

Global Context: future economic opportunities in fire management

2021 North Australia Savanna Fire Forum

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ICIN

Indigenous
Carbon
Industry
Network



International Carbon Pulse

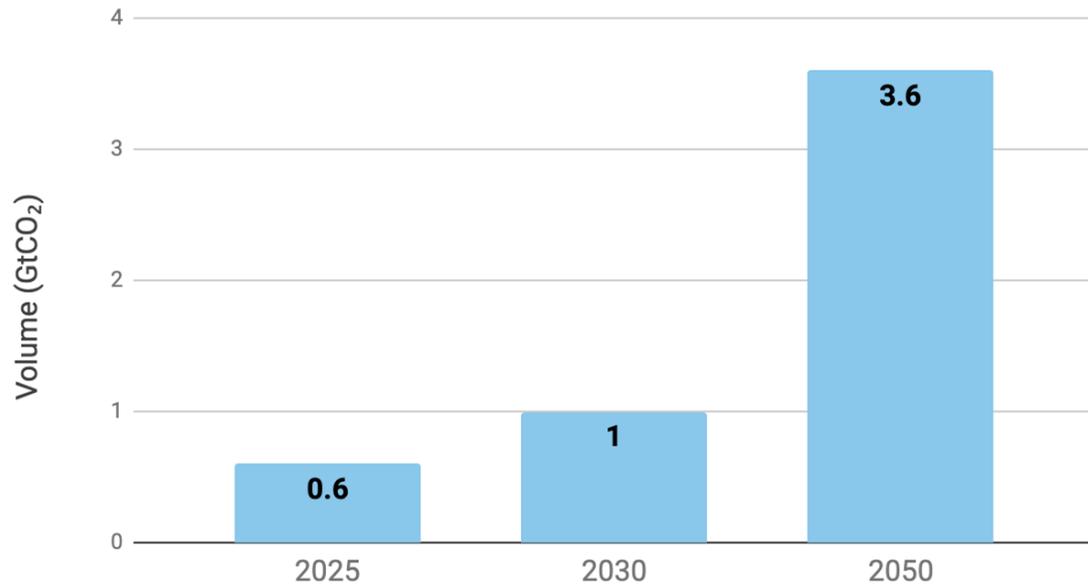


Global Trends in the Carbon Market

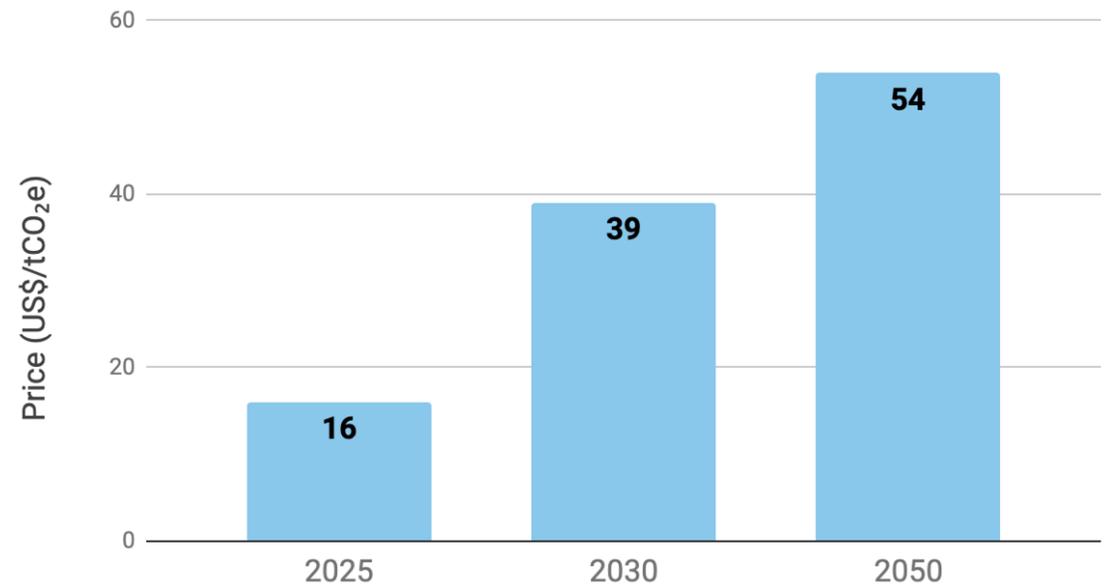
Anticipated market evolution

- The volume and price of carbon offsets transacted is **expected to soar** in the coming decades, to **3.6 GtCO₂** and **US\$ 54/tCO₂e** by 2050, according to the results of a survey conducted by the Taskforce on Scaling Voluntary Carbon Markets.
- Despite this expected increase, market sizing models suggest the voluntary carbon market could grow to **7 GtCO₂e per annum**.

Anticipated carbon offset market volume



Anticipated carbon offset price



(Source: Taskforce on Scaling Voluntary Carbon Markets (2020), Kick Off / Workshop 1)

December updates

To mention just a few names:

- Gucci
- EY
- Digitec
- Cartier
- Swiss RE
- Oriflame
- Candriam
- K+N
- Deutsche Bank
- Credit Suisse
- Wolt
- Berge Bulk
- JetBlue
- PayPal
- Diageo
- Supercell
- German Environment Agency - UBA
- ICA
- Bonnier Books



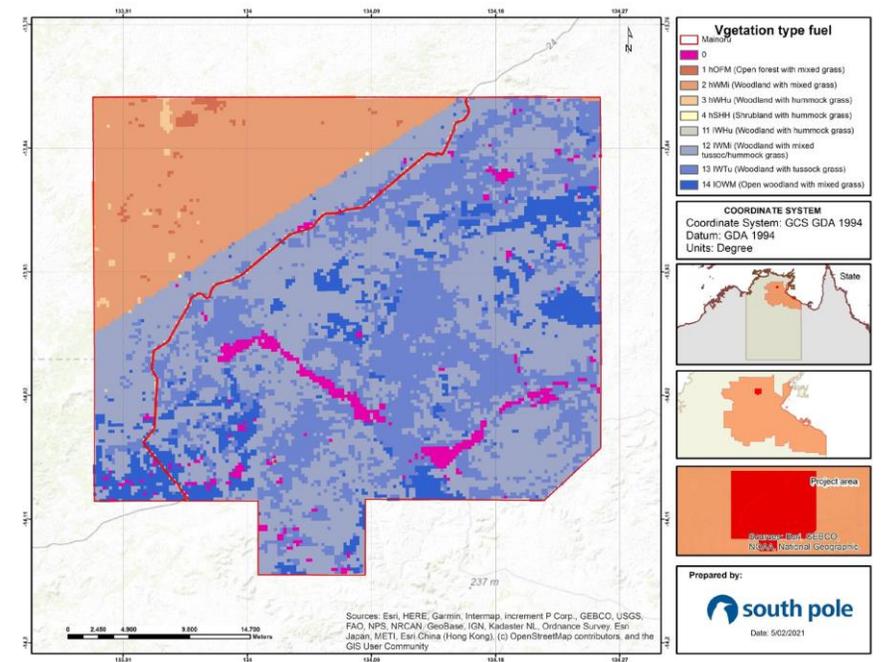
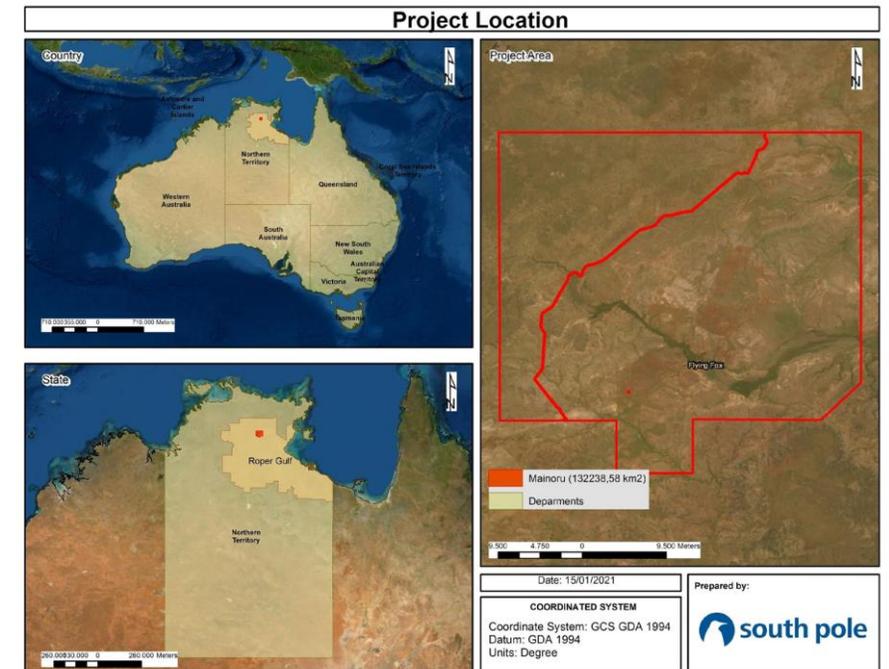
AND MANY MORE!

Project Spotlight



Mainoru Savanna Burning Project:

- Location: Mainoru Station, Katherine, Northern Territory
- The project straddles the 1000mm rainfall isohyet with portions in both the high and low rainfall areas.
- Area (Ha): 133 000 ha
- Methodology: *Carbon Credits (Carbon Farming Initiative- Emissions Abatement through Savanna Fire Management) Methodology Determination 2015.*
- Project baseline
 - HRZ: 2001 – 2010
 - LRZ: 2000 – 2014
- Project started 1 January 2011
- Net annual abatement from 1/1/2011 to 31/12/2015: 12,457 tCO₂-e (2,500 tCO₂-5/year)
- Net annual abatement for calendar year 2016: 11,468 tCO₂-e
- Net annual abatement for calendar year 2017: **7,850.75 tCO₂-e**
- Net annual abatement for calendar year 2018: **2,332 tCO₂-e**
- Net annual abatement for calendar year 2019: **8,931 tCO₂-e**



Mount Mulgrave Savanna Burning Project:

- Location: Mt Mulgrave Station, Cape York Peninsula, north Queensland
- The project straddles the 1000mm rainfall isohyet with portions in both the high and low rainfall areas.
- Area (Ha): 280,728 ha
- Methodology: *Carbon Credits (Carbon Farming Initiative- Emissions Abatement through Savanna Fire Management) Methodology Determination 2015.*
- Project baseline
 - HRZ: 20000- 2014
 - LRZ: 2005 - 2014
- Project started 1 January 2015
- Net annual abatement for calendar year 2015: 24943 tCO₂-e
- Net annual abatement for calendar year 2016: **30,223 tCO₂-e**
- Net annual abatement for calendar year 2017: 18,099 tCO₂-e
- Net annual abatement for calendar year 2018: **7,230 tCO₂-e**
- Net annual abatement for calendar year 2019: **10,651 tCO₂-e**

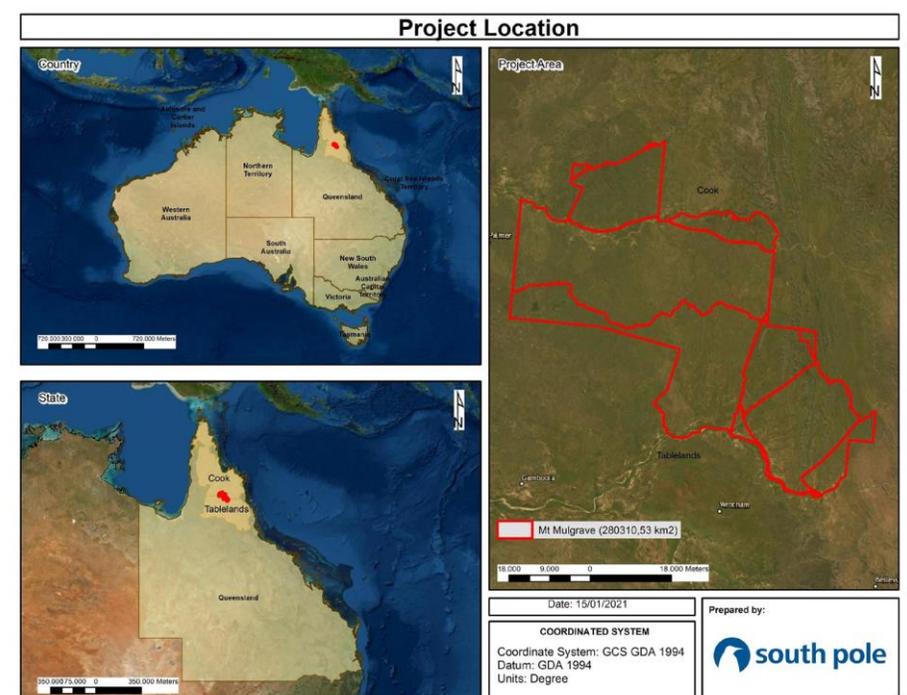


Photo of Late Dry Season fires In December 2019 on Mt Mulgrave

Desert Support Services (BHP Billiton Foundation)

Bushfire modeling in Australia for the 10 Deserts project



Context

The 10 Desert Project focused on the development of a methodology under the Australian government's Emission Reduction Fund (ERF) using fire management for the generation of carbon credits in areas of Australia across the 10 Deserts regions with less than 600 mm/year of precipitation.



Objective

The objective was to build an GIS model for tracking and predicting fire, to aid in development of a methodology for fire management for deserts areas in Australia.

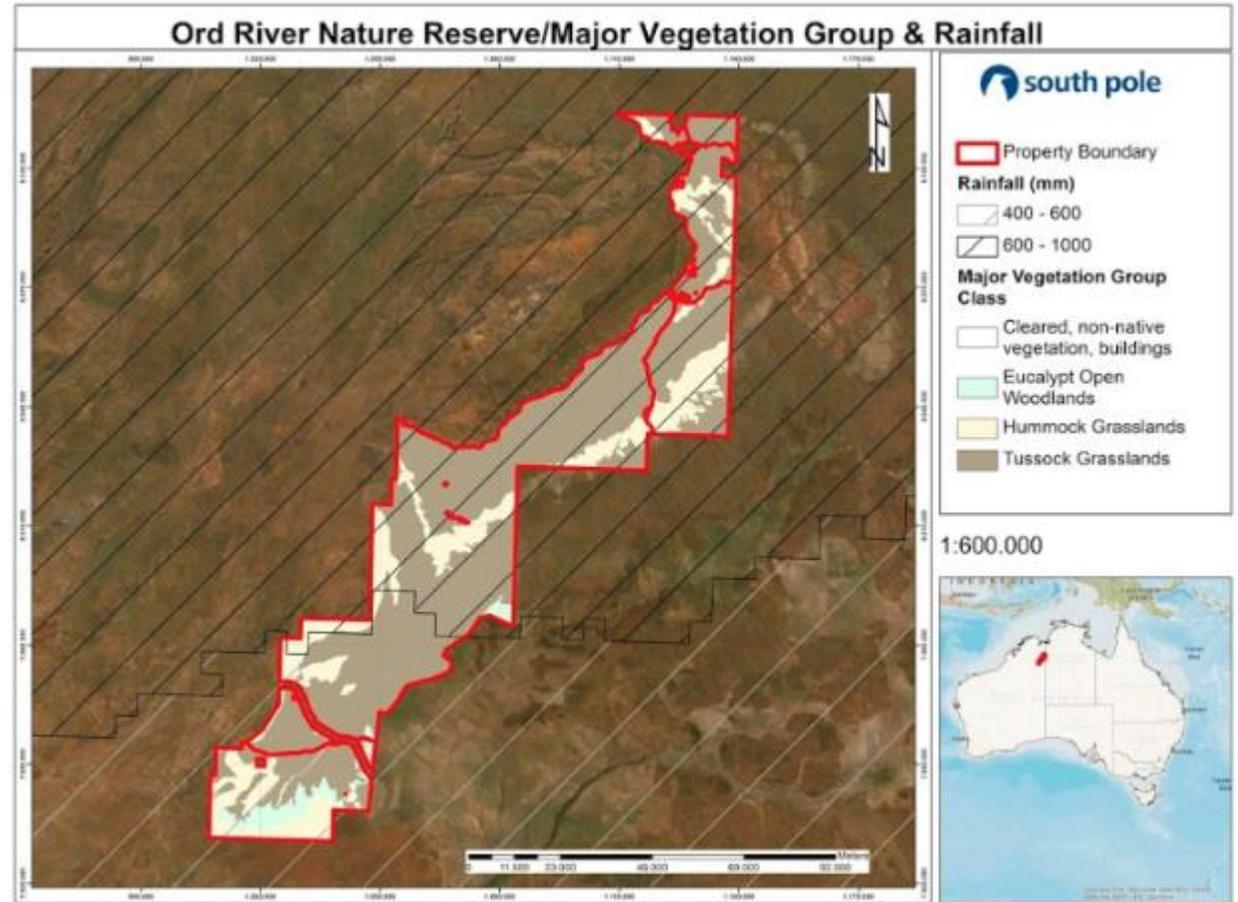
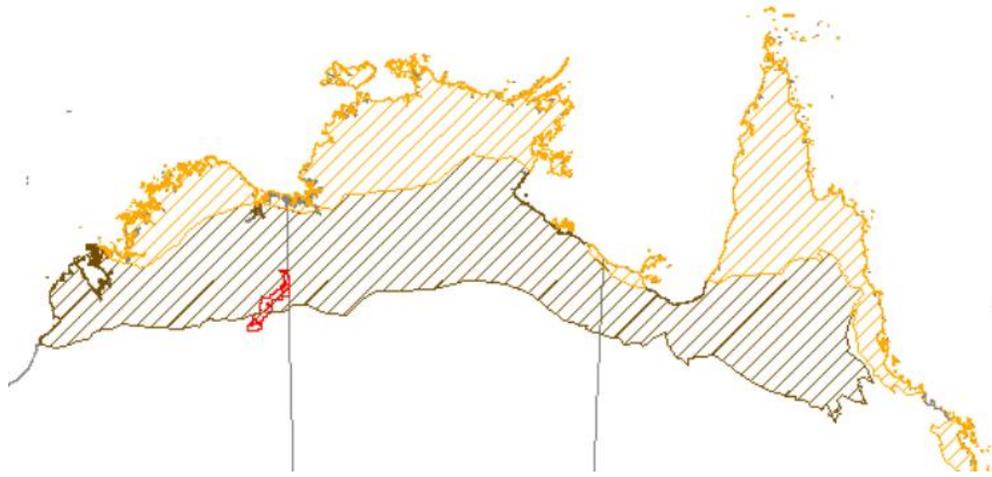


Project activities

1) identify the availability of data and information in terms of the specific characteristics unique to the 10 deserts region in Middle Australia; 2) determined the baseline scenario by using multi-temporal climate data, historical fire occurrences, vegetation classes and biophysical aspects of the land; 3) analysed the variables, by using multitemporal- and trends analysis, forecasting of burning areas, estimation of fire return period.

Ord River Conservation Reserve, WA

Carbon for Conservation



Why work with South Pole?



Pictured: The Siam Solar Energy project in central Thailand helps reduce dependency on fossil fuels, improves energy access in rural regions and boosts local economies.



Who we are

South Pole helps clients to reduce climate change impacts, mitigating risk and creating value on their sustainability journeys.

Innovative solutions

An award-winning, 14-year history of providing sustainability solutions

Diverse expertise

Our team of 350+ sustainability advisors, scientists and engineers are leading experts in their fields

Global presence

19 offices and representations around the world

Our work



140,000

GWh of renewable energy generated

That's equivalent to
21 million
cars taken off the roads



+2 trillion

in investments screened for climate risk (EUR)



+700

carbon emission reduction projects developed

Over
100,000
jobs created



+170 million

metric tonnes of carbon dioxide reduced

€15 billion

invested to advance renewable energy

2 million

hectares of forests protected

Pictured: South Pole's Kariba Forest Protection Project in Zimbabwe

South Pole's project development process

From project development to verifying impacts, to issuing and retiring credits

Project development



Carbon credit development



Your Team

Here to help you along the climate leadership journey



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