workshops](#)

Remote Sensing Centre (Queensland Government) [2019-04 Mitchell](#)

Remote Sensing Research Centre (University of Queensland), areas of research and courses [2019-06 remote](#)

Renzullo, Luigi [2014-07 Hoar](#), [2020-02 Centre](#), [2020-02 cosmic](#)

Report on the Environment (US EPA) [2023-06 how](#)

reproducibility in ecosystem science analysis [2014-08 facilitating](#), [2014-12 research](#)

reproducible Kepler workflows [2019-01 virtual](#)

Resco de Dios, Victor [2014-01 hot](#)
Research at Warra Supersite improves forestry policy [2012-08 research](#)
Research Data Australia (RDA) [2013-06 data](#), [2014-08 facilitating](#), [2021-11 delivering](#)
Research Data Services (RDS) [2017-06 ecoEd](#), [2017-08 EcoCloud](#), [2018-06 threatened](#)
Research Data Storage Infrastructure (RDSI) [2014-04 NCRIS](#), [2014-08 facilitating](#)
research infrastructures, global importance of Brno Declaration on [2023-02 Brno](#)
Research Infrastructure Co-investment Fund (RICF) (Qld)
TERN receives funding from [2020-06 Queensland](#), [2020-06 update](#), [2021-05 Brisbane](#),
[2023-06 TERN](#), [2024-07 update](#)
Research Infrastructure Investment Plan (RIIP), 2020 (Cth) [2021-09 pillars](#)
funding remains intact [2020-10 update](#)
Scoping Study *see under* National Environmental Prediction System (NEPS)
TERN funding [2020-11 update](#)
Research Infrastructure Roadmap *see* National Research Infrastructure Roadmap
Research Institute for the Environment and Livelihoods (RIEL) (Charles Darwin University)
[2012-05 new](#), [2012-05 TERN](#), [2018-08 Top End](#), [2019-10 RIEL](#)
research activities and student learning experiences [2019-10 RIEL](#)
Research using TERN data: flowers, biomes and a mountain of data [2022-07 research](#)
Researcher opportunity: new ausplotsR is available now! [2020-11 researcher](#)
Responsible data publishing [2017-07 responsible](#), [2018-07 Tanami](#)
Reviewing post-fire recovery and ecological management effectiveness [2021-10 reviewing](#)
Rethinking fire management in Kakadu [2017-07 Kakadu](#)
Rexrode, Adam [2023-11 Chicago](#)
Richardson, Max [2016-10 drones](#)
Rickards, Jasmine, soil erosion monitoring [2014-07 Rickards](#)
Ridgefield OzFlux site, WA [2021-06 Boyagin](#)
Ridges, Mal [2011-12 wild](#)
Riebau, Al [2011-12 data](#)
Riegl Laser Measurements Systems GmbH [2016-10 drones](#)
riparian zones, plant species' occurrences [2013-07 tall](#)
River Murray floodplains. SA, VMS installation [2024-01 extending](#)
Riverland Biosphere Soundscapes Lab [2019-05 biosphere](#)
R.M. Williams Agricultural Holdings, AusPlots Rangelands monitoring sites established on
property, south-west of Alice Springs, NT [2012-08 rangelands](#)
RMIT University [2019-10 counting](#)
Centre for Environmental Sustainability and Remediation [2020-07 Centre](#)
ICON Science [2020-02 liveability](#)
joint management of TERN's Rushworth Forest CalVal site [2020-02 ghost](#)
researchers [2013-07 NATT](#), [2013-07 tall](#), [2020-02 liveability](#)
roads
impact on flow and distribution of water [2019-02 Raiter](#)
predator activity along [2019-02 Raiter](#)
Roberts, Richard ('Bert') [2021-03 ARC](#)
Robertson, Phillip [2018-12 long-term](#)
Robinson, Nestor [2017-06 ecoEd](#)
Robson, Simon [2023-03 bat](#)
Robson Creek Rainforest SuperSite [2014-03 hives](#)
CosmOz sensor installed [2013-08 cosmic](#)
data contributing to GEO-TREES global forest biomass reference system [2024-07 update](#)
Digital Earth Australia tests the SuperSite as UAV validation site [2022-12 Digital](#)

global data applications [2021-11 tour](#)
hosts James Cook University undergraduate field trips [2014-09 nation-wide](#)
leaf level physiology, chemistry and structural traits [2018-09 data](#)
multidisciplinary cooperative and collaborative approach to forest structure and
composition [2012-09 many](#)
photosphere [2014-10 armchair](#)
plant functional traits [2018-09 data](#)
sensors installed on trees and in soil pits to collect data on sap flux and soil water potential
[2022-03 novel](#)
site infrastructure and characteristics [2021-11 tour](#)
team battle unseasonal rain to install new ASN flux tower [2013-05 rain](#)
virtual tour, located on Yidinji land, FNQ [2021-11 tour](#), [2021-12 update](#)
Wood Block Decomposition 12 Month Mass Loss Assessment [2019-04 TERN data](#)
Rockefeller University, USA [2019-11 drug](#)
Roelfsema, Chris [2019-06 remote](#)
Rosauer, Dan [2012-06 new](#)
rotational grazing of cattle for controlled periods of time, soil-carbon benefits [2022-07 flux](#)
Rowlings, David (Dave) [2019-04 Mitchell](#), [2021-06 measuring](#), [2021-07 Mitchell](#), [2022-07 flux](#)
Royal Botanic Gardens Sydney [2015-12 catchment](#)
Royal Institution of Australia, European land use and biodiversity – debate [2012-02 landscape](#), [2012-04 romantics](#)
Rumpff, Libby, and Megan Good, launch new threatened woodland recovery plan [2021-09 ecologists](#)
Rush, Max [2019-06 training](#)
Rushworth Forest CalVal site [2020-02 ghost](#)
Russell-Smith, Jeremy [2012-07 standardising](#), [2012-12 Indigenous](#), [2014-03 modelling](#),
[2015-04 ecologically](#), [2017-07 Kakadu](#), [2017-08 Kakadu](#)

Saatchi, Sassan [2018-08 laser](#)
Safeguarding Australia’s critical research infrastructure [2014-06 safeguarding](#)
Safeguarding national research infrastructure from extreme events [2020-01 safeguarding](#)
Saintilan, Neil [2023-12 coastal](#)
Salmon, Paul [2021-08 University](#)
saltmarshes
complex terrain and tidal movement, French Island flux tower [2021-10 French](#)
quantifying methane fluxes, French Island [2021-10 French](#)
Samford Ecological Research Facility (SERF) [2012-05 engaging](#), [2012-10 eclipsed](#), [2013-04 learners](#), [2019-03 Asia](#)
citizen science bird monitoring and collaboration with TERN [2021-05 Brisbane](#), [2022-08 web-based](#)
Samford Peri-Urban SuperSite [2020-03 investigating](#)
Forest Art Intelligence (FAI) at [2024-02 art](#)
Sammels, Barry [2012-12 improving](#)
sample collections
empower Australian science [2014-05 sample](#)
soil data [2020-02 cosmic](#)
sandplain ecosystems, WA, species turnover in botanical composition [2017-03 conserving](#)
Sandplains of the south-west to reveal their treasures [2013-10 sandplains](#)
Satellite and aerial imagery used in down-to-earth farming decisions [2014-11 satellite](#)

satellite-based monitoring

cyclones and fires, northern Australia [2014-03 cyclones](#)

Himawari Eco-stress product monitoring vegetation drought [2024-12 landscapes](#)

NovasAR-1 satellite-collected radar images of the Australian continent [2021-07 all-weather](#)

satellite data

carbon dioxide pulses, semi-arid regions after onset of wet season [2023-06 soil](#)
over the Australian continent on-ground calibration-validation, by TERN assists NASA [2021-07 satellite](#)

on-ground verification, at TERN's Litchfield Savanna SuperSite [2021-11 verifying](#)
Satellite Data Strategy of the Global Forest Observation Initiative (GFOI) [2011-11 continuity](#)

Satellite eye on Australia's vegetation [2016-03 satellite](#)

satellite soil moisture validation, CosmOz network data use [2023-12 TERN](#)

Savage, James [2016-10 drones](#)

savanna ecosystems

climate and fire shape savannas [2021-03 Howard](#)

fire management [2015-04 ecologically](#)

Indigenous know-how [2012-12 Indigenous](#)

fire severity mapping, Top End [2017-02 Edwards](#)

modelling change, NT [2014-03 modelling](#)

relationship between fire and carbon, Litchfield SuperSite [2012-07 savanna](#)

savanna burning carbon farming initiatives [2012-11 savanna](#), [2014-03 cyclones](#), [2019-10 RIEL](#)

surveys [2014-03 survey](#)

sustainable fire management project, Top End [2017-07 Kakadu](#), [2017-08 Kakadu](#)

terrestrial net primary productivity [2012-12 Indigenous](#)

Savanna Supersite to explain relationship between fire and carbon [2012-07 savanna](#)

Scaling up – taking TERN to the world at AGU 2013 [2013-12 scaling](#)

Scarth, Peter [2012-07 detecting](#), [2012-11 helping](#), [2012-11 using](#), [2014-10 echidna](#), [2015-02 lasers](#), [2016-03 satellite](#), [2016-10 online](#), [2017-04 London](#), [2019-04 Mitchell](#)

Schaefer, Michael (Mick) [2014-10 echidna](#), [2015-04 funding](#), [2017-04 London](#)

Scheider, Matt [2013-09 surveys](#)

Schimmel, David [2013-01 your](#), [2013-02 access](#), [2016-11 NASA](#)

scholarships, TREND [2013-04 developing](#)

Scholes, Bob [2018-12 long-term](#), [2021-04 update](#)

Schools Weather and Air Quality (SWAQ), citizen science project, Sydney [2021-09 Sydney](#)

Schroder, Ivan [2012-06 benefits](#)

Schultz, Les [2014-01 Ngadju](#)

Schwarzkopf, Lyn [2020-01 Institute](#)

science and society [2014-01 improving](#)

Science Clouds, Australian [2017-08 EcoCloud](#)

Science community capitalises on TERN flux monitoring infrastructure [2016-06 flux](#)

science education

ACEAS involvement in [2013-11 students](#)

through EcoEd training [2017-06 ecoEd](#)

Science improves cyclone resistance in the Wet Tropics [2014-01 science](#)

Science of Extreme Events, TERN public briefing, Canberra [2014-01 improving](#)

Science on the festival circuit [2011-11 science](#)

Science TRENDy in South Australia [2011-10 science](#)

scientific knowledge, how can it influence public policy? [2013-01 ideas](#)

scientific name search capability added to ÆKOS portal [2012-10 AEKOS](#)
Scoping Australia's first national predictive research capability reaches pointy end [2020-05 scoping](#)
Scorgie, Yvonne [2016-03 fire](#)
sea level rise
 impact on coastal wetlands [2023-12 coastal](#)
 impact on Kakadu wetlands [2014-03 helping](#), [2014-04 fostering](#)
 tidal wetland monitoring using Surface Elevation Tables (SETs) to assess vulnerability to sea-level rise [2023-12 coastal](#), [2024-09 tidal](#), [2024-12 mangrove](#)
Searle, Ross [2014-03 improving](#), [2020-02 cosmic](#), [2020-06 soil](#), [2022-03 soil](#)
secondary education sector, TERN links with [2020-04 update](#)
secondary school students
 Computer Science for High School (CS4HS) [2013-01 acorn](#)
 ecosystem science field work, FNQ Rainforest SuperSite [2013-04 learners](#), [2013-11 future](#)
 environmental education, Calperum Mallee SuperSite [2017-01 books](#)
 TERN ecosystem data available for [2020-05 teaching](#)
Seeing the wood and the trees: measuring climate change in forests [2013-01 seeing](#)
Semantic Web, integration of plot-based ecological data [2019-09 integrating](#)
semi-arid regions, carbon dioxide pulses at onset of wet season [2023-06 soil](#)
sensitive ecological data, national guidelines and tools for [2017-07 responsible](#), [2018-07 Tanami](#)
Sensitive sensors survive savanna scorching [2018-09 sensitive](#)
Sentinel Hotspot Google Earth KML fire mapping tool [2014-01 watchful](#)
Sentinel Phenocam, vegetation monitoring, Daintree Rainforest [2017-03 raspberry](#)
Sensoil's VMS real-time soil monitor installed at UWA Ridgefield Farm 230429 real SEQ Peri-urban Supersite, Qld *see* South-East Queensland Peri-urban SuperSite, Qld SEQUITOR project [2013-09 visualising](#), [2014-01 improving](#), [2014-04 NCRIS](#), [2014-05 collaborating](#), [2014-07 Mackenzie](#), [2014-10 photos](#)
Seqwater [2013-09 visualising](#)
Seshardi, Balaji [2019-06 training](#)
Several fields of ecosystem science capitalise on OzFlux network [2013-12 several](#)
Shabani, Farzin [2020-11 Global](#)
Shanafield, Margaret [2017-08 Earth](#)
Shaping the future of ecosystem science [2013-10 shaping](#)
Shaping the future of ecosystem surveillance [2019-04 shaping](#)
Shapter, Joe [2019-03 Asia](#), [2022-05 update](#), [2022-08 update](#)
 on key scientific issues, technologies and engagement activities addressed by TERN infrastructure [2020-10 TERN](#)
Share and share alike: \$1M funding brings SHaRED research data to scientist's desktop [2012-06 share](#)
Share Big Earth Data support the 2030 Agenda for Sustainable Development [2019-07 share](#)
Share your input invited to Australia's environmental predictive capability [2019-10 share](#)
SHaRED data submission tool [2012-12 accessing](#), [2013-07 eco-informatics](#), [2014-04 NCRIS](#), [2014-05 SHaRED](#), [2014-06 road](#), [2015-03 Bradshaw](#), [2016-09 biodiversity](#), [2012-12 restoration](#)
 Eco-Informatics Facility receives funding to develop [2012-06 share](#)
 how to publish your data with TERN [2020-11 publish](#), [2021-07 Nature](#)
 workshop and tutorial at ESAus20 [2020-11 ESAus20](#)
Sharp, Jim [2013-10 western](#)
Sharpe, Lynda [2020-01 heatwaves](#)

Shaw, Matt [2019-06 training](#)
Sheehan, Daniel [2019-06 training](#)
Sheldon, Fran [2012-02 decisions](#)
Shibata, Heideaki [2019-12 Snowy](#)
shrubland ecosystems, climate change effects, soil biota [2020-09 Centre](#)
Silberstein, Richard [2011-12 data](#), [2013-09 flux](#), [2017-08 Earth](#), [2020-05 Gingin](#)
Silvester, Ewen [2021-04 Research](#)
Silvicultural Systems Trial (SST), Warra Tall Eucalypt SuperSite, Tas. [2012-08 research](#),
[2014-11 forestry](#)
Simms, Anthony [2017-07 Kakadu](#)
Simpson Desert
 benefits of research on pastoral properties [2013-11 plot](#)
 boom-and-bust nature, long-haired rat population [2012-09 boom](#)
 long-term desert ecology data [2014-05 sample](#), [2016-03 desert](#), [2018-09 incomplete](#)
Sinclair, Gary [2020-02 ghost](#), [2023-01 experience](#)
Sinclair, Russ [2015-09 track](#)
Site of the Month
 Alice Mulga SuperSite [2020-09 Alice](#)
 Ashley Dene [2020-11 Ashley](#)
 Boyagin Wandoo Woodland SuperSite [2021-06 Boyagin](#)
 Calperum Mallee SuperSite [2020-11 Calperum](#)
 French Island, Vic. [2021-10 French](#)
 Gingin Banksia Woodland SuperSite [2020-05 Gingin](#)
 Howard Springs, NT [2021-03 Howard](#)
 Kopuatai Bog [2020-07 Kopuatai](#)
 Mitchell Grass Rangeland SuperSite [2021-07 Mitchell](#)
 Warra Tall Eucalypt SuperSite [2021-04 Warra](#)
 Wombat Stringybark Eucalypt SuperSite [2020-08 Wombat](#)
Sixsmith, Josh [2014-08 SPEDDEXES](#)
ski resorts, weed and fire management program [2017-06 decades](#)
Sky's the limit with TERN collaboration [2014-04 sky](#)
SLATS Star Transects data (from TERN), incorporated into Ozius Biome [2022-05](#)
[commercial](#)
sleepy lizard (*Tiliqua rugosa*), phylogenetic and ecological data [2012-10 data](#)
small-molecule therapeutics, environmental factors contributing to differences in composition
 of soil metabolites [2019-11 drug](#)
SMART Farm Innovation Centre (SFIC) (University of New England) [2020-06 SMART](#)
Smile, forests, you're on camera [2016-06 smile](#)
Smile, landscape, you're on candid camera! [2013-11 smile](#)
SMIPS soil moisture system [2023-12 TERN](#)
Smith, Benjamin [2019-07 Hawkesbury](#)
Smith, Brant, joins TERN Advisory Board [2020-11 update](#)
Smith, Claire [2011-12 data](#)
Smyth, Anita [2011-08 bringing](#), [2012-10 partnerships](#), [2014-12 creating](#), [2016-03 open data](#),
[2016-06 NCRIS](#), [2017-07 responsible](#)
snow, loss of, impact on alpine ecosystems [2018-10 Marchin](#)
snow ecology [2021-04 Research](#)
social concerns and scepticism about science, alleviating [2014-02 wake-up](#)
social science organisations, support for biodiversity research, France [2012-05 business](#)
Soil – the driver of carbon dioxide variability over Australia [2023-06 soil](#)

soil acidification, sub-surface, cropping regions, SA [2022-03 Institute](#)
soil and erosion dataset [2021-08 quantify](#)
soil and exposed rock, satellite remote sensing [2021-02 Earth](#)
Soil and Landscape Grid of Australia [2012-04 focus](#), [2015-09 investment](#), [2017-02 Google](#),
[2020-04 erosion](#)
access and use [2014-06 road](#)
APSIM (Agricultural Production Systems sIMulator) [2023-12 TERN](#)
assists real-world decision making [2020-09 digital](#)
celebrates first six months [2015-06 Soil](#)
collaborators [2013-12 TERN](#)
comprehensive soil data and sample collection [2020-02 cosmic](#)
data incorporated into Soil Moisture Integration and Prediction System (SMIPS) [2020-02](#)
[cosmic](#)
dataset to develop digital soil map for lithium [2023-09 predicting](#)
improving cost-effectiveness of industry investment in northern Australia through better
soil information [2014-03 improving](#)
incorporated into Yield Prophet® decision support tool [2019-09 big data](#)
land evaluation to map suitability of northern Australia for agriculture [2013-07 mapping](#)
launched [2014-11 National](#)
partnerships and training with regional and more distant neighbours [2013-12 TERN](#), [2017-](#)
[04 soil](#)
R package for [2019-03 R package](#)
role [2011-11 world](#), [2012-12 ground](#)
on show at Global Symposium on Soil Organic Carbon hosted by FAO in Rome [2017-04](#)
[soil](#)
SoilWaterApp [2023-12 TERN](#)
student use for staycation field trips [2021-09 TERN](#)
TERN funding for CSIRO-led soil-science facility [2011-11 world](#)
TERN optimised workflows and methodologies, and future developments [2024-12](#)
[landscapes](#)
web API [2023-12 TERN](#)
soil and plant sample library
housed at University of Adelaide's Waite Campus [2017-09 sample](#)
rehoused in TERN Australia Soil and Herb Collection facility in Adelaide [2022-12 treasure](#)
soil barcoding [2014-04 NCRIS](#), [2014-08 creating](#)
soil biota
climate change effects, shrubland ecosystem, WA [2020-09 Centre](#)
role in nutrient cycling [2022-08 living](#)
soil bulk density measurement [2014-12 practical](#)
soil carbon
forum [2021-04 update](#)
increasing for sustainable production and drought resilience [2021-06 measuring](#)
predicting and regulating in a warmer world [2021-04 predicting](#)
stimulating research into effective ways to build [2020-04 remote](#)
TERN's contribution to global CIRCASA project [2020-04 remote](#)
soil carbon map [2012-07 evolution](#)
soil carbon sequestration
fertilisation effects, managed grasslands [2020-09 changing](#)
flux studies, agricultural soil ecosystems [2022-07 flux](#)
new methods for measuring and validating [2021-06 measuring](#)

via agriculture [2020-04 remote](#)
soil carbonate, measurement using MIR spectroscopy [2022-03 Institute](#)
soil classification map, developed by TERN [2022-03 soil](#)
soil condition, satellite monitoring [2018-12 dust](#)
soil data, accessible through SoilDataFederator app [2021-09 accessing](#), [2023-12 TERN](#)
soil erosion
 monitoring [2014-07 Rickards](#)
 monitoring and predicting hillslope erosion, NSW [2020-04 erosion](#)
 risk areas, hillslope erosion, NSW [2020-04 erosion](#)
 risk maps, land management applications [2020-04 erosion](#)
soil greenhouse gas exchange, impact of temperate forest fuel reduction burns on [2015-06 impacts](#)
soil health, impact on ecosystem services [2022-08 living](#)
soil horizon, and CZO [2019-07 treetop](#)
Soil info app-solutely useful for farm advisers [2013-04 soil](#)
soil management, app to map cyanobacteria crusts [2015-06 cyanobacteria](#)
Soil microbiome and biodiversity implications – are we ignoring cost-effective proxies of biodiversity measures? [2021-09 soil](#)
soil microbes, and the Birch effect [2023-06 soil](#)
soil moisture active passive (SMAP) mission [2016-11 NASA](#), [2018-07 TERN](#)
 to map global carbon [2015-02 NASA](#), [2021-07 satellite](#)
soil moisture information system [2020-02 cosmic](#), [2021-10 getting](#)
Soil Moisture Integration and Prediction System (SMIPS) [2020-02 cosmic](#), [2021-10 getting](#)
soil moisture network (CosmOz) [2013-08 cosmic](#), [2013-09 flux](#), [2017-08 Earth](#), [2020-02 cosmic](#), [2020-06 soil](#)
soil moisture sensing network, ongoing installation of TERN’s national network 251105 update
soil organic carbon
 increasing by recarbonising soils [2023-04 neutral](#)
 space-time mapping [2024-11 spotlight](#)
soil phosphorus status, Queensland [2021-06 improved](#)
soil products from TERN [2022-03 soil](#)
soil respiration, semi-arid regions at onset of the wet season [2023-06 soil](#)
soil samples
 environmental factors affecting bacterial bioactive metabolites [2019-11 drug](#)
 for NCRIS-funded BASE project [2014-08 creating](#)
 to improve the success of investment in northern Australia [2014-03 improving](#)
soil sensing, real-time, for high-tech agricultural monitoring, WA [2023-04 real](#)
soil science as a career (booklet) [2022-12 update](#)
soil water information products for drought monitoring [2020-02 Centre](#)
SoilDataFederator app, providing access to soil data created by different agencies [2021-09 accessing](#), [2023-12 TERN](#)
SoilMapp for iPad [2012-10 app](#), [2012-12 ground](#), [2013-04 soil](#)
SoilWaterApp [2023-12 TERN](#)
soils
 n-alkane distribution, correlation with general vegetation found over an area [2014-08 Howard](#), [2019-02 waxes](#)
 conductive heat flow measurements, Calperum CZO [2024-11 heat](#)
 monitoring the effect of bushfires on soils, Kangaroo Island [2021-10 monitoring](#)
Soils to Satellites (S2S) [2012-12 accessing](#), [2013-07 eco-informatics](#), [2014-04 NCRIS](#), [2014-](#)

[05 sample](#), [2014-08 Howard](#), [2017-03 ecosystem](#)
launched [2013-06 soils](#)
NCRIS partners work together to build Soils-to-Satellites tool [2012-08 NCRIS](#)
online [2013-06 soils](#)

solar-induced chlorophyll fluorescence (SIF)
satellite systems that detect [2020-01 prototype](#)
sensor installation at WA SuperSites [2020-01 prototype](#), [2020-10 monitoring](#)
sensors, as process-based dynamic proxies of vegetation productivity and stress [2020-01](#)
[prototype](#)

sonic fabulations [2017-05 sound](#)
Soto-Berelov, Mariela [2013-07 tall](#)
soundscapes [2017-05 sound](#), [2019-05 biosphere](#), [2020-02 ghost](#)
South African Environmental Observation Network (SAEON) [2016-03 global](#), [2016-11](#)
[NASA](#)

South Australia
flora, impact of climate change on [2018-07 climate](#)
new techniques to improve state fire mapping [2017-01 fire](#)
plant biodiversity hotspots, mapping [2016-09 biodiversity](#)
TREND data [2012-08 TREND](#), [2016-09 biodiversity](#), [2017-09 sample](#), [2018-09 Cape](#)
[York](#), [2018-10 surveys](#)

South Australian Research and Development Institute (SARDI) [2011-10 science](#), [2017-09](#)
[sample](#)
researchers [2012-08 TREND](#)

South Australia's Department of Environment, Water and Natural Resources (DEWNR)
[2012-12 special](#), [2013-02 carbon](#), [2013-09 surveys](#), [2013-11 smile](#), [2014-04 fostering](#),
[2017-01 fire](#)

South Australia's Department of Environment and Natural Resources (DENR) [2011-09](#)
[government](#), [2011-10 science](#)

South East Queensland Integrated Terrestrial to Ocean Research project *see* SEQuITOR
project

South-East Queensland Peri-urban SuperSite, Qld [2013-04 learners](#), [2013-08 TERN](#), [2014-10](#)
[echidna](#)
acoustic sensor usage [2012-10 eclipsed](#)
camera traps [2017-09 camera](#)
koala population monitoring, spot assessment technique to survey scats [2012-09 looking](#)
movement of carbon in estuaries [2012-07 study](#)
photosphere [2014-10 armchair](#)
research and activities [2011-12 SuperSite](#)
tea bag monitoring [2016-11 tea](#)
Wood Block Decomposition 12 Month Mass Loss Assessment [2019-04 TERN data](#)

South Korea MoU expands TERN's regional network [2017-09 Korea](#)

South West Australian Transitional Transect (SWATT)
co-established by ATN and WADPW [2013-07 agriculture](#)
data accessible via ÆKOS Data Portal [2015-02 treasures](#)
extent of [2013-10 sandplains](#)
rapid changes in species composition, sandplain ecosystems [2017-03 conserving](#)
training indigenous rangers for SWATT resampling in the Birriliburu Indigenous Protected
Area [2021-06 update](#)

south-west sandplain communities, vegetation data, SWATT sites, WA [2013-10 sandplains](#),
[2015-02 treasures](#)

south-west WA

richest ecosystems grow on ancient soils [2021-09 Centre](#)

tall eucalypt forests, long-term monitoring plots [2013-07 agriculture](#)

South-western woodlands a focus of research [2011-11 woodlands](#)

southern Australian eucalypt woodlands, threatened woodland recovery plans [2021-09 ecologists](#)

southern brown bandicoots (*Isoodon obesulus*), reintroduction, Booderee National Park [2016-09 Booderee](#)

Southern Eyre Peninsula, as plant biodiversity hotspot [2016-09 biodiversity](#)

Southern Flinders Ranges, as plant biodiversity hotspot [2016-09 biodiversity](#)

Southern Mount Lofty Ranges, as plant biodiversity hotspot [2016-09 biodiversity](#)

Southern Tanami Indigenous Protected Area, biodiversity data released [2018-07 Tanami](#)

Southwest Botanical Province, WA, climate transects within and adjacent to [2021-06 update](#)

Space Enabled Research Group, MIT Media Lab [2019-12 systems](#)

Space Science and Engineering Center (SSEC), University of Wisconsin [2012-03 workshops](#)

Space-borne laser and radar ecosystem monitoring [2018-08 laser](#)

space-borne ecosystem monitoring using drones [2024-09 ecosystem](#)

space-time mapping, Soil Organic Carbon (SOC) [2024-11 spotlight](#)

Spanish National Research Council [2017-12 weeds](#)

Sparrow, Ashley [2021-08 update](#)

Sparrow, Ben [2012-06 assessing](#), [2012-10 mobile](#), [2013-12 scaling](#), [2014-09 collaboration](#), [2014-12 practical](#), [2015-06 condition](#), [2015-06 cyanobacteria](#), [2016-06 FAO](#), [2017-05 forests](#), [2017-09 sample](#), [2019-04 shaping](#), [2019-06 training](#), [2020-04 grass](#), [2020-06 trusted](#), [2020-07 effective](#), [2021-04 photosynthetic](#), [2022-12 treasure](#)

spatial datasets, SPEDDEXES for [2014-08 SPEDDEXES](#)

Spatial Network Analysis for Multimodal Urban Transport Systems (SNAMUTS) system [2020-02 liveability](#)

Spatial Sciences Group (University of Adelaide) [2019-08 Spatial](#)

monitoring condition of Australia's rangelands [2019-08 Spatial](#)

Specht, Alison [2011-12 wild](#), [2012-12 engaging](#), [2013-08 collaboration](#), [2014-12 ACEAS](#)

Specht, Raymond (Ray) [2020-06 update](#), [2021-02 update](#)

species documentation, importance for industry and economic growth [2021-06 cost-benefit](#)

species diversity, as predictors of environmental change [2020-03 environmental](#)

species turnover

botanical composition, Western Australian's sandplain ecosystem [2017-03 conserving](#)

under severe climate scenarios, SA [2018-07 climate](#)

specific leaf area, as biological barometer of environmental change in plants [2019-06 barometers](#)

SPEDDEXES (Spatially Explicit Data Discovery, Extraction and Evaluation Service) [2014-04 sky](#), [2014-08 SPEDDEXES](#)

Speldewinde, Peter [2021-09 Centre](#)

spiders

nocturnal hunting, camera traps quantify activity, complex desert ecosystems [2022-12 night](#)

wolf spiders interaction with lesser hairy footed dunnart, camera trap studies [2022-12 night](#)

spidery wattle (*Acacia araneosa*)

aerial survey, Flinders Ranges [2013-09 surveys](#)

survival, northern Flinders Ranges [2018-10 surveys](#)

spinifex grasslands, rainfall and ecosystem switch from carbon source to carbon sink [2019-12 sink](#)

sPlot Global Vegetation Database [2014-12 creating](#), [2018-12 vegetation](#)
Sporadanthus ferrugineus (giant cane rush), Kopuatai Bog, NZ [2020-07 Kopuatai](#)
spot assessment technique to survey koala scats, Karawatha Forest Park, Qld [2012-09 looking](#)
Spotlight on recent publications [2024-11 spotlight](#)
Sprigg, Doug [2013-09 surveys](#)
Staben, Grant [2017-02 Edwards](#)
stakeholder engagement and delivery [2012-04 engagement](#)
Standardising long-term monitoring of environmental carbon [2012-07 standardising](#)
Standards to assist conservation and decision-making [2021-03 standards](#)
Standish, Rachel [2018-10 drought](#), [2021-01 Butler](#), [2012-12 restoration](#)
Starkey, Ben [2022-05 commercial](#)
Starkey, Michael [2018-09 Cape York](#), [2018-10 Marchin](#), [2019-06 training](#), [2019-07 observatory](#)
State agencies give ÆKOS the thumbs up [2011-12 state](#)
The State of play: Australia's Threatened Species Index for 2022 [2023-02 state](#)
State of the Environment Report, 2011 [2014-02 landmark](#)
State of the Environment Report, 2016 [2019-08 mangroves](#)
State of the Environment Report, 2021 [2022-08 observing](#)
 comparison with *Australia's Environment* report for 2022 and other OECD countries
 similar SoE reports [2023-06 how](#)
 draft scoping documents for chapters in [2020-11 update](#)
 proposed framework [2020-08 update](#)
State of the Environment Reporting, EcoAssets projects to provide integrated data assets for [2021-11 delivering](#)
State Herbarium of South Australia, voucher specimens from Brookfield Conservation Park [2020-10 botanists](#)
Stavros, Natasha [2016-11 NASA](#)
STEM
 making it more attractive to girls and women [2013-01 acorn](#)
 promoted through Schools Weather and Air Quality (SWAQ) citizen science project [2021-09 Sydney](#)
 Superstar at TERN [2020-12 STEM](#)
 using Virtual Reality for [2020-02 ghost](#)
Stenson, Matt [2021-10 getting](#)
Stephens, Ruby E, Research using TERN data: flowers, biomes and a mountain of data [2022-07 research](#)
Stepping stones to better climate models [2018-07 stepping](#)
Steven, Andy [2012-03 coastal](#), [2012-07 study](#), [2012-12 improving](#), [2014-05 collaborating](#)
Stevens, Heather [2020-10 hot](#)
Stiglingh, Andrea [2019-06 training](#)
stingless bees, native, as agricultural crop pollinators [2020-03 environmental](#)
stock numbers, counting, drone use [2016-10 drones](#)
stocking rates and improved pasture models, Qld [2021-03 paddock](#)
Stol, Jacqui [2017-05 sound](#), [2019-12 Snowy](#)
Storer, Peter [2021-05 Brisbane](#)
Strahler, Alan [2017-04 London](#)
A strategic future for Australian higher education [2013-11 strategic](#)
stream monitoring, spatial modelling to predict health of streams [2012-02 decisions](#)
Streamlined data for environmental reporting [2022-08 streamlined](#)
streams, how carbon cycles through streams and rivers and its affect on tropical ecosystems

[2023-11 Chicago](#)

stress monitoring, ecosystems, Boyagin and Ridgefield sites, WA [2021-06 Boyagin](#)
stress monitoring infrastructure, installed at WA SuperSites [2020-10 monitoring](#), [2022-12 new](#)
Student challenge “brings text books to life” [2017-01 books](#)
Students gain skills, TREND gains data in symbiotic exchange [2013-04 students](#)
Students key to synthesis success [2013-11 students](#)
Students provide comprehensive record of the reef [2017-10 students](#)
Students visualise Perth’s water data [2021-08 students](#)
Study focuses on movement of carbon in estuaries [2012-07 study](#)
stygofauna [2012-02 creatures](#)
Suarez, Lola [2013-07 NATT](#)
subterranean fauna species in aquifers and mineral deposits, DNA barcoding identification [2012-02 creatures](#)
Summer Internship for Indigenous Peoples in Genomics (SING), Deakin University, 2019 [2021-03 ARC](#)
Summers, David [2019-04 shaping](#), [2019-06 training](#)
Super Science Initiative, funds TERN [2012-12 TERN](#)
superb fairy-wren (*Malurus cyaneus*), environmental causes of population decline [2018-08 song-bird](#)
Supersite portal gives snapshot of research [2011-12 portal](#)
Supersites get the measure of ecosystems [2011-12 SuperSite](#)
Superstars of STEM, TERN’s Samantha Monroe named among [2020-12 STEM](#)
Supervising Scientist [2019-01 virtual](#)
Supporting global impact science [2015-12 supporting](#)
Surface Elevation Table (SET), for wetland monitoring against sea-level rise [2023-12 coastal surface environment](#), and CZO [2019-07 treetop](#)
surface reflectance products, calibration and validation [2019-04 Mitchell](#)
surface soil samples, *n*-alkane distribution, correlation with general vegetation found over an area [2014-08 Howard](#), [2019-02 waxes](#)
surface–vegetation–atmospheric–transfer (SVAT) models [2014-11 forestry](#)
surveillance monitoring, as part of multi-scaled approach to effective ecosystem monitoring [2020-07 effective](#)
Surveys of Flinders Ranges use technology from 1930s and 2010s [2013-09 surveys](#)
Sustainable Development Goals *see* United Nations Sustainable Development Goals
sustainable fire management [2017-08 Kakadu](#)
Sustainable Timber Tasmania [2019-12 essential](#)
 biodiversity landscape approach to forest management [2019-08 Yee](#)
Sustaining the Australian Alps [2012-08 sustaining](#)
Sweatman, Carole [2014-01 science](#)
Sweeney, Susan [2012-12 special](#), [2013-02 access](#)
Sweet as Raspberry Pi: TERN’s new sensor technology for easier, cheaper ecosystem surveillance [2017-03 raspberry](#)
Swinbourne, Michael [2017-06 ecoEd](#)
Swinburne University of Technology [2018-10 Marchin](#)
Swiss Federal Institute of Technology, Zurich [2017-01 angry](#)
Switkowski, Ziggy [2021-09 pillars](#)
Sydney weather and air quality data now available from TERN [2021-09 Sydney](#)
Symon, David, in memoriam [2020-10 botanists](#)
System of Environmental-Economic Accounting (SEEA) reports (ABS) [2023-06 how](#)

Tahune Airwalk, TERN facilitated science on show at rebuilt [2019-12 essential](#)
Taking the long view on Australia's coastline [2012-05 taking](#)
Taking the pressure off Australia's stressed ecosystems [2012-02 pressure](#)
Taking the pulse of Australia's environment [2017-03 pulse](#)
Taking TERN soil tools to near neighbours and beyond [2017-04 soil](#)
tall eucalypt forests
aggregated retention method, to improve forestry policy, Warra SuperSite, Tas. [2012-08 research](#)
unique response to warmer temperatures, Tas. [2024-07 giants](#)
tall forest ecosystems
bushfire impact on water resources, Mountain ash forests [2023-12 bushfire](#)
ecosystem surveillance plots [2017-03 ecosystem](#)
tall wet forests, post-fire data on fuel loads, Tasmania [2016-03 Furlaud](#)
Tamayo, Bobby [2016-03 desert](#)
Tanami Indigenous biodiversity data released [2018-07 Tanami](#)
Tanami Regional Biodiversity Monitoring project [2018-07 Tanami](#)
Tandy, Alison [2014-09 Gibbons](#)
targeted monitoring, as part of multi-scaled approach to effective ecosystem monitoring [2020-07 effective](#)
Tarin, Tonantzin [2019-12 sink](#)
Tartu Observatory, Estonia [2015-01 Pisek](#), [2021-06 international](#)
Tasmania, Department of Primary Industries, Parks, Water and Environment [2011-12 SuperSite](#), [2015-06 platypus](#), [2017-10 platypus](#)
Tasmania Parks and Wildlife Service [2019-12 essential](#)
Tasmanian Forestry Insect Catalogue [2013-06 appreciating](#)
Tasmanian Herbarium [2020-04 grass](#)
Tasmanian Platypus Survey dataset [2015-06 platypus](#), [2017-10 platypus](#)
Tasmania's Midlands, exotic grass re-discovered after nearly 180 years [2020-04 grass](#)
taxonomic search capability added to ÆKOS portal [2012-10 AEKOS](#)
taxonomy, 12 new species within the genus *Xerochrysum* (Asteraceae: Gnaphalieae) [2023-01 fresh](#)
Tazik, David [2013-02 two](#)
Tea Bag Index project, environmental monitoring, SuperSites [2016-11 tea](#)
Tea time 4 science [2016-11 tea](#)
Team Toowoomba, wins Paddock to Plate Hack [2016-11 open](#)
Technical University of Lisbon, Portugal [2012-11 characterising](#)
Telstra, fibre networks cost-savings, using TERN's Australian Soil Classification Map [2022-03 soil](#)
temperature, relationship to aggression and crime [2020-10 hot](#)
temperature data, 2019 environmental indicator [2020-03 environment](#)
TERN
2025: a common vision [2015-12 vision](#)
achievements over the past five years (2019-23) [2023-12 TERN](#), [2023-12 update](#)
active in ESA's first symposium on open data in ecology [2016-03 open data](#)
and Universities Australia [2014-04 education](#), [2015-09 investment](#)
as custodian of CSIRO's long-term rainforest data sets [2022-05 climate](#)
as first Australian DataONE node [2015-06 DataONE](#)
as international model for success [2015-02 TERN](#)
at COP26 Earth Information Day [2021-10 TERN](#)

awarded CoreTrustSeal Certification [2024-09 update](#)
Barest Earth products [2021-02 Earth](#)
celebrates National Science Week with NCRIS collaboration [2022-08 TERN](#)
contribution to Greater Impact through Environmental Infrastructure Symposium,
Canberra, 2017 [2017-04 NCRIS](#), [2017-05 data](#)
Data Licensing Policy and Framework [2012-06 TERN](#), [2012-10 licensing](#), [2012-10 TERN](#)
develops new ecological survey data exchange standard [2022-03 TERN](#)
ecosystem data for teaching [2020-05 teaching](#)
expands its regional international collaboration [2014-12 TERN](#)
in a position to coordinate the spread of collaborative research [2013-02 refocus](#)
inclusivity of traditional knowledge in TERN's ecosystem database [2021-02 update](#)
interns [2023-04 update](#)
leads multi-national collaborations planning for a global ecosystem observatory [2016-03 global](#), [2017-10 observatory](#)
links with secondary education sector [2020-04 update](#)
makes NSW-government forest-monitoring data available for all [2022-07 forest](#)
new custodian of Threatened Species Index (TSX) [2021-07 threatened](#), [2021-07 update](#)
on the TV [2016-06 TV](#)
on the Web [2012-05 TERN](#)
overview video 2020 [2020-10 TERN](#)
pandemic and changed work practices [2020-03 update](#), [2020-04 update](#)
plot based monitoring *see* AusPlots
present and future [2020-10 TERN](#)
producing Australian Pest Fauna Monitoring Protocols [2022-07 pest](#)
public briefing session on science of extreme events, Canberra [2014-01 improving](#)
recognised by *Nature* as a recommended data repository for scientific data in the discipline
of ecology [2021-07 Nature](#)
role in EcoAssets project [2021-11 delivering](#)
role in national greenhouse gas accounting [2018-08 greenhouse](#)
role as observatory [2013-02 access](#)
sample collections empower Australian science [2014-05 sample](#)
seeks CoreTrustSeal certification of TERN e-infrastructure [2021-05 international](#)
showcases fire research and management infrastructure at Bushfire16 [2016-06 fire](#)
stakeholder engagement and delivery [2012-04 engagement](#)
standardised field survey protocols to provide consistent and comparable monitoring data
[2021-03 standards](#)
steps to an enduring legacy - research, informatics, synthesis and policy [2012-04 staff](#)
strategic plan 2023-28 [2024-07 update](#)
submission to National Research Infrastructure Capability Issues Paper [2016-09 ecosystems](#)
supports citizen science for long-term biodiversity monitoring of orchids [2022-03 citizen](#)
supports commercialisation success [2022-05 commercial](#)
Surveillance Method Training [2019-04 shaping](#)
takes soil information products across the Timor, Tasman, Coral Sea and beyond [2013-12 TERN](#)
teams up with Google to deliver Australian science to millions worldwide [2017-02 Google](#)
university, CSIRO and other research organisations as partners [2012-12 TERN](#)
webinar series, 2021 [2021-12 looking](#)
welcomes the new Ecosystem Science Council [2015-04 Council](#)
work with ASDC to scale out cloud-native drone capabilities [2020-05 drone](#)

workforce expansion in 2020-21 financial year [2020-10 TERN](#)
TERN Advisory Board
discusses independent audit of TERN's governance model [2020-07 update](#)
discusses security of access to sites for repeat monitoring and surveillance activities [2021-03 update](#)
discusses TERN's future trajectory and vision [2021-07 update](#)
member honoured by Journal of Ecology [2016-06 Journal](#)
new members [2020-11 update](#), [2021-10 update](#), [2022-08 update](#), [2023-03 update](#)
past member named WA Scientist of the Year [2012-02 Hobbs](#)
past members [2022-05 update](#), [2022-08 update](#)
refreshes conceptual framework which guides TERN's decision making about funding allocations [2022-05 update](#)
strategies to improve engagement with data users, particularly in industry [2022-08 update](#)
thoughts on the future [2020-10 TERN](#)
vale Dr Peter Woodgate [2023-01 vale](#)
welcomes new Chair, Hugh Possingham [2020-12 Possingham](#), [2021-03 update](#)
TERN 3rd Annual National Symposium, Adelaide, 2012
Best of times and the worst of times in ecology (Steve Morton's opening address) [2012-04 best](#)
Engagement: upping the ante [2012-04 engagement](#)
Focus on delivering data [2012-04 focus](#)
Past, present and future, including challenges [2012-04 TERN](#)
Romantics of conservation face off against the pragmatists (debate) [2012-04 romantics](#)
Staff, directors and partners highlight first steps to an enduring legacy [2012-04 staff](#)
TERN AET *see* Actual evapotranspiration
TERN-ANU Landscape Data Visualiser [2018-12 landscape](#), [2020-02 Centre](#), [2020-02 liveability](#), [2020-05 teaching](#)
TERN at ESA14 [2014-09 ESA14](#)
TERN at ESA18 [2018-11 ESA18](#)
TERN at ESA 2012 [2012-12 engaging](#)
TERN at ESA 2021 'Renewal' [2021-10 catch](#)
TERN at ESA 2023 'Biodiversity in a Changing World' [2023-06 exciting](#)
TERN at ESAus19 [2019-11 ESAus19](#)
TERN at ESAus20 [2020-11 ESAus20](#)
TERN Attribution Licence [2012-10 licensing](#)
TERN AusCover *see* AusCover
TERN AusPlots *see* AusPlots
TERN Australia Soil and Herbarium Collection facility in Adelaide officially opened [2022-12 treasure](#), [2022-12 update](#), [2023-12 TERN](#)
TERN – Australia's Ecosystem Observatory Network – highlights: 2018-2023 [2023-12 TERN](#)
TERN Australia's Land Observatory: addressing the global challenge of forecasting ecosystem responses to climate variability and change (review) [2019-08 synthesis](#)
TERN Biennial Science Symposium, July 2023 – call for abstracts [2022-12 Science](#), [2022-12 update](#)
TERN BioImages Portal [2017-03 raspberry](#)
TERN Biomass Plot Library [2016-10 drones](#), [2018-08 greenhouse](#)
TERN climate and land surface data helps identify climate refugia and map bushfires, their impacts and future hazards [2015-04 climate](#)
TERN data

assists government and industry-led sustainable grazing practices in Great Barrier Reef catchments [2021-08 TERN](#)
CoreTrustSeal Certification awarded [2024-09 update](#)
CoreTrustSeal Certification sought [2021-05 international](#)
national research drone data available to public through GeoNadir collaboration [2024-02 national](#)
peer-reviewed publications mentioning TERN data, sites or expertise [2024-11 spotlight](#)
use in water regulation [2022-05 TERN](#)
used in space station study of global climate [2018-07 TERN](#)
used to answer key ecological questions [2024-10 how](#)
TERN Data Discovery Portal (TDDP) [2012-04 focus](#), [2012-12 TERN](#), [2016-03 desert](#), [2016-12 Miech](#), [2017-03 ecosystem](#)
adopts Creative Commons 4.0 International suite of the licences [2016-06 discovering](#)
data available [2012-10 discovering](#), [2014-06 road](#)
ecosystem data sharing with German and Belgian organisations [2013-09 beer](#)
hosts ASN Data Base [2013-04 learners](#)
new biomass and phenocam data sets published [2022-07 biomass](#)
newest release aligned more with tools used in TERN's Data Services and Analytics Platform [2022-12 Portal](#)
provides access to ACEF datasets [2012-10 coastal](#)
released [2012-10 discovering](#), [2012-10 TERN](#)
technical changes to improve performance [2016-06 discovering](#)
version 5.0 update brings new features [2022-12 Portal](#), [2022-12 update](#)
Warra Tall Eucalypt SuperSite long-term datasets available via [2013-06 appreciating](#)
TERN Data Infrastructure [2023-12 TERN](#)
TERN data R package [2019-02 R package](#)
TERN Data Services and Analytics (TDSA)
highlights [2023-12 TERN](#)
TERN Data Discovery Portal newest release closer alignment with TDSA [2022-12 Portal](#)
TERN Data Update – microclimates in the tropics [2023-06 TERN](#)
TERN Delivers [2014-06 TERN](#)
TERN digital soil maps the next best thing for locked-down students [2021-09 TERN](#)
TERN Director
Director's update [2020-03 update](#) (as well as every issue)
see also Clancy, Tim; Morris, Beryl; Phinn, Stuart
TERN EcoImage platform: robust data management for ecosystem images [2020-11 ESAus20](#)
TERN Ecosystem Processes platform [2020-04 remote](#)
TERN Ecosystem Surveillance platform [2020-04 remote](#)
future priorities [2019-04 shaping](#)
TERN ecosystem surveillance plots/sites [2017-09 sample](#), [2018-12 vegetation](#)
582 plots/sites sampled by TERN, across rangelands and tall forest ecosystems [2017-03 ecosystem](#)
Cape York Peninsula [2018-09 Cape York](#)
expansion across climatic envelopes [2018-09 Cape York](#)
field trip [2019-11 ESAus19](#)
gap filling to determine optimal location of new monitoring plots in bioregions [2021-02 gap](#)
leaf area index data collection, TERN poll on usage [2030-03 leaf](#)
repeat monitoring, Arkaroola Wilderness Sanctuary [2018-10 surveys](#)
Tasmanian Midlands [2020-04 grass](#)

TERN adds 24 new permanent plots in NSW and Queensland [2019-07 observatory](#)
TERN-enabled research synthesis paper [2019-08 synthesis](#)
TERN Executive Group
2020-23 strategic plan [2020-11 update](#)
virtual strategic planning day [2020-08 update](#), [2020-09 update](#), [2020-10 update](#)
TERN Feedback Survey [2019-01 survey](#), [2021-06 update](#)
summary of results [2012-11 TERN](#), [2019-06 surveys](#)
TERN funding
consequences [2015-12 vision](#)
for biomass and carbon measurement project [2015-04 funding](#)
for NERP's enhancing long-term surveillance monitoring across Australia project [2014-08 national](#)
from 2021 NRI Roadmap [2022-05 update](#)
from NCRIS [2012-12 TERN](#), [2014-06 TERN](#), [2017-05 data](#), [2018-01 investment](#), [2023-01 update](#)
from Queensland Government's Research Infrastructure Co-investment Fund [2020-06 Queensland](#), [2020-06 update](#), [2021-05 Brisbane](#), [2023-06 TERN](#), [2024-07 update](#)
from Super Science Initiative [2012-12 TERN](#)
new 5-year funding until June 2028 [2023-12 update](#)
Queensland Government contributions [2012-12 TERN](#)
through 2020 Research Infrastructure Investment Plan [2020-11 update](#)
to replace ecosystem monitoring equipment damaged by bushfires [2020-08 update](#), [2020-09 update](#)
TERN HQ [2023-12 TERN](#)
TERN infrastructure [2012-12 TERN](#)
burns but lives to tell the tale, Calperum Mallee SuperSite [2014-01 TERN](#)
contributing to sustainability of north-east Victorian industries [2013-07 tall](#)
critical for National Environmental Science Programme [2015-01 critical](#)
data infrastructure [2012-10 TERN](#), [2013-02 access](#), [2013-06 data](#), [2014-06 road](#)
'hard' and 'soft' infrastructure [2014-06 TERN](#)
overview [2012-10 TERN](#)
pilot project to introduce eddy covariance flux sensors into the Burdekin [2020-05 update](#)
safeguarding Australia's critical research infrastructure [2014-06 safeguarding](#)
supporting ecosystem science and management across the NT [2013-07 NATT](#)
supports international 'dream team' [2013-08 TERN](#)
use in university undergraduate curriculum [2013-11 universities](#)
see also ÆKOS; AusCover; AusPlots; Australian Centre for Ecological Analysis and Synthesis; Australian Coastal Ecosystems Facility; Australian SuperSite Network; Australian Transect Network; Eco-informatics; eMAST; LTERN; Multi-Scale Plot Network; NCRIS; OzFlux; Soil and Landscape Grid
TERN joins international Network-of-Networks to help global drought research [2024-07 network](#)
TERN Landscapes, partners and data products [2023-12 TERN](#)
TERN Landscapes – 2024 highlights [2024-12 landscapes](#)
TERN Mangrove Data Portal and Monitoring System [2018-06 mangrove](#), [2019-07 share](#), [2019-08 mangrove](#)
TERN newsletter, index of articles [2023-01 index](#)
TERN Ontology [2022-03 TERN](#)
TERN partnerships
difficulties of forming data partnerships [2012-10 partnerships](#)

with FAO [2020-04 update](#)
with NASA [2015-02 NASA](#), [2018-07 TERN](#), [2019-12 Snowy](#)
with NEON [2013-02 two](#), [2013-08 like](#)
with newly launched Australian Mountain Research Facility [2023-01 partners](#), [2023-01 update](#)

TERN pillars: Biodiversity and Ecosystems; Land and Terrain; and Carbon and Water [2020-08 update](#), [2020-10 update](#)

TERN-Plot ontology and controlled vocabularies [2019-09 integrating](#)

TERN publications
catalogued 2009-2019 [2019-03 publications](#)
Ecosystem data for the nation: TERN's achievements 2009-2014 [2015-12 vision](#)
impact and number of [2015-12 impact](#)
Observing Environmental Change in Australia (celebrating TERN's first ten years) [2019-05 observing](#)

TERN research, improves forestry policy and practice [2014-11 forestry](#)

TERN Science Advisory Committee [2021-11 TERN](#), [2023-02 update](#)
first 2021 meeting and membership [2021-08 update](#)
new members [2021-10 update](#)
welcomes Jim Walker [2021-11 TERN](#)

TERN Science Symposium, July 2021 [2021-03 update](#), [2021-06 Science](#), [2021-07 update](#)
recap and revelations [2021-07 Science](#)

TERN Soil & Plant Sample Library [2019-02 waxes](#)
moved to University of Adelaide's Waite Campus [2017-09 sample](#)

TERN Soil Data Portal [2013-07 mapping](#)

TERN staff
changes in knowledge brokering and communications strategy [2014-06 evolution](#)
new engagement, science communication and education and training team members [2022-05 update](#)

TERN Stakeholder Survey *see* TERN Feedback Survey

TERN steps up to leading role on ecology stage [2013-10 western](#)

TERN Strategic Planning Workshop, Brisbane [2024-12 update](#)

TERN Suite of Licences [2012-10 licensing](#), [2013-06 ecosystem](#), [2016-06 discovering](#)

TERN SuperSites BioImage Portal [2016-06 smile](#), [2017-03 raspberry](#)

TERN Symposium 2013
carbon data improving models, research and policy [2013-02 carbon](#)
The challenge of open data [2013-02 challenge](#)
discussions [2013-02 challenge](#), [2013-02 TERN](#)
opening address by Chief Scientist [2013-02 pleasure](#)
plenary speakers [2013-01 your](#)
preview guide [2013-01 your](#)
refocus research onto insects, invertebrates and micro-organisms [2013-02 refocus](#)
should science and scientists have a greater influence on public policy? [2013-01 ideas](#)
special session on carbon and climate variability [2012-12 special](#)
TERN in ideal position to lead the world in IUCN assessment of ecosystems [2013-02 TERN](#)
two launches open TERN's 2013 symposium [2013-02 two](#)

TERN tools [2023-12 TERN](#)

TERN Vegetation Data Synthesis Challenge
Tree Height + Diameter at Breast Height (DBH) data workshop [2024-10 how](#)
workshops make headway for data sharing and accessibility [2023-02 TERN](#), [2023-02](#)

[update](#)

TERN Wombat Stringybark Eucalypt Flux Tower reopens [2020-08 Wombat](#)

TERN's Australian Soil Classification Map, updated [2022-03 soil](#)

TERN's capabilities are being used to increase understanding and help reduce the impact of extreme events [2015-04 capabilities](#)

TERN's industry and government engagement [2022-07 update](#), [2022-08 update](#)

TERN's integrated ecosystem-observing infrastructure

for groundwater resource studies [2017-08 Earth](#)

interdependence as key to co-location of sensors and cross-site interactions and

international connectedness [2017-08 Earth](#)

TERN's Landscapes platform [2020-04 remote](#), [2021-07 all-weather](#)

TERN's national ecosystem data infrastructure: an overview [2012-10 TERN](#)

TERN's regional network, South Korea added to [2017-09 Korea](#)

TERN's responsible data publishing policy [2017-07 responsible](#), [2018-07 Tanami](#)

TERN's Soil and Landscape Grid of Australia *see* Soil and Landscape Grid of Australia

TERN's web-based app tested by Brisbane bird watchers [2022-08 web-based](#)

Terrain NRM [2014-01 science](#)

TerraLuma [2013-09 AusCover](#), [2016-10 drones](#)

terrestrial biosphere, temperature tipping point shifts Earth from carbon 'sink' to carbon 'source' [2021-03 ecosystem](#)

terrestrial carbon budget modelling, Australian annual [2016-10 Haverd](#)

terrestrial carbon sinks

ecosystems switch from carbon sink to source during heat waves [2017-01 angry](#)

and increased global forest cover in dryland ecosystems [2017-05 forests](#)

temperature tipping point shifts Earth from carbon 'sink' to carbon 'source' [2021-03 ecosystem](#)

terrestrial ecosystems

sensitivity to drought [2017-01 global](#)

three main factors controlling their function and their predicted responses to climate change [2021-09 control](#)

terrestrial laser scanning [2019-04 shaping](#),

comparison testing, Karawatha Forest Park, Brisbane [2013-08 TERN](#)

DWEL scanner use [2014-11 early](#), [2014-10 echidna](#), [2015-02 lasers](#)

forest canopy, Wirra Tall Eucalypt SuperSite, Tasmania [2015-02 lasers](#)

TERN funded to provide aboveground biomass estimates in terrestrial ecosystems [2015-04 funding](#)

use in forest ecology, meeting, London [2017-04 London](#)

use with drones to create virtual forests at TERN sites [2018-11 forests](#)

Terrestrial Laser Scanning International Interest Group (TLSIIG) [2013-08 TERN](#), [2017-04 London](#),

Testing environmental causes of population decline in an Australian song-bird (PhD project) [2018-08 song-bird](#)

Thackway, Richard [2011-12 wild](#), [2012-08 tracking](#), [2012-10 enabling](#)

thermal buffer ability (TBA), of forests and wetlands to diminish extreme event impacts [2021-01 forests](#)

Thibaudon, Michel [2013-11 students](#)

Thiele, Kevin [2021-06 cost-benefit](#), [2022-03 TERN](#)

Thomann, Evelynne [2018-10 drought](#)

Thompson, Ross [2020-05 Canberra](#)

Thompson, Sally [2021-08 students](#), [2022-05 CZO](#), [2023-04 real](#)

Thompson, Scott [2017-07 responsible](#)
Thornton, Craig [2021-08 TERN](#)
threatened species
Australia [2015-12 vision](#), [2019-05 environment](#), [2022-03 environment](#)
data records, Southern Tanami IPA [2018-07 Tanami](#)
occurrences, terrestrial and marine ecoregions, summary data [2022-08 streamlined](#)
Threatened Species Index (TSX) [2021-09 Australians](#)
2024 update covering birds, mammals, plant and frogs [2024-12 threatened](#)
and citizen science orchid data through Wild Orchid Watch app [2022-03 citizen](#)
data in *Australia's Environment in 2022* report [2023-03 environment](#)
data in *Australia's Environment in 2023* report [2024-03 environment](#)
has moved to TERN [2021-07 threatened](#), [2021-07 update](#)
pilot frog data added in 2024 [2024-12 threatened](#), [2024-12 update](#)
project [2018-06 threatened](#)
state of play for 2022 [2023-02 state](#), [2023-02 update](#)
to adopt TERN's new ecological data exchange standard [2022-03 TERN](#)
Threatened Species Recovery Hub (NESP) [2015-01 critical](#), [2016-09 Booderee](#), [2018-06](#)
[threatened](#), [2021-09 Australians](#)
Threatened Species Scientific Committee [2015-12 vision](#)
threatened woodland communities, ecosystem model that improves conservation planning for
woodlands [2021-09 ecologists](#)
3D-Forest project [2018-11 forests](#)
Three Parks Savanna Fire Effects Plot Network [2017-07 Kakadu](#), [2017-08 Kakadu](#)
effect of extreme fires on woodland savannas [2013-05 collaborative](#)
effects of management-imposed fire regimes [2014-03 long-term](#)
five-yearly survey of vegetation and fauna [2013-05 collaborative](#)
monitoring program [2012-07 standardising](#), [2015-04 ecologically](#)
see also Kakadu National Park; Litchfield National Park; Nitmiluk National Park
thunderstorm asthma [2013-03 greater](#)
prediction [2016-12 relief](#)
Thurgate, Nikki [2011-09 LAMPS](#), [2011-11 first](#), [2012-02 full](#), [2012-06 nuances](#), [2012-09](#)
[AEKOS](#), [2012-10 ecology](#), [2012-10 mobile](#), [2012-12 engaging](#), [2013-02 two](#), [2013-10](#)
[TERN](#), [2014-06 evolution](#), [2015-02 TERN](#), [2015-03 AuScribe](#), [2015-12 supporting](#), [2017-](#)
[10 observatory](#)
thylacines, Cape York Peninsula, Qld [2019-09 Centre](#)
Ti Tree East Ozflux site [2019-12 sink](#), [2020-09 Alice](#)
tidal wetlands, monitoring using Surface Elevation Tables (SETs) to assess vulnerability to
sea-level rise [2023-12 coastal](#), [2024-09 tidal](#), [2024-12 mangrove](#)
Time is honey: Predicting future honey harvests using remote sensing and weather data [2020-](#)
[07 honey](#)
Timor, payments for environmental services to Indigenous peoples [2012-12 Indigenous](#)
Tinaroo Environmental Education Centre (TEEC), FNQ, ClimateWatch trails [2016-03](#)
[Furlaud](#)
Tjoelker, Mark [2019-07 Hawkesbury](#)
Tjuntjuntjara Rangers [2014-09 collaboration](#)
Today's data problems become tomorrow's worldwide research platform [2012-05 today](#)
Tokmakoff, Andrew [2014-12 practical](#), [2015-03 AuScribe](#), [2015-06 cyanobacteria](#), [2019-06](#)
[training](#), [2023-02 update](#)
Toomes, Adam [2019-06 training](#)
Top End

conference on environmental change in Asia-Pacific [2018-08 Top End](#)
ecologically appropriate and economically viable fire management [2015-04 ecologically](#)
fire-prone, management [2017-07 Kakadu](#), [2017-08 Kakadu](#)
fire-scar mapping [2014-07 Jacklyn](#)
fire severity maps [2017-02 Edwards](#)
NASA land mapping, with an eye to agriculture [2013-07 mapping](#)
Top 3 things that control ecosystem behaviour revealed [2021-09 control](#)
Torok, Simon [2019-05 observing](#)
total solar eclipse, acoustic sensors to measure bird dawn chorus during, FNQ Rainforest
SuperSite [2012-10 eclipsed](#)
A tour of TERN's Snowy Mountains research SuperSite [2019-12 Snowy](#)
Tour TERN's outback monitoring SuperSite [2022-08 tour](#)
Tour TERN's rainforest monitoring SuperSite [2021-11 tour](#)
Tourists volunteer time and passion for Daintree science effort [2012-08 tourists](#)
Towards a global ecosystem observatory [2016-03 global](#), [2017-10 observatory](#)
Towsey, Michael [2012-10 eclipsed](#)
Tozer, Mark [2012-09 understanding](#)
Tracking the transformation of vegetated landscapes [2012-08 tracking](#)
Train with us! [2019-02 train](#)
training and education
ANU undergraduates field studies at Booderee National Park [2014-09 Gibbons](#)
ecoEd [2017-06 ecoEd](#), [2019-01 ecoEd](#), [2019-06 recognition](#)
practical training in plot-based ecological monitoring in rangeland ecosystems [2014-12](#)
[practical](#), [2019-02 train](#), [2019-06 training](#)
SuperSites support training opportunities for next generation of ecosystem scientists [2014-](#)
[09 nation-wide](#)
Surveillance Method Training [2019-04 shaping](#)
Transect for Environmental Monitoring and Decision Making (TREND) [2014-02 wake-up](#),
[2016-09 biodiversity](#), [2017-09 sample](#)
changing climate-change science into policy [2013-02 carbon](#)
Citizen Science App
featured on Channel Ten's 'Scope: Science TV for Kids' [2016-06 TV](#)
photos of controlled burns, Cleland Conservation Park, Adelaide [2013-11 smile](#)
citizen science program [2013-04 students](#)
delivers science for land-use planning [2012-08 TREND](#)
flowering time shift and changing climate [2012-09 plants](#)
higher education scholarships granted to students to work on [2013-04 developing](#)
mobile phone app for use by citizens [2012-10 ecology](#)
raises community awareness at Earth Station festival, Adelaide [2011-11 science](#)
TERN field team revisiting and resampling sites in South Australia [2018-09 Cape York](#),
[2018-10 surveys](#)
vision praised at launch [2012-05 TREND](#)
website launched at LTERN Adelaide office [2011-10 science](#)
translocations, endangered species, Doole Island, Exmouth Gulf of Western Australia [2021-](#)
[09 Centre](#)
transpiration and photosynthesis decoupling during heatwaves, woodland trees [2019-04 sweat](#)
Treasure trove of images from space to boost local research [2012-12 treasure](#)
The treasures of the south-west sandplains now revealed [2015-02 treasures](#)
trees
business case for trees on farms [2020-08 training](#)

decoupling photosynthesis and transpiration during heat extremes [2019-04 sweat](#)
extreme heatwave tolerance via sustained transpirational cooling and increased leaf thermal tolerance [2019-04 sweat](#)
long-term data sets, CSIRO's tropical forest plot network [2022-05 climate](#)
Treetop to bedrock: understanding resilience of Australia's Critical Zone to human impact [2019-07 treetop](#)
TREND *see* Transect for Environmental Monitoring and Decision Making
Tripovich, Joy [2019-01 virtual](#)
tropical ecosystems, how carbon cycles through streams and rivers and its affect on [2023-11 Chicago](#)
tropical forests
conservation, PES projects, developing countries [2012-12 Indigenous](#)
Daintree Drought Experiment [2014-01 Daintree](#), [2014-03 hives](#), [2017-02 raincoat](#), [2017-12 raincoat](#), [2019-09 Centre](#)
inventory, Papua New Guinea [2019-09 rainforest](#)
lianas role in fire protection [2021-08 University](#)
virtual, biomass measurements [2018-11 forests](#)
tropical monsoons, and Australian fire patterns [2012-11 Australian](#)
tropical peatlands, restoration and monitoring, Kalimantan, Indonesia [2019-10 counting](#)
Tropical Rainforest Plot Network [2014-01 science](#), [2014-03 long-term](#)
tropical rainforests
Connell Rainforest Plot Network, long-term research [2015-01 long-term](#)
Digital Earth Australia tests TERN's Robson Creek Rainforest SuperSite as s UAV validation site [2022-12 Digital](#)
tropical savanna ecosystems
carbon movement from vegetation into soils then groundwater [2014-03 plumbing](#), [2015-05 plumbing](#)
clash between sensitive science infrastructure and seasonal bushfires [2018-09 sensitive](#)
cyclones impact on carbon emissions [2015-04 capabilities](#)
fire characterisation [2012-11 characterising](#)
fire severity mapping [2012-11 mapping](#), [2017-02 Edwards](#)
groundwater acidity, northern Australia [2014-03 plumbing](#), [2015-05 plumbing](#)
impact of cattle grazing on ants [2015-09 living](#)
impact of cyclones on [2020-01 safeguarding](#)
tropical savanna eucalypts, resistance to water stress [2017-11 Peters](#)
Trower, Mark [2014-12 practical](#)
Trusted environmental monitoring protocol [2020-06 trusted](#)
Trusted Information Sharing Network (TISN) groups [2014-06 safeguarding](#)
TRY plant trait database, open access to [2013-09 beer](#)
Tucker, David [2013-11 future](#), [2024-02 art](#)
Tulloch, Ayesha [2020-11 ESAus20](#), [2023-02 state](#)
Tumbarumba OzFlux station
data accessed by overseas researchers [2016-03 flux](#)
joins forces with Tumbarumba Wet Eucalypt SuperSite to measure effects of logging [2012-08 flux](#)
Tumbarumba Wet Eucalypt SuperSite [2012-06 ASN](#)
Bago State Forest, NSW [2019-08 Copernicus](#)
bird species [2017-05 data](#)
bushfire impact [2020-01 prototype](#), [2020-05 update](#), [2020-08 update](#)
Copernicus GBOV radiometer installation on ecosystem monitoring tower [2019-08](#)

[Copernicus](#)

CosmOz sensor installed [2013-08 cosmic](#)
guided tour of [2019-12 Snowy](#)
join forces with OzFlux station to measure effects of logging [2012-08 flux](#)
logging practice affect on carbon and water entering, stored in and leaving the forest [2014-11 forestry](#)
photosphere [2014-10 armchair](#)
plant fluorescence sensors installed, to record vegetation productivity and stress [2020-01 prototype](#)
provides audio component for *Ghost Trees* [2020-02 ghost](#)
supports global satellite monitoring programs [2019-12 Snowy](#)
Wood Block Decomposition 12 Month Mass Loss Assessment [2019-04 TERN data](#)
Turia, Ruth [2019-09 rainforest](#)
Turner, David [2011-12 state](#), [2012-10 data](#), [2012-12 engaging](#)
Turner, John [2017-06 decades](#)
Turner, Pep [2023-06 exciting](#)
Turpin, Gerry [2014-12 ACEAS](#)
turtles, National Marine Turtle Database [2013-01 new](#)
tussock grasslands, impact of livestock grazing [2014-02 experience](#)
Tuteja, Narendra Kumar [2019-12 systems](#)

Udy, James [2013-09 visualising](#)
Ugbaje, Sebastien [2024-11 spotlight](#)
ultrasound recording, microbat calls for identification purposes [2023-03 bat](#)
Umea University, Sweden [2016-11 tea](#)
UN-REDD Programme [2012-05 new](#), [2012-07 detecting](#), [2015-04 funding](#)
National Forestry Inventory (PNG) project photos [2019-09 rainforest](#)
PES projects [2012-12 Indigenous](#)
Understanding ecosystem dynamics over the long term [2012-09 understanding](#)
United Nations Framework Convention on Climate Change (UCFCCC), TERN represented at Glasgow COP26 Earth Information Day 2021 [2021-10 TERN](#)
United Nations Sustainable Development Goals
Big Earth Data support 2030 SDG Agenda [2019-07 share](#)
essential environmental measures [2017-10 observatory](#)
Goal 15 - Life on Land [2018-06 mangrove](#)
'Kyoto Statement' on Asia-Pacific actions [2018-11 Kyoto](#)
national research infrastructure projects to help Australia meet the [2021-09 pillars](#)
Planet A Local SDG Program [2020-04 Deakin](#)
TERN Mangrove Portal assisting policy development [2019-07 share](#), [2019-08 mangrove](#)
United Nations University [2012-05 new](#), [2012-12 Indigenous](#)
United States *see* US
A universal model for predicting plant CO₂ uptake [2017-09 universal](#)
Universitas Palangka Raya, Indonesia [2019-10 counting](#)
Universities Australia, and TERN [2014-04 education](#), [2015-09 investment](#)
University of Adelaide
as member of CZO network [2021-01 monitoring](#)
as operator of Eco-informatics *see* Eco-informatics
as TERN strategic partner [2013-11 strategic](#)
Australian Centre for Visual Technologies [2014-10 measuring](#)
Career and Research Skills Training [2019-02 train](#)

ecosystem surveillance [2023-12 TERN](#)
Environment Institute [2022-03 Institute](#)
funding for TERN [2019-07 treetop](#)
involvement in TREND [2011-10 science](#)
new collaborations with NCRIS [2015-12 vision](#)
post-doctoral research [2014-05 SHaRED](#)
post-graduate research [2011-12 SuperSite](#), [2014-05 sample](#), [2014-08 Howard](#), [2019-02 waxes](#), [2022-03 Institute](#)
representative on TERN Advisory Board [2021-10 update](#)
researchers [2011-10 ACEAS](#), [2012-02 decisions](#), [2012-07 carbon](#), [2012-08 imagining](#), [2014-10 quiet](#), [2012-12 special](#), [2013-02 TERN](#), [2014-01 TERN](#), [2014-04 education](#), [2015-03 AuScribe](#), [2016-03 open data](#), [2016-11 open](#), [2017-12 weeds](#), [2018-03 map](#), [2018-05 Doolette](#), [2018-07 climate](#), [2018-09 data](#), [2018-12 vegetation](#), [2019-04 shaping](#), [2019-07 treetop](#), [2019-11 drug](#), [2020-07 effective](#), [2020-09 Kangaroo](#), [2020-11 Calperum](#), [2020-11 researcher](#), [2020-12 STEM](#), [2021-04 photosynthetic](#), [2021-10 monitoring](#), [2022-05 CZO](#), [2022-08 vegetation](#), [2024-01 extending](#)
runs rangelands survey protocol training [2014-12 practical](#)
School of Agriculture, Food and Wine [2018-05 Doolette](#)
School of Biological Sciences [2017-01 fire](#), [2019-08 Spatial](#)
Spatial Sciences Group [2019-08 Spatial](#)
students study regeneration of natural vegetation at Koonamore Vegetation Reserve [2015-09 track](#)
Waite Campus, houses national terrestrial ecosystems sample library [2017-09 sample](#)
University of Alberta [2013-12 several](#)
Centre for Earth Observation Sciences [2014-01 watchful](#)
University of Ballarat [2013-07 tall](#)
University of Cádiz [2020-09 changing](#)
University of California - Berkeley [2012-06 new](#)
University of Canberra [2013-12 several](#)
Institute for Applied Ecology [2020-05 Canberra](#)
University of Geneva [2024-01 data](#)
University of Massachusetts [2012-09 infrastructure](#), [2013-08 TERN](#)
University of Melbourne
hosts Melbourne Science Hackfest [2016-03 hackathon](#)
postgraduate subjects hosted at Victorian Dry Eucalypts SuperSite [2013-04 soil](#), [2014-09 nation-wide](#)
researchers [2012-09 analysis](#), [2013-07 NATT](#), [2013-08 Bogong](#), [2016-09 Booderee](#), [2020-08 Wombat](#), [2021-09 ecologists](#), [2024-11 heat](#)
University of Minnesota, College of Biological Studies [2019-11 biodiversity](#)
University of New England
Newholme Smart Farm, ecosystem surveillance sites [2019-07 observatory](#)
SMART Farms [2020-06 SMART](#)
University of New South Wales
as member of CZO network [2021-01 monitoring](#)
fire danger projections [2016-03 fire](#)
Fowlers Gap Research Station [2016-10 drones](#)
hosts ARC Centre of Excellence for Climate System Science [2018-07 stepping](#)
mangrove monitoring collaboration [2018-06 mangrove](#)
researcher honoured [2013-12 collaborative](#)
researchers [2012-07 working](#), [2012-09 understanding](#), [2013-02 TERN](#), [2016-03 satellite](#),

[2016-10 drones](#), [2019-07 share](#), [2019-07 treetop](#)
Schools Weather and Air Quality (SWAQ) citizen science project [2021-09 Sydney](#)
SPEDDEXES collaborative development [2014-08 SPEDDEXES](#)
University of Queensland
as TERN host [2018-07 TERN](#), [2023-12 TERN](#)
as TERN strategic partner [2013-11 strategic](#)
Centre for Biodiversity and Conservation Science [2023-02 state](#)
Centre for Mined Land Rehabilitation [2019-01 mine](#)
centre's data used in space station study of global climate [2018-06 space](#)
collaborative mapping, Geo-Wiki project [2012-10 AusCover](#)
Faculty of Science, Live Learning Library [2017-10 students](#)
Heron Island Research Station [2017-10 students](#)
incorporation of traditional knowledge into Faculty of Science degree curricula [2021-11 TERN](#)
Joint Remote Sensing Research Program *see* Joint Remote Sensing Research Program
Library analysis of peer-reviewed publications mentioning TERN data, sites or expertise [2024-11 spotlight](#)
Lung and Allergy Research Centre [2015-06 Davies](#)
Masters research [2011-11 exploring](#)
Moreton Bay Research Station, North Stradbroke Island [2019-03 Asia](#)
new collaborations with NCRIS [2015-12 vision](#)
PhD research [2024-09 tidal](#)
post-doctoral research [2013-11 students](#)
Queensland Alliance for Agriculture and Food Innovation [2017-07 Potgieter](#)
Remote Sensing Centre collaborator [2019-04 Mitchell](#)
Remote Sensing Research Centre [2019-06 remote](#)
representative on TERN's Science Advisory Committee [2021-10 update](#)
research at Warra Tall Eucalypt SuperSite [2015-02 lasers](#)
Research Computing Centre [2018-06 threatened](#)
researcher leads Threatened Species Recovery Hub of NERP [2015-01 critical](#)
researchers [2011-09 despotic](#), [2012-07 working](#), [2012-11 helping](#), [2012-12 engaging](#),
[2013-03 greater](#), [2014-04 education](#), [2014-05 ensuring](#), [2014-05 gourmet](#), [2016-03 satellite](#),
[2017-04 London](#), [2018-06 threatened](#), [2022-08 observing](#), [2024-09 fostering](#)
signs MoU with Korea's National Institute of Ecology (NIE) [2019-03 Asia](#)
SPEDDEXES collaborative development [2014-08 SPEDDEXES](#)
TERN Data Services and Analytics (TDSA) platform [2023-12 TERN](#)
Threatened Species Index continues to operate out of [2021-07 threatened](#)
University of Reading, UK [2017-09 sample](#)
University of Southern Queensland
Remote Sensing Centre collaborator [2019-04 Mitchell](#)
researchers [2020-08 update](#), [2021-03 paddock](#)
Soil Moisture Integration and Prediction System collaborator [2020-02 cosmic](#)
University of Sydney
as collaborator in Soil and Landscape Grid of Australia [2011-11 world](#)
as collaborator in space-time mapping of Soil Organic Carbon (SOC) [2024-11 spotlight](#)
C3 Remote Sensing Research Group [2015-12 Maes](#)
Centre for Rural Health [2019-01 virtual](#)
conducts extensive training on use of Soil and Landscape Grid of Australia [2013-12 TERN](#)
Desert Ecology Research Group [2016-03 desert](#), [2016-11 tea](#), [2017-01 global](#), [2018-07 Tanami](#),
[2018-09 incomplete](#), [2022-12 night](#)

Digital soil mapping of lithium in Australia [2023-09 predicting](#)
post-doctoral research [2013-11 plot](#)
researchers [2011-12 wild](#), [2012-09 boom](#), [2012-12 engaging](#), [2013-02 TERN](#), [2014-11 mice](#), [2016-03 fire](#), [2016-03 open data](#), [2017-04 soil](#), [2018-10 Marchin](#), [2019-01 virtual](#), [2019-11 biodiversity](#), [2020-09 changing](#), [2020-10 hot](#)
Soil and Landscape Grid collaborator [2014-11 National](#)
Soil Moisture Integration and Prediction System collaborator [2020-02 cosmic](#), [2021-10 getting](#)

University of Tasmania
ARC Industrial Transformation Training Centre for Forest Value [2020-08 training](#)
ecosystem monitoring using drones - a survey [2019-10 drones](#)
post-doctoral research [2020-08 training](#)
post-graduate research [2016-03 Furlaud](#)
research at Warra Tall Eucalypt SuperSite [2015-02 lasers](#), [2019-03 learning](#), [2019-12 essential](#), [2021-04 Warra](#)
researchers [2012-11 fire](#), [2013-06 appreciating](#), [2013-07 agriculture](#), [2013-09 AusCover](#), [2016-10 drones](#), [2016-11 Buettel](#), [2019-12 essential](#),
School of Plant Sciences [2013-01 seeing](#)

University of Technology, Sydney
as member of CZO network [2021-01 monitoring](#)
Ecosystem Dynamics Health and Resilience research program [2019-10 pollen](#)
researchers [2012-02 cross-Tasman](#), [2012-12 special](#), [2013-01 seeing](#), [2013-08 ecosystem](#), [2014-01 ecosystem](#), [2015-03 phenology](#), [2016-06 budding](#), [2016-12 drought](#), [2016-12 relief](#), [2017-01 angry](#), [2017-05 data](#), [2017-07 breathing](#), [2019-07 treetop](#), [2019-09 camera](#), [2019-12 sink](#), [2020-03 investigating](#), [2020-04 erosion](#), [2020-09 Alice](#)

University of the Sunshine Coast
as member of CZO network [2021-01 monitoring](#), [2024-01 extending](#)
Forest Research Institute [2021-08 University](#)

University of Tuscia, Italy [2017-07 breathing](#)

University of Waikato [2020-07 Kopuatai](#), [2021-03 ecosystem](#)

University of Western Australia
as member of CZO network [2021-01 monitoring](#)
Centre of Excellence in Natural Resource Management [2021-09 Centre](#)
International Gravity Observatory [2013-09 flux](#), [2017-08 Earth](#)
Environmental Engineering Design Master's students build interactive data visualisation website [2021-08 students](#)
Oceans Institute [2019-04 ecocloud](#)
researchers [2017-03 conserving](#), [2019-02 Raiter](#), [2019-07 treetop](#), [2020-01 prototype](#), [2021-01 forests](#), [2021-03 Howard](#), [2021-06 Boyagin](#), [2022-05 CZO](#), [2022-05 long-term](#), [2023-04 real](#)
Ridgefield site, VMS real-time soil monitoring [2023-04 real](#)
School of Animal Biology [2019-04 ecocloud](#)

University of Western Sydney *see* Western Sydney University

University of Wollongong [2016-10 drones](#)
Centre of Excellence for Australian Biodiversity and Heritage [2021-03 ARC](#)

University of Wyoming, Biodiversity Institute, launches the Global Vegetation Project [2021-04 putting](#)

Unmack, Peter [2020-05 Canberra](#)

Unmanned Aerial Vehicles (UAVs)
detecting landscape change [2016-10 drones](#)

Digital Earth Australia tests TERNs Robson Creek Rainforest SuperSite as a UAV validation site [2022-12 Digital](#)
see also drones

unmanned aircraft systems (UAS), for environmental remote sensing, Antarctica [2013-09 AusCover](#)

Unmanned Aircraft Systems for Remote Sensing (UAS4RS) conference, 3rd annual [2017-06 pictures](#)

Unscrambling colour variation in Aussie birds' eggs [2019-05 birds eggs](#)

unused agricultural land, environmental restoration, wheatbelt, WA [2012-12 restoration](#)

Updated Australian Soil Classification Map [2022-03 soil](#)

Updated data from 33 land-atmosphere flux stations now available [2022-03 flux](#)

Uppsala University, Sweden [2017-09 sample](#), [2018-07 climate](#)

urban development

- AURIN data to support research and planning [2020-02 liveability](#)
- Cumberland Plain SuperSite collecting data to track impact of development on critically endangered woodland ecosystem [2020-02 liveability](#)
- Green Urban Futures, project, Adelaide [2022-03 Institute](#)
- Schools Weather and Air Quality monitoring, to facilitate urban planning in Sydney [2021-09 Sydney](#)

urbanised catchments, water quality monitoring [2012-08 water](#)

US Department of Agriculture [2017-09 universal](#)

US Geological Survey [2018-03 map](#)

US National Socio-Environmental Synthesis Center (SESYNC) [2013-12 fun](#)

Users improve mapping tool in data portal [2012-02 mapping](#)

Using Google to deliver spatial science [2012-11 using](#)

Utrecht University, The Netherlands [2016-11 tea](#)

Vadose-zone Monitoring System (VMS)

- for high-tech agricultural monitoring, WA [2023-04 real](#)
- installed at two Queensland sites and a South Australian site [2024-01 extending](#)

Vale Dr Peter Woodgate [2023-01 vale](#)

Value of airborne infrastructure soars sky high [2014-06 value](#)

van Dijk, Albert [2015-04 climate](#), [2017-03 pulse](#), [2018-12 landscape](#), [2019-05 environment](#), [2020-02 Centre](#), [2020-03 environment](#), [2020-08 environment](#), [2021-03 environment](#), [2022-03 environment](#), [2023-03 environment](#), [2023-03 update](#), [2024-03 environment](#)

van Gorsel, Eva [2016-03 flux](#), [2017-01 angry](#)

Van Helden, Maarten [2019-06 training](#)

Van Holsbeeck, Sam [2021-08 University](#)

van Leeuwen, Stephen [2014-07 van Leeuwen](#), [2014-09 collaboration](#), [2015-02 treasures](#), [2017-03 conserving](#), [2019-04 shaping](#)

- appointed Curtin University as Australia's first Indigenous Chair for Biodiversity and Environmental Science [2020-07 update](#)
- supplements WA biological surveys data with Great Western Woodlands SuperSite data to conserve important ecosystems [2014-07 van Leeuwen](#)

VegCover [2016-10 online](#)

vegeindex, 'greenness' index and chromatic indices, TERN phenocam data [2022-07 biomass](#)

vegetated landscapes, tracking transformation, handbook [2012-08 tracking](#)

vegetation biology, advanced ecosystem observatories support [2017-10 facilitating](#)

A vegetation carbon isoscape for Australia [2022-08 vegetation](#)

vegetation changes

biomass measurement using photography [2014-10 measuring](#)
satellite monitoring [2018-12 dust](#)
seasonal
and carbon dynamics [2014-10 Moore](#)
time-lapse image data [2017-03 raspberry](#)
virtual assessment of cover using time-series satellite image archive [2020-04 update](#)
vegetation clumping measurement using remote sensing technology [2015-01 Pisek](#), [2021-06 international](#)
vegetation data
Queensland, available via TERN [2017-06 map](#)
South West Australian Transitional Transect [2015-02 treasures](#), [2017-03 conserving](#)
TERN releases National Biomass Library and National Biomass Map [2016-03 satellite](#)
TERN Vegetation Data Synthesis Challenge workshops to enhance data sharing and accessibility [2023-02 TERN](#)
vegetation decomposition, tea bag monitoring, SuperSites [2016-11 tea](#)
vegetation groups, TERN surveys 26 of Australia's 32 major vegetation groups (MVG) [2018-09 Cape York](#)
vegetation health monitoring, solar-induced fluorescence, Litchfield Savanna SuperSite [2021-11 verifying](#)
vegetation mapping
AusCover part of global network of volunteers, in international Geo-Wiki project [2012-10 AusCover](#)
continent-wide, DWEL laser scanner use [2014-10 echidna](#)
vegetation monitoring, and carbon accounting, drone use [2016-10 drones](#)
vegetation photos, Australia, added to Global Vegetation Project open-access map [2021-04 putting](#)
vegetation productivity and stress, prototype plant fluorescence sensors installed at SuperSites [2020-01 prototype](#)
vegetation regrowth, post-controlled burns, Cleland Conservation Park, Adelaide [2013-11 smile](#)
vegetation samples
documentation, Brookfield Conservation Park, SA [2020-10 botanists](#)
genomic sequencing, Pilbara region, WA [2021-11 next-gen](#)
vegetation structure
airborne LiDAR assessment [2014-06 value](#)
ecosystem productivity and ecosystem carbon uptake and emissions [2021-09 control](#)
measurement, photopoint method [2013-08 TERN](#), [2013-12 scaling](#)
property measurement using terrestrial laser scanners [2017-04 London](#)
remote sensing [2015-01 Pisek](#), [2021-06 international](#)
satellite remote sensing, to detect forest structure [2012-07 detecting](#)
vegetation types
Australia, photos added to Global Vegetation Project's open-access map [2021-04 putting](#)
impact on egg colouration, Australian magpie [2019-05 birds eggs](#)
Velasquez, Eleanor [2022-05 update](#), [2024-02 art](#)
explains how TERN helps scientists and researchers with open-source data on Australia's environment [2022-08 TERN](#)
facilitates TERN's Vegetation Data Synthesis Challenge workshops [2023-02 TERN](#), [2023-02 update](#)
lecturer at International Ecology School, South Korea 2024 [2024-09 fostering](#)
Venn, Susanna [2021-04 Research](#)

Verbeeck, Han [2018-11 forests](#)
Verifying the accuracy of globally important space-based imagery [2021-11 verifying](#)
vertebrate pests, Australian Pest Fauna Monitoring Protocols [2022-07 pest](#)
Vertessy, Rob [2020-08 update](#)
Vicendese, Don [2013-11 students](#)
Victorian Alpine Plot Network [2017-06 decades](#)
Victorian Dry Eucalypt SuperSite [2012-06 ASN](#)
 hosts postgraduate research projects [2013-04 learners](#), [2014-09 nation-wide](#)
 impacts of fuel reduction burns on soil greenhouse gas exchange [2015-06 impacts](#)
 vegetation clumping measurement [2015-01 Pisek](#)
 Wombat Forest, Vic. [2013-04 learners](#), [2015-06 impacts](#), [2017-01 global](#)
Victoria's Department of Environment Land, Water and Planning (DELWP)
 manages OzFlux tower, French Island [2021-10 French](#)
 manages Wombat Forest [2020-08 Wombat](#)
Video shows you how to drive the ÆKOS data portal [2011-11 video](#)
Vietnam, Asia-Pacific Biodiversity Observation Network (AP-BON) meeting, 2017 [2017-10](#)
[observatory](#)
VIIRS workshops on new remote-sensing software [2011-11 VIIRS](#)
Vincent, Tony [2019-06 training](#)
Vincent Family Fairfax Foundation [2017-04 farms](#)
Virtual desktop supercharges big data analyses [2019-01 virtual](#)
virtual forests, biomass estimation, using on-ground remote sensing [2018-11 forests](#)
virtual reality, in art and science [2020-02 ghost](#)
Visible and Infrared Imaging Radiometer Suite (VIIRS) satellite-mounted sensing workshops
[2011-11 VIIRS](#), [2011-12 workshop](#), [2012-03 workshops](#)
Visualising a century of platypus sightings [2017-10 platypus](#)
Visualising floods to strengthen understanding and resilience [2013-09 visualising](#)
VITO, Belgium [2013-09 beer](#)
Vleeshouwer, Jamie [2017-02 Google](#), [2021-08 actual](#)
volunteers
 at Desert Ecology Plot Network [2013-11 plot](#)
 from Conservation Volunteers Australia, assist at Daintree Rainforest SuperSite [2012-08](#)
 [tourists](#)
 from National Australia Bank at Calperum Mallee SuperSite [2015-09 NAB](#)
 making better maps, through international Geo-Wiki project [2012-10 AusCover](#)
 monitoring long-term survey plots, mountain ash forests [2013-07 tall](#)
Vote, Camilla [2020-03 investigating](#)
Vulkathunha–Gammon Ranges National Park [2013-09 surveys](#)
Vulnerability Indices for Mortgage, Petroleum and Inflation Risks and Expenditure
(VAMPIRE) [2020-02 liveability](#)

WA Scientist of the Year has TERN link [2012-02 Hobbs](#)
Wahome, Anastasia [2019-12 systems](#)
Wake-up call for science to embrace everyone's knowledge [2014-02 wake-up](#)
Walker, Craig [2011-09 government](#), [2011-10 data](#), [2011-11 video](#), [2011-12 state](#), [2012-02](#)
[mapping](#), [2012-04 focus](#), [2012-08 eco-informatics](#), [2012-08 NCRIS](#), [2012-10 data](#), [2012-10](#)
[licensing](#), [2013-01 beta](#), [2013-06 soils](#), [2013-07 eco-informatics](#), [2013-08 like](#), [2016-03](#)
[open data](#), [2016-06 NCRIS](#)
Walker, Jim [2023-11 Integrated](#)
 ARC project promoting bush foods for long-lasting Indigenous businesses [2021-11 TERN](#)

Indigenous advocacy [2021-11 TERN](#)
joins TERN Science Advisory Committee [2021-10 update](#), [2021-11 TERN](#)
on the value of working with Indigenous communities on scientific and environmental
research projects [2021-11 TERN](#)

Walker, Jonni [2017-10 platypus](#)

Wallaby Creek OzFlux tower site, Kinglake National Park, Vic., flux tower replaced
following 2009 bushfire [2013-07 tall](#)

Wallace, Helen [2020-03 environmental](#)

Wallace, Jim [2011-12 SuperSite](#)

Walsh, Neville [2018-11 weed](#)

Wambiana Grazing Trial, Charters Towers, Qld [2021-03 paddock](#), [2021-08 TERN](#)

Wandoo transect, initial monitoring, WA [2022-12 new](#)

Wang, Han [2017-09 universal](#)

Ward, Ben [2014-10 measuring](#)

Wardlaw, Tim [2012-08 research](#), [2013-02 TERN](#), [2013-04 learners](#), [2013-06 appreciating](#),
[2014-11 forestry](#), [2015-01 Pisek](#), [2017-05 sound](#), [2019-03 learning](#), [2019-12 essential](#),
[2021-04 Warra](#), [2024-07 giants](#)

Wardle, Glenda [2012-09 boom](#), [2012-12 engaging](#), [2013-11 plot](#), [2013-12 call](#), [2014-02](#)
[landmark](#), [2014-07 foundations](#), [2015-04 biodiversity](#), [2016-03 desert](#), [2016-03 open data](#),
[2016-09 NSW](#), [2019-04 shaping](#), [2019-09 integrating](#), [2020-09 changing](#), [2023-01 Oceania](#)
as Chair, Ecosystem Science Council [2015-12 Council](#), [2018-12 long-term](#)

Warlpiri Women Rangers, collect data for Tanami Regional Biodiversity Monitoring project
[2018-07 Tanami](#)

Warra Tall Eucalypt SuperSite, Tas. [2021-04 Warra](#)
advanced airborne laser (LiDAR) scanning [2014-06 value](#)
biodiversity and history of harvesting at Warra [2021-04 Warra](#)
bird species [2017-05 sound](#)
bushfires [2016-03 Furlaud](#), [2019-03 learning](#), [2020-01 safeguarding](#)
collaboration with Tahune Airwalk to incorporate science into Bluestone Shelter [2019-12](#)
[essential](#)

CosmOz sensor installation [2020-02 cosmic](#)
crown scorching and understorey destruction following fire [2019-03 learning](#)
Eucalyptus obliqua canopy and understorey mix of wet sclerophyll and rainforest species
[2021-04 Warra](#)
fire impact on the site and monitoring infrastructure January 2019 [2021-04 Warra](#)
Giants under Threat report – eucalypts response to warmer temperatures [2024-07 giants](#)
how harvesting methods meet social, ecological and silvicultural objectives [2014-11](#)
[forestry](#)

landscape approach to biodiversity management in temperate forests [2019-08 Yee](#)
lasers, drones and planes to scan, measure and document the state of the forest [2015-02](#)
[lasers](#)

new forestry harvesting practices that help protect native fauna [2012-12 MSPN](#)
open-access data [2013-06 appreciating](#)
plant functional traits [2018-09 data](#)
post-fire data on forest fuel loads [2016-03 Furlaud](#)
post-fire research to assess fire impacts and ecosystem recovery [2019-12 essential](#)
research and activities [2011-12 SuperSite](#)
research improves forestry policy [2012-08 research](#)
research project with Forest Education Foundation [2013-04 learners](#)
species return to eucalypt forests following harvesting [2013-02 TERN](#)

tea bag monitoring [2016-11 tea](#)
vegetation clumping measurement [2015-01 Pisek](#)
vegetation and soil monitoring [2019-12 essential](#)
wood block decomposition 12-month mass loss assessment [2019-04 TERN data](#)
A watchful eye on Australia's fires [2014-01 watchful](#)
water availability and plant growth, improvement in 2022 [2023-03 environment](#)
water balance and growth model validation, CosmOz network data use [2023-12 TERN](#)
water balance modelling and understanding of ecosystem water requirements, using accurate
AET estimates for the entire Australian continent [2021-08 actual](#), [2021-08 update](#)
water budgets, irrigated and non-irrigated lucerne, NZ [2020-11 Ashley](#)
water conservation and drought [2021-11 ANU](#)
water data, Perth, student-built interactive data visualisation website [2021-08 students](#)
water dataset [2021-08 quantify](#)
water flow and distribution, effect of roads and linear infrastructure [2019-02 Raiter](#)
water in our ecosystems [webinar] [2021-12 looking](#)
water quality monitoring, urbanised catchments [2012-08 water](#)
water regulation, TERN data use [2022-05 TERN](#)
water resources, post-fire availability and management, tall forest ecosystems [2023-12
bushfire](#)
water stress resistance, tropical savanna eucalypts [2017-11 Peters](#)
water usage, NRAR compliance monitoring using TERN's AET data [2022-05 TERN](#)
water-use efficiency (WUE) of single plants and entire ecosystems [2015-12 Maes](#)
Waters, Dave [2013-09 integrating](#)
watertables
declining, Perth, OzFlux facility use [2013-09 flux](#), [2020-05 Gingin](#)
falling, and groundwater recharge, Gingin, WA [2017-08 Earth](#)
Watson, David [2020-01 Institute](#)
Wave of extinctions in the north shows history repeating itself [2012-09 wave](#)
weather, affects on human behaviour [2020-10 hot](#)
weather data
honey harvest prediction, WA [2020-07 honey](#)
time-series, collected at Sydney schools [2021-09 Sydney](#)
Webb, Rebecca [2019-09 Centre](#)
weed-biodiversity interactions [2017-12 weeds](#)
weed loads, reduction, and biodiversity conservation [2020-04 Deakin](#)
weed management
grassland ecosystems [2017-12 weeds](#)
MER Fire and Weeds Pilot Network [2021-10 reviewing](#)
weed re-discovery, Tasmanian Midlands [2020-04 grass](#)
Weigand, Nico [2019-09 camera](#)
Weighing the cost: the impact of heatwaves on birds [2020-01 heatwaves](#)
Weir, Sara [2019-06 training](#)
Wensley, Penny, launches TERN Australia Soil and Herbarium Collection facility in
Adelaide [2022-12 treasure](#), [2022-12 update](#)
West Arnhem Land Fire Abatement (WALFA) project [2012-07 standardising](#), [2015-04
ecologically](#), [2017-07 Kakadu](#), [2017-08 Kakadu](#), [2019-10 RIEL](#)
Western Australia
AusPlots [2017-03 ecosystem](#)
funds SIF sensor network [2020-01 prototype](#)
global biodiversity hotspot under investigation [2018-10 drought](#)

new transects established by TERN – Banksia woodland, Wandoo and Mulga-line [2022-12 new](#)
sandplain ecosystems, species turnover in botanical composition [2017-03 conserving](#)
Western Australian Herbarium [2014-09 collaboration](#)
Western Australian islands, Proteaceae decline [2016-12 Miech](#)
Western Australian Rangeland Monitoring System (WARMS) [2014-02 experience](#)
Western Australia’s Department of Biodiversity, Conservation and Attractions [2020-10 monitoring](#), [2021-01 Butler](#)
Western Australia’s Department for Environment and Conservation [2011-11 woodlands](#), [2011-12 data](#), [2011-12 SuperSite](#), [2014-04 fostering](#)
Western Australia’s Department of Food and Agriculture [2011-12 data](#)
Western Australia’s Department of Parks and Wildlife
co-establishes Great Western Woodlands SuperSite study centre [2013-10 western](#)
co-establishes South West Australian Transitional Transect (SWATT) [2013-07 agriculture](#)
fire management in the Great Western Woodlands report [2014-01 Ngadju](#)
Indigenous rangers knowledge exchange and skills training [2014-09 collaboration](#)
Pilbara Corridors project collaboration [2015-06 Pilbara](#)
researchers [2014-07 van Leeuwen](#), [2015-02 treasures](#), [2017-03 conserving](#)
Western Australia’s Department of Primary Industries and Regional Development, Barest
Earth products use [2021-02 Earth](#)
Western Australia’s Department of Water [2013-09 flux](#)
Western Australia’s Department of Water and Environmental Regulation [2017-08 Earth](#)
Western Downs, Qld, ecosystem surveillance site [2019-07 observatory](#)
Western field centre puts out welcome mat [2013-10 western](#)
Western Kangaroo Island, as plant biodiversity hotspot [2016-09 biodiversity](#)
Western Sydney University [2019-04 sweat](#), [2019-04 TERN data](#)
Hawkesbury Institute for the Environment [2019-07 share](#), [2019-10 heat](#), [2021-05 living](#)
researchers [2012-12 engaging](#), [2012-12 special](#), [2014-01 hot](#), [2017-01 global](#), [2017-11 Peters](#), [2020-09 changing](#), [2021-04 predicting](#)
western Sydney urban development, and Cumberland Plain critically endangered woodland
ecosystem [2020-02 liveability](#)
Westoby, Mark [2013-02 challenge](#), [2014-07 foundations](#), [2017-05 data](#)
honoured by *Journal of Ecology* [2016-06 Journal](#)
Wet Tropics, cyclone resilience [2014-01 science](#), [2015-04 capabilities](#)
Wet Tropics catchment, management [2014-03 integrated](#)
wetlands
improvement in 2022 [2023-03 environment](#)
plant species’ occurrences [2013-07 tall](#)
role in lessening the impacts of extreme weather on natural and modified landscapes [2021-01 forests](#)
What is an Eddy Covariance Flux Tower? [2023-04 what](#)
What is carbon neutral agriculture? [2023-04 neutral](#)
When weeds are good [2017-12 weeds](#)
Where do you sit on the data-publishing continuum? [2013-03 where](#)
Whinam, Jennie [2011-12 SuperSite](#)
White, Andrew [2011-10 surveys](#)
White, Matt [2013-03 greater](#)
white-bellied sea eagle (*Haliaeetus leucogaster*) [2017-11 raptors](#)
Whitehead, David [2019-11 Manaaki](#)
Whiteman, Grant [2012-08 rangelands](#), [2014-01 TERN](#)

Whitemore, Scott [2017-05 sound](#)

Whitley, Rys [2014-03 modelling](#), [2014-08 SPEDDEXES](#)

Wild Orchid Watch app, for national citizen science project [2022-03 citizen](#)

Wild talk at ecology workshop [2011-12 wild](#)

Wildlife camera trap, ecoacoustic and drone data collection – how is Australia addressing this challenge [2024-07 wildlife](#)

wildlife corridors on farms, establishment on [2017-04 farms](#)

wildlife monitoring, camera traps use [2022-08 observing](#)

Wildlife Observatory of Australia (WildObs), standardisation of camera trap sourced data, and collation, curating and sharing the database for research via TERN [2022-08 observing](#)

Wilford, John [2021-02 Earth](#)

Wilkes, Phil [2013-07 NATT](#)

Wilkinson, Ross [2013-04 developing](#), [2021-08 update](#)

Will the carbon economy be good for biodiversity? [2012-07 carbon](#)

Williams, Christine [2014-05 collaborating](#)

Williams, Dick [2012-08 sustaining](#), [2013-07 tall](#), [2017-06 decades](#)

Williams, Stephen (Steve) [2011-12 SuperSite](#)

Wilson, Matt [2023-04 update](#)

Wilson, Kate [2017-05 data](#)

Wilson, Kerrie [2011-10 ACEAS](#), [2011-12 wild](#)

Wilson, Peter [2013-02 challenge](#)

Wimmer, Jason [2012-10 eclipsed](#)

Winds of change: next-gen pollen mapping and forecasting [2019-10 pollen](#)

Windy weather - dusty days ahead? [2014-01 windy](#)

wine grape production, TREND data for land-use planning, SA [2012-08 TREND](#)

Wintle, Brendan [2016-09 Booderee](#)

wireless light radiation sensor networks, installed at WA SuperSites [2020-10 monitoring](#)

Witchelina Nature Reserve, SA, third ecological survey [2018-10 surveys](#)

Wolf, Sebastian [2017-01 angry](#)

wolf spiders, interactions with less hairy-footed dunnart, camera trap studies [2022-12 night](#)

Wombat Stringybark Eucalypt SuperSite, Vic.
celebrates 10 years of continuous data collection [2020-08 Wombat](#)
fire effects study area [2020-08 Wombat](#)
flux tower reopens 3 years after destruction in a wind storm [2024-07 Wombat](#)

women in STEM, Samantha Munroe named among Australia's official Superstars of STEM [2020-12 STEM](#)

Women's Ranger Team (Birriliburu) [2014-09 collaboration](#)

Wood Block Decomposition 12 Month Loss Assessment, TERN SuperSite datasets [2019-04 TERN data](#)

Wood, Danielle [2019-12 systems](#)

Wood, Sam [2013-01 seeing](#), [2013-06 appreciating](#), [2013-07 agriculture](#), [2011-10 surveys](#)

Woodgate, Peter, vale [2023-01 vale](#)

Woodgate, William [2019-08 Copernicus](#), [2019-12 Snowy](#)

woodlands
as refuges for native animals on arid grazing lands [2016-03 desert](#)
change from carbon sink to source, during heat waves [2017-01 angry](#)
global analysis of distribution across dryland ecosystems, using TERN data [2017-05 forests](#)
threatened southern Australian eucalypt woodlands, recovery plan [2021-09 ecologists](#)
survey protocols [2015-06 condition](#)

woody vegetation, height and cover, maps and library of [2016-03 satellite](#)
Working with the community to collect data on raptors [2017-11 raptors](#)
Working out how much carbon can be stored in the landscape [2012-07 working](#)
Working together to improve land-management outcomes [2012-08 working](#)
Workshop on NASA's new earth monitoring satellite and sensor system [2011-12 workshop](#)
Workshops bring remote sensing down to Earth [2012-03 workshops](#)
World Soil Day: celebrating a rare and precious thing [2011-11 world](#)
World's first global vegetation database [2018-12 vegetation](#)
The world's most valuable micro-meteorological data [2019-01 valuable](#)
Wreck Bay Aboriginal Community Council [2013-11 plot](#), [2016-09 Booderee](#)
Wright, Cory [2019-09 rainforest](#)
Wright, Ian [2012-03 break](#)
Wu, Sabrina [2014-10 echidna](#)
Wundke, Dominic [2015-06 condition](#)
Wyber, Rhys [2016-10 drones](#)

Xerochrysum (Asteraceae: Gnaphalieae)

evolutionary relationships of *Xerochrysum*, *Coronidium* and *Helichrysum leucopsidium*
[2023-01 fresh](#)

twelve new species and a new genus of paper daisies [2023-01 fresh](#)

Xiubo Yu [2015-02 TERN](#)

Yale University [2012-06 new](#)

Yang, Xihua [2020-04 erosion](#)

Yates, Marcus [2012-05 engaging](#)

Yebra, Marta [2020-02 Centre](#), [2021-11 ANU](#)

Yee, Marie, landscape approach to biodiversity management in Tasmania's temperate native forests [2019-08 Yee](#)

Yield Prophet® decision support tool [2013-04 soil](#), [2019-09 big data](#)

Young, Andrew [2011-09 despotic](#)

Youngentob, Kara [2014-05 gourmet](#)

Zanne, Amy [2019-04 TERN data](#)

Zdenek, Christina [2017-06 ecoEd](#)

zebra finches, prenatal acoustic communication [2020-04 Deakin](#)

Zhou, Yincai [2016-10 drones](#)

Zimmer, Heidi [2022-03 citizen](#)

zoonotic diseases

and environmental change [2020-03 update](#)

predicting animal to human virus transmission risk periods [2020-03 environmental](#)

Zund, Peter [2021-06 improved](#)