## Mapping Tasmania's past

#### **Dr Richard Tuffin** University of New England

Undertaken with funding from:

Australian Research Council Linkage Project

2021-24



HOBART.

### Mapping Tasmania's past

### Revealing Maria Island's hidden convict past

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Dr Richard Tuffin

University of New England

Prof Martin Gibbs

University of New England

Mike Nash

Tasmanian Parks and Wildlife Service (former)

A talk for the esteemed members of THRA, Jul 2024

Undertaken with funding from:



Australian Government

Department of Climate Change, Energy, the Environment and Water

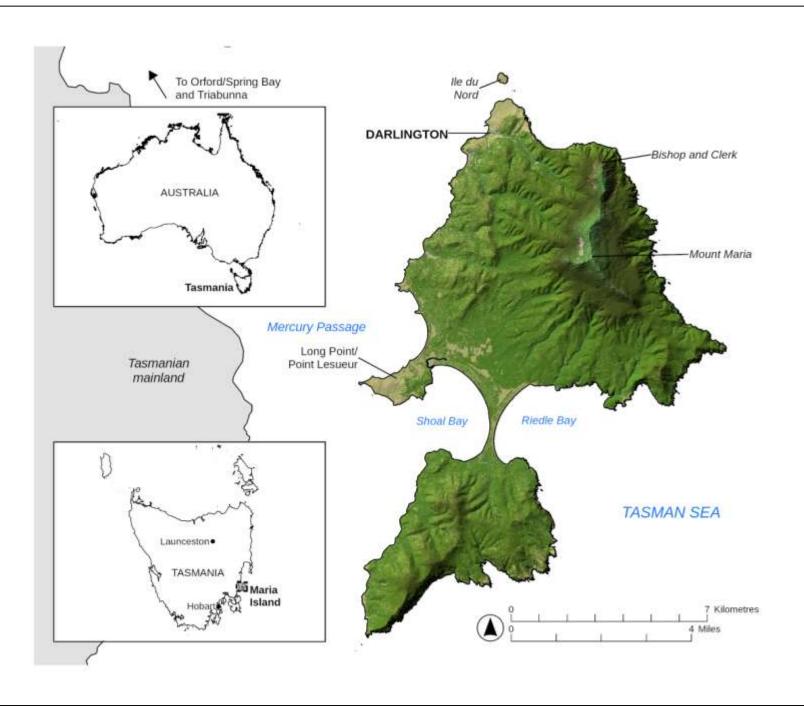
Australian Heritage Grant, 2022-23



History Fellowship, 2024

Australian Research Council, 2024-26

Maria Island: History and Landscapes 1825–1930





(Tas Parks)

#### ...it's disgustingly nice



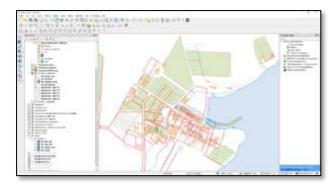
(Tas Parks)

## A well established research trajectory: (due to a lack of imagination)

- Loooong careers working at convict sites, talking about them or teaching
- Landscapes of Production and Punishment, ARC DP 2017-20
  - Port Arthur, Van Diemen's Land
- Convict landscapes: Locating Australia's convicts, 1788-1868
  - Australia, Probation in VDL, Norfolk Island, Port Macquarie
- Putting death in its place, ARC LP 2022-24
  - relationships between where people live, mortality, life expectancy and health
- State Library Fellowship 2024
  - The impact of Probation on the Tasmanian landscape







# The Australian Heritage Grant

- Awarded 2022. Much rejoicing
- Joint project with Tasmanian Parks and Wildlife, Mike Nash
- ORIGINAL AIMS:
  - Map the labour landscape of the convict phases
  - Locate and record the First Penal Settlement (1825-32)
  - Create interpretation aids
- WHAT ACTUALLY HAPPENED:
  - Surveyed and mapped ALL phases
  - Did geophysics and found...not much
  - Extensive archival research
  - Published a web map
  - Did some talks (like this one, pay attention)
  - Wrote a book
  - Surveyed Long Point (maybe)
- Project wrapping up 2024-ish

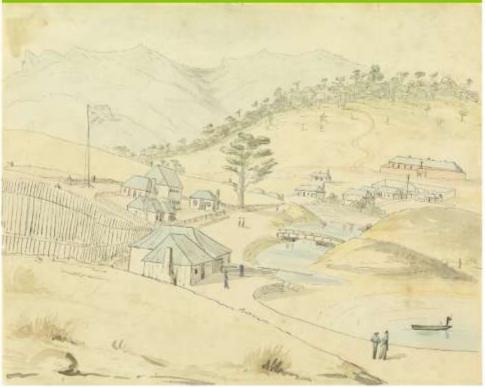


#### Project Plan:

## Recovering Darlington Probation Station's hidden convict landscapes

Professor Martin Gibbs Dr Richard Tuffin

October 2021



View of Darlington, Maria Island, Robert Neill, ca.1831. Tasmunian Archives

Stuff you already know...

- Aboriginal occupation and use
- Penal phase: 1825 1832
- Probation phase: 1842 1852
- A.G.D Bernacchi goes wild: 1884 1896
- Concreting paradise: 1920 1930
- The time of the tourist: forever

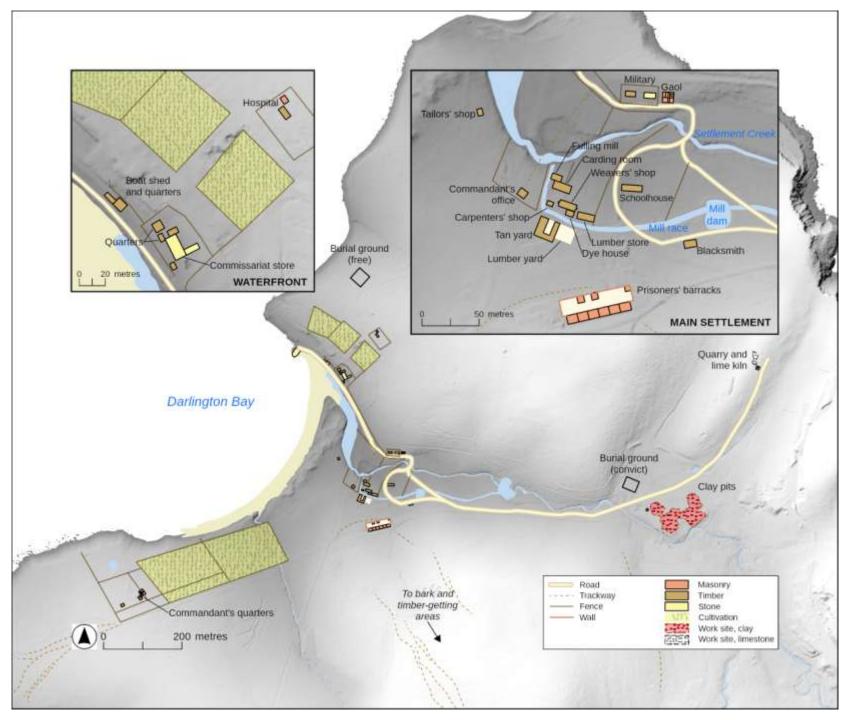
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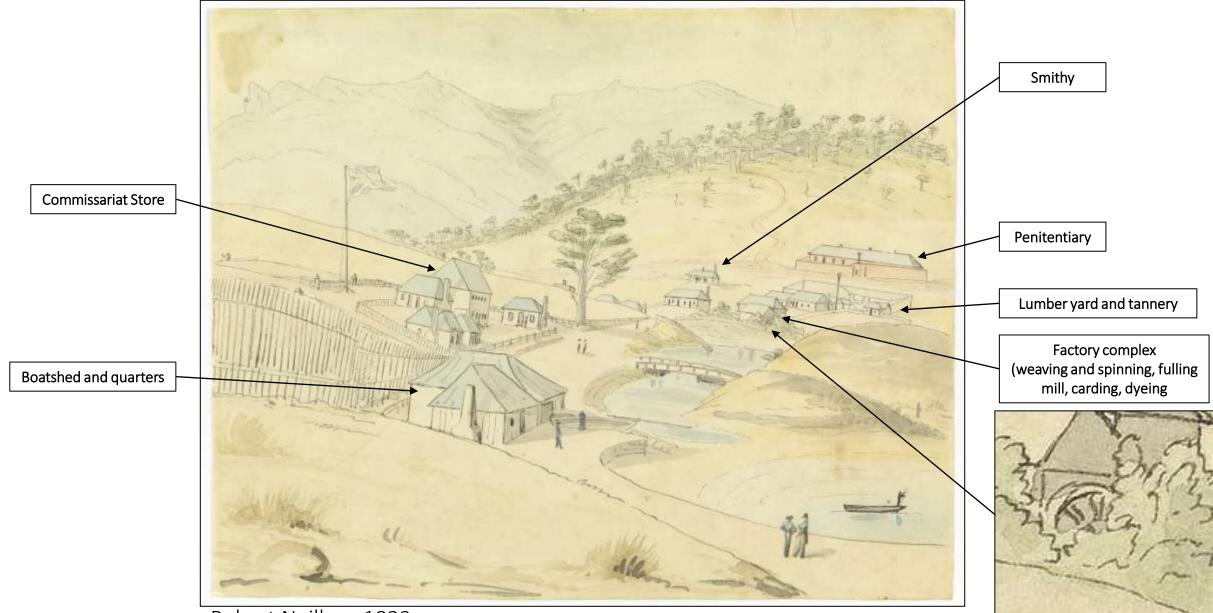
Stuff you already know...

Penal phase: 1825 – 1832

- A penal station for those too good for Macquarie Harbour, but too bad for a chain gang
- Timber-getting initially
- Rapid diversification into complex industry: weaving, tanning
- Peaked at over 150 men
- Late exploitation of lime
- Replaced by Port Arthur



Stuff you already know...

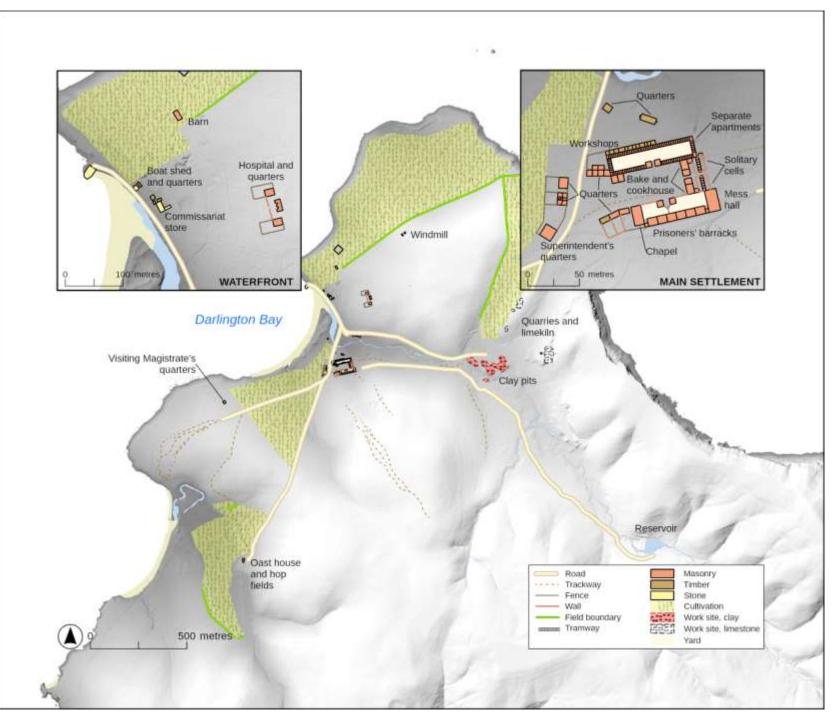


Robert Neill, ca.1832 (ТАНО)

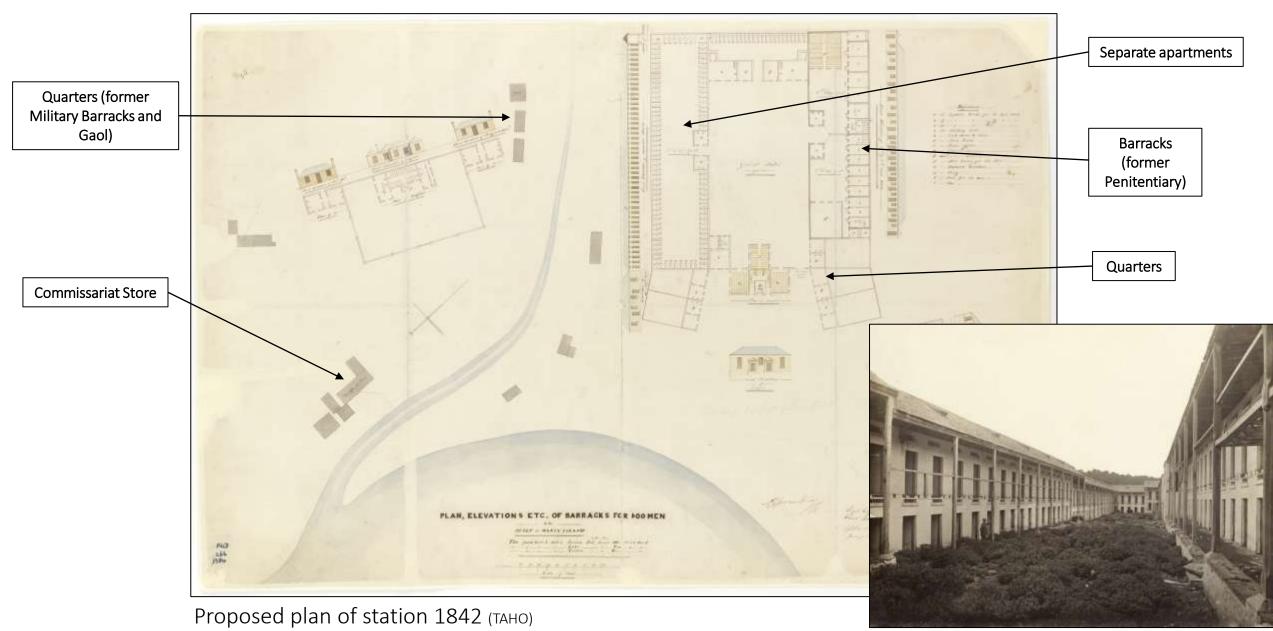
Stuff you already know...

Probation phase: 1842 – 1852

- Got off to a slow start
- Renamed Darlington
- By late 1840s a model station
- Peaked at over 600 men
- Limited industrial focus, primarily agricultural station
- Hops as cash crop
- Some exploitation of lime
- Closed as part of colony-wide consolidation

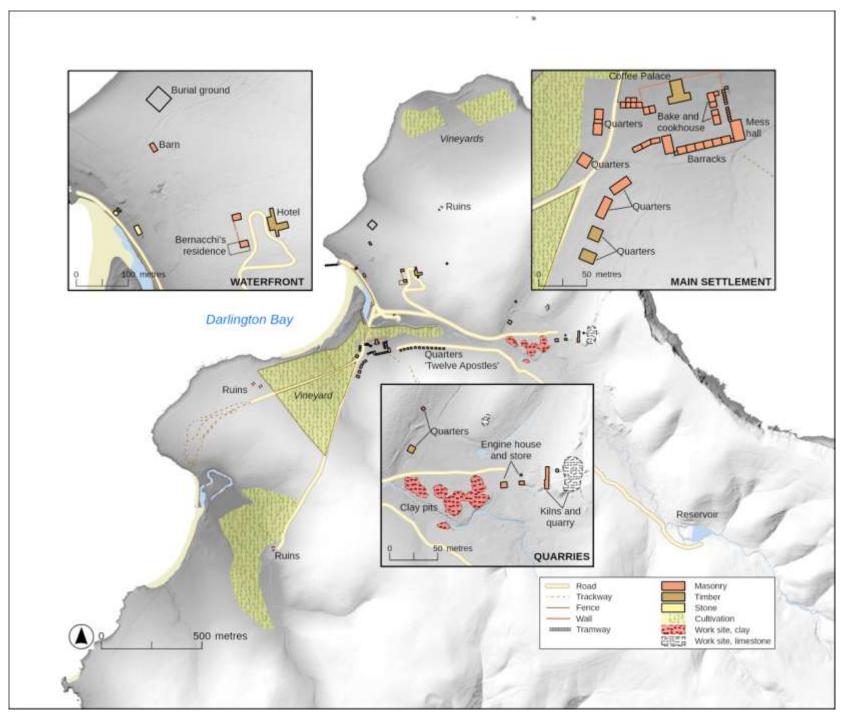


Stuff you already know...

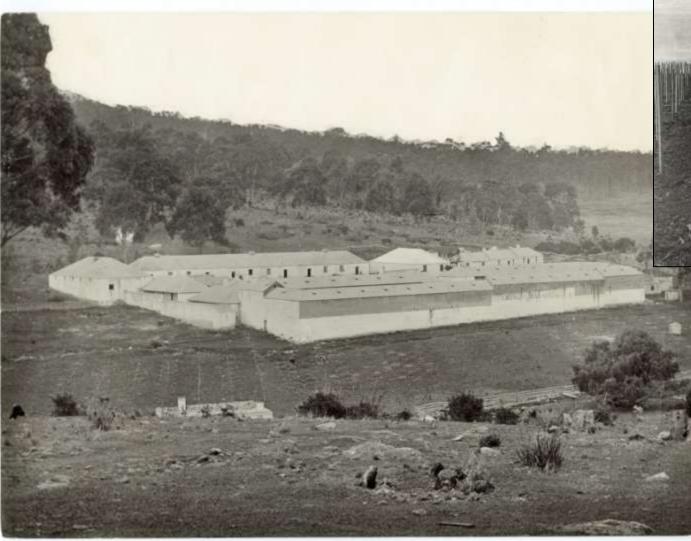


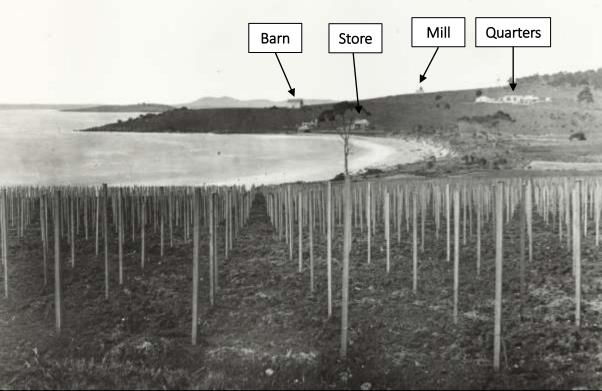
Stuff you already know...

- A.G.D Bernacchi goes wild: 1884 1896
  - Island favourably rented
  - Bernacchi a great showman and dreamer...but also a doer
  - Workers' accommodation and hotel built
  - Up to 260 on the island
  - 50,000 vines planted...a failure
  - Mulberry trees planted for silkworm cultivation...a failure
  - Limestone quarried, kilns built...a failure
  - 1892 marked end of venture...but Bernacchi kept trying



Stuff you already know...





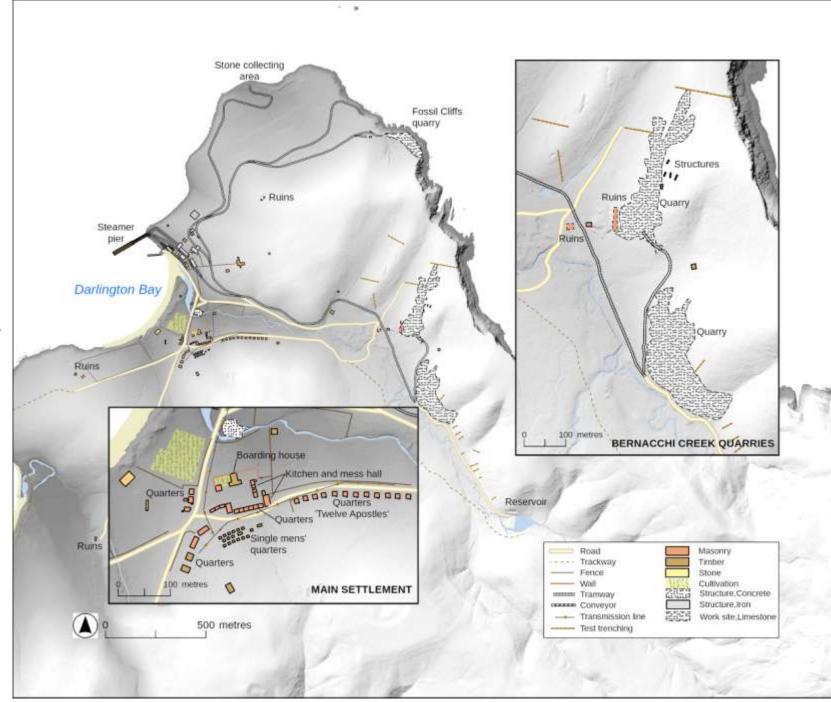
Bernacchi's vineyard, ca.1880s (тано)

Darlington, ca.1880s (тано)

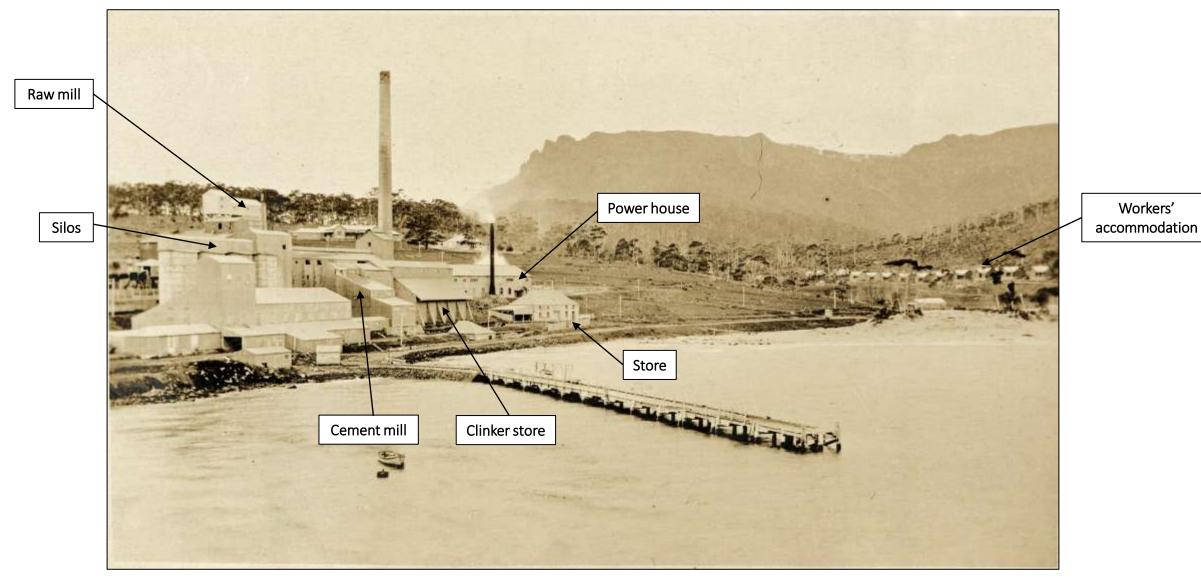
Stuff you already know...

Concreting paradise: 1920 - 1930

- A direct result of Bernacchi's drive
- Many companies floated...and failed between 1892 – 1920
- Worked began 1920. Accommodation, sawmill, tramways
- 170 workers
- From 1922 work on site of cement factory. Completed 1924
- Controversial exploitation of Fossil Cliffs
- Operation of works 1924 1929, 100,000 tons cement produced
- Unserviceable debt, Depression



Stuff you already know...



Workers'

Darlington, ca.1920s, taken from the steamer pier (TAHO)

Stuff you already know...

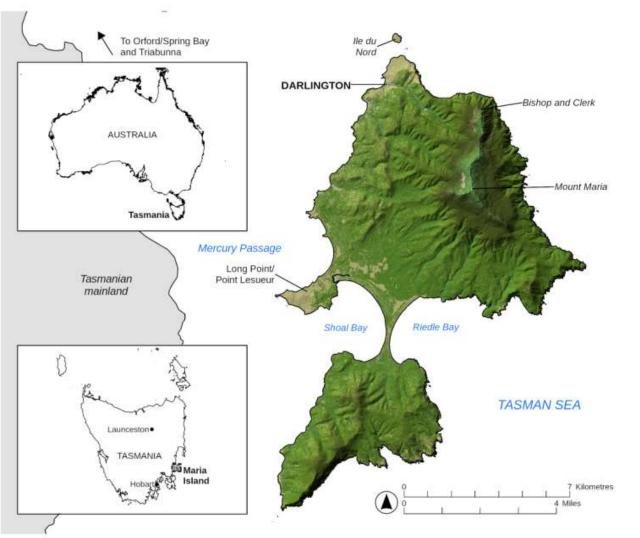


Darlington, today(ish) (Tas Parks)

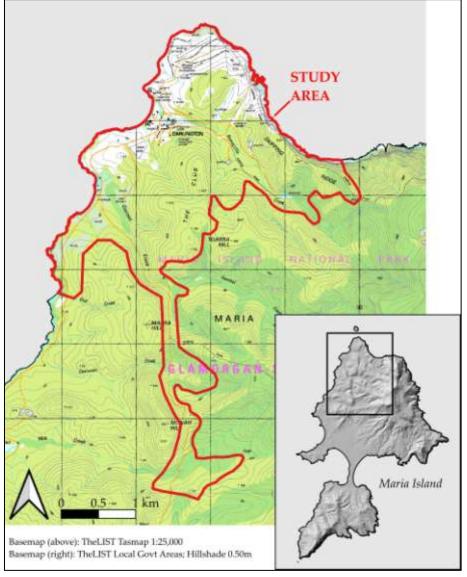
### To the results...

- Surveyed and mapped ALL phases
- Did geophysics and found...not much
- Published a web map
- Wrote a book
- Surveyed Long Point

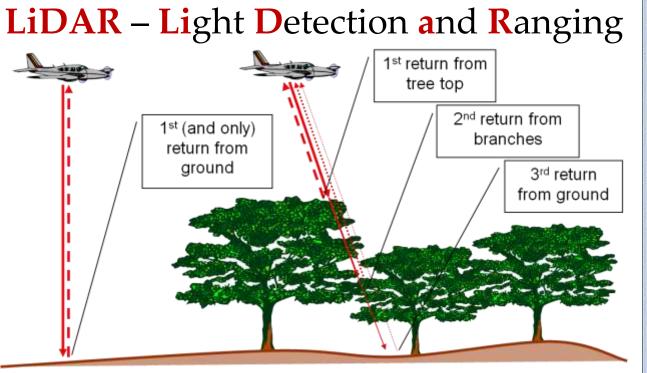
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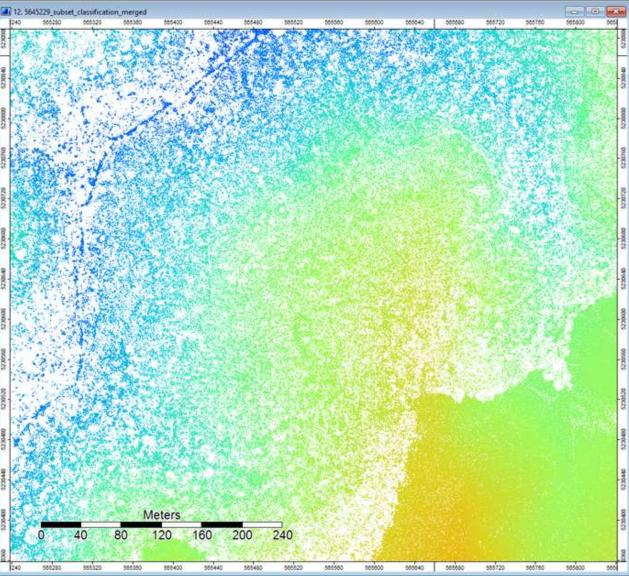


The island in all its glory...

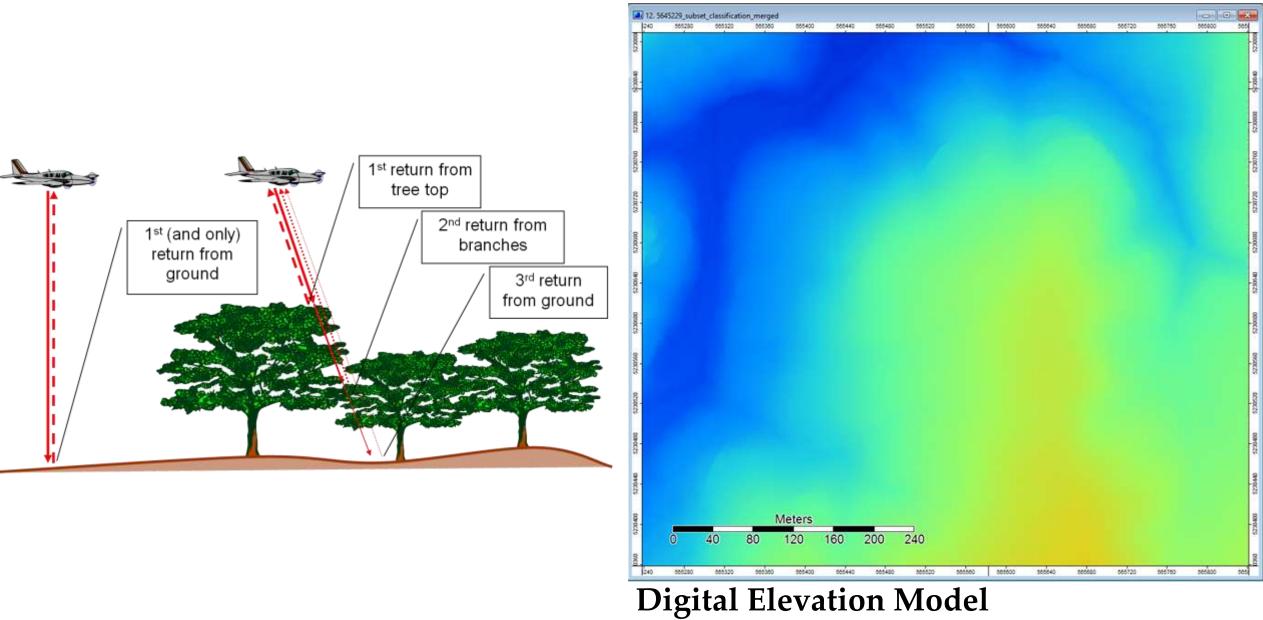


...but we didn't survey all of it

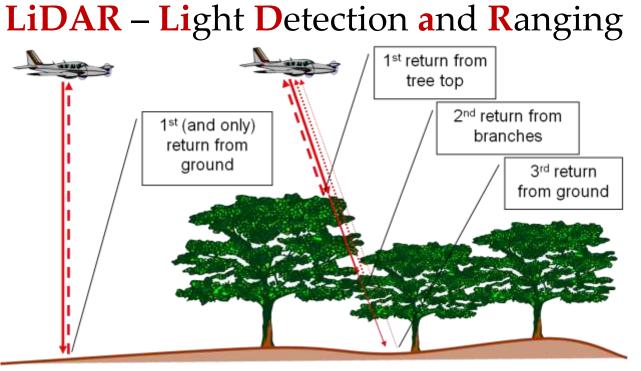


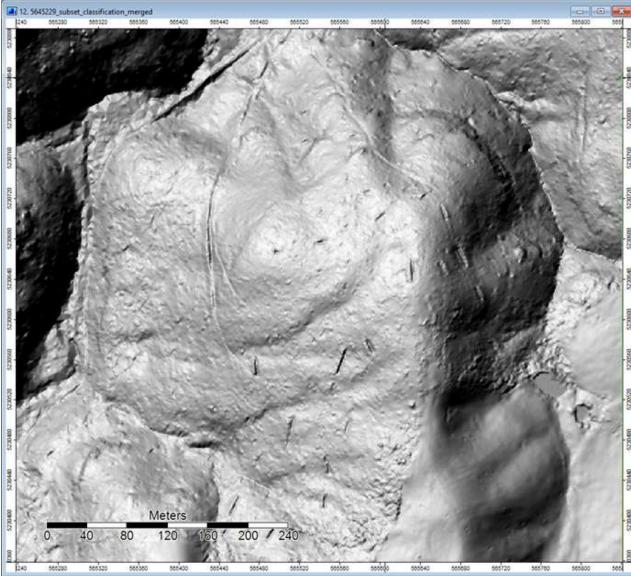


#### **Point data** 'Bare earth' returns



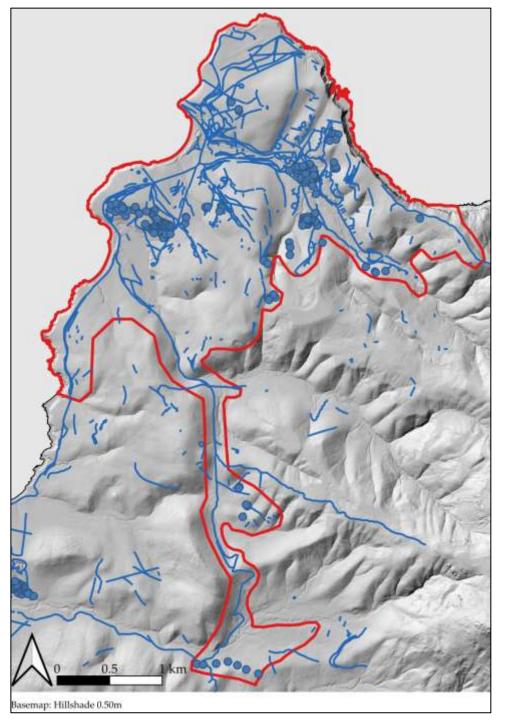
(DEM)





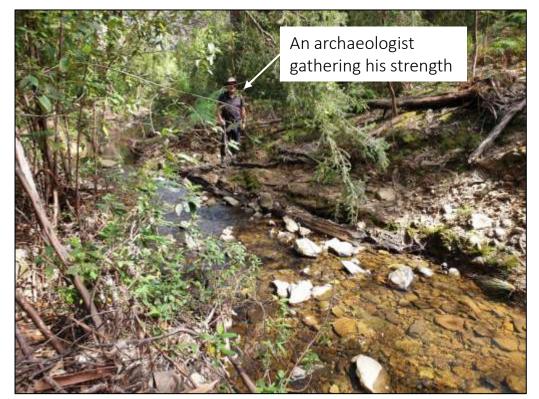
#### Hillshaded DEM

315 azimuth, 40 angle



Digitised things that looked interesting...

#### ...uploaded them to a GPS...

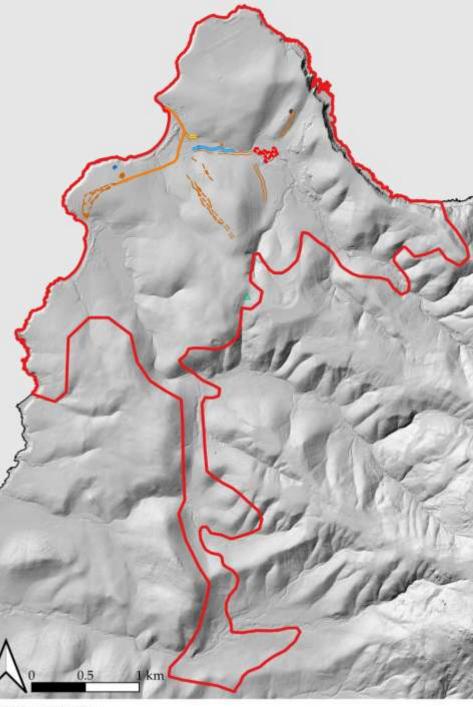


...and ground-truthed it through archaeological survey

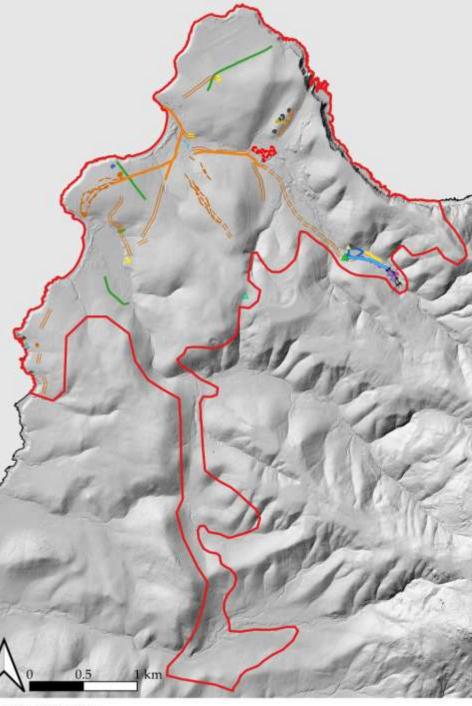
Phase	Date range	# Features
Convict – penal	1825 – 32	61
Convict – probation	1842 – 52	117
Bernacchi period	1884 – 97	92
Industrial period	1920 – 30	367
Post-Industrial period	> 1931	141
TOTAL		515



Phase	Date range	# Features
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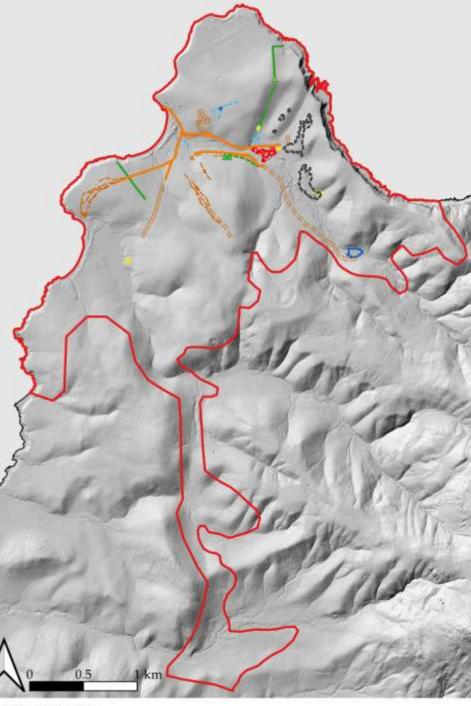


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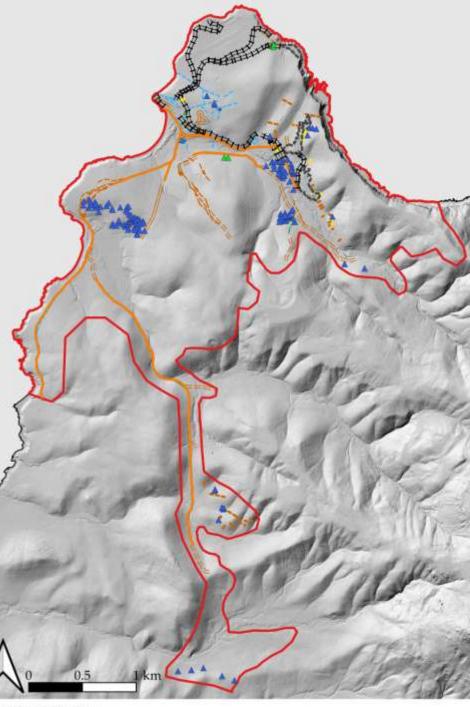


Basemap: Hillshade 0.50m

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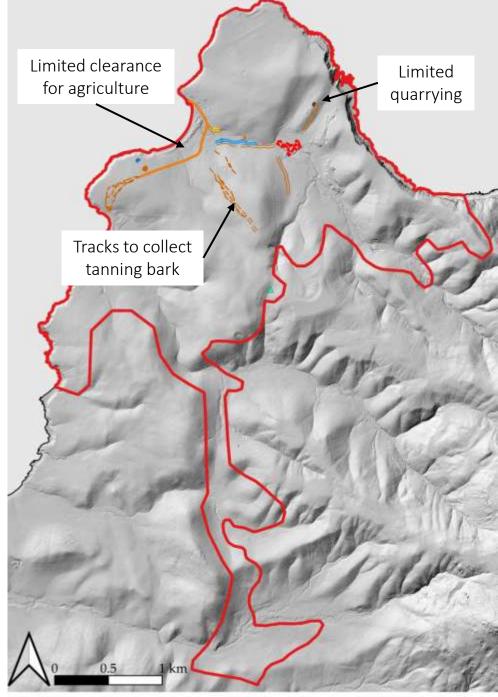


Basemap: Hillshade 0.50m

No startling finds were made, however...

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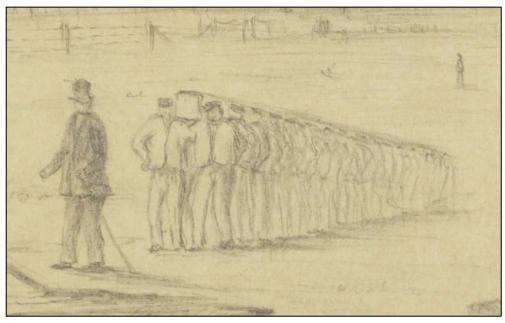
- the convict Penal Period had limited impact upon the hinterland



Penal Period features

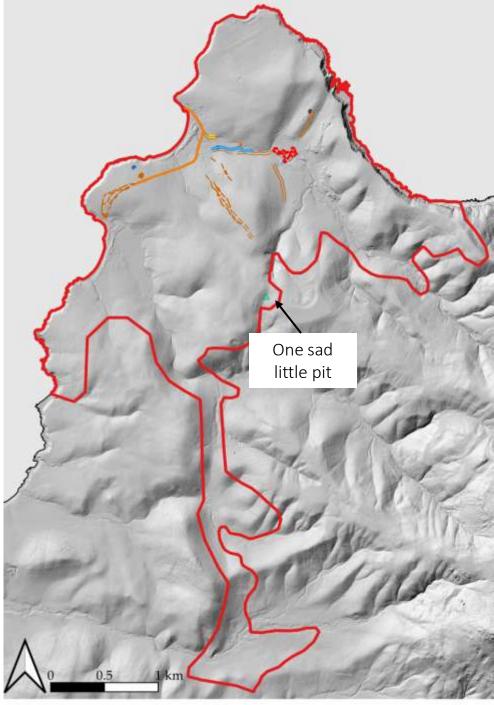
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- the convict Penal Period had limited impact upon the hinterland
- a surprising lack of evidence of timber-getting (no pits?)



Indicative of labour methods relying on bullocks and a lumber yard (Mitchell Library, SLNSW)

Penal Period features



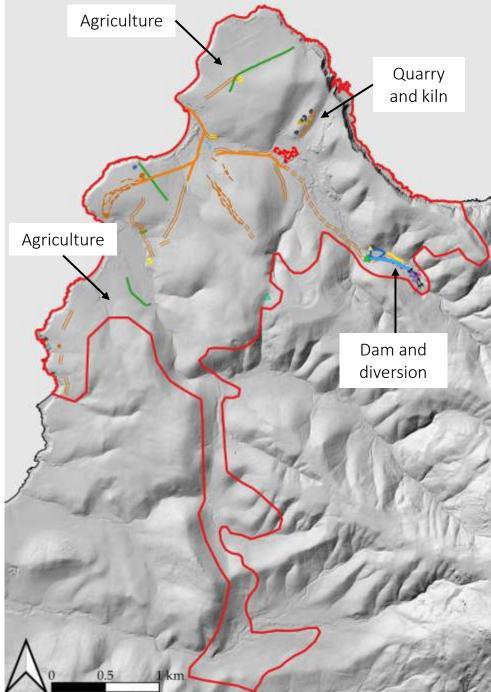
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- clearance for largescale agriculture during the convict Probation Period moulded today's landscape



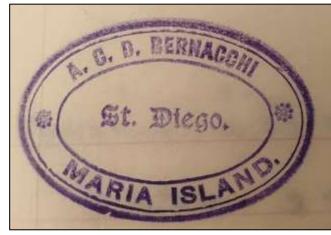
Largescale wheat cropping for rations (NLA)

Probation Period features



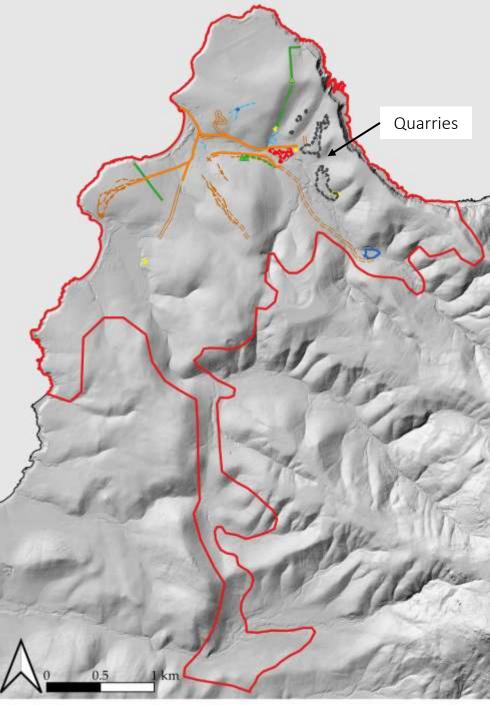
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  Period moulded today's landscape
- Bernacchi largely stayed within the limits set by the Probation Period



He had a stamp! (тано)

Bernacchi Period features



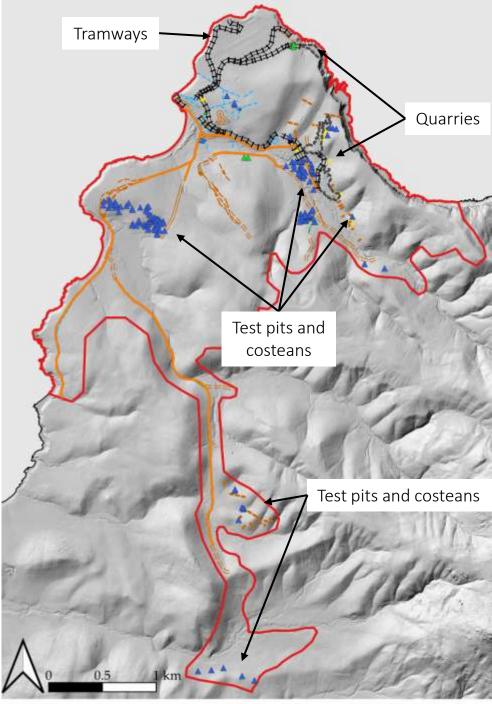
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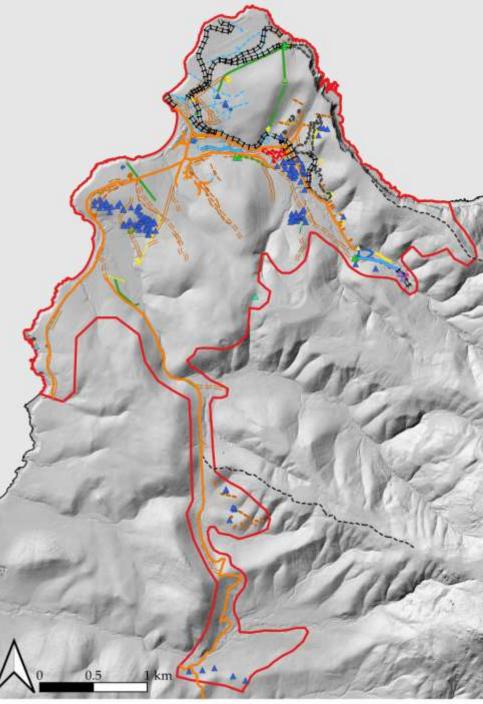
Who needs nice scenery (тано)

Industrial Period features



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- Bernacchi largely stayed within the limits set by the Probation Period
- the Industrial Period saw much greater exploitation and exploration of the hinterland
- that today's island is a mish-mash of all periods



All 515 cultural features surveyed

## Did geophysics and found...not much

We'd looked at the hinterland, what remained of the Penal Station core?

Very little remains of the Penal Station – just the 1830 barracks building and the Commissariat Store

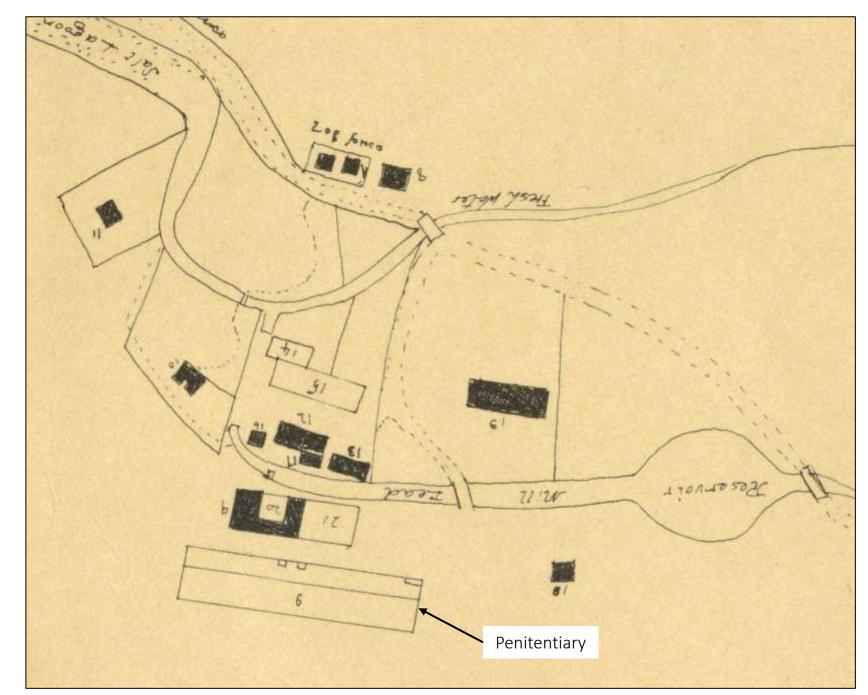


Penitentiary (David Roe)

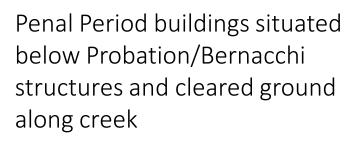


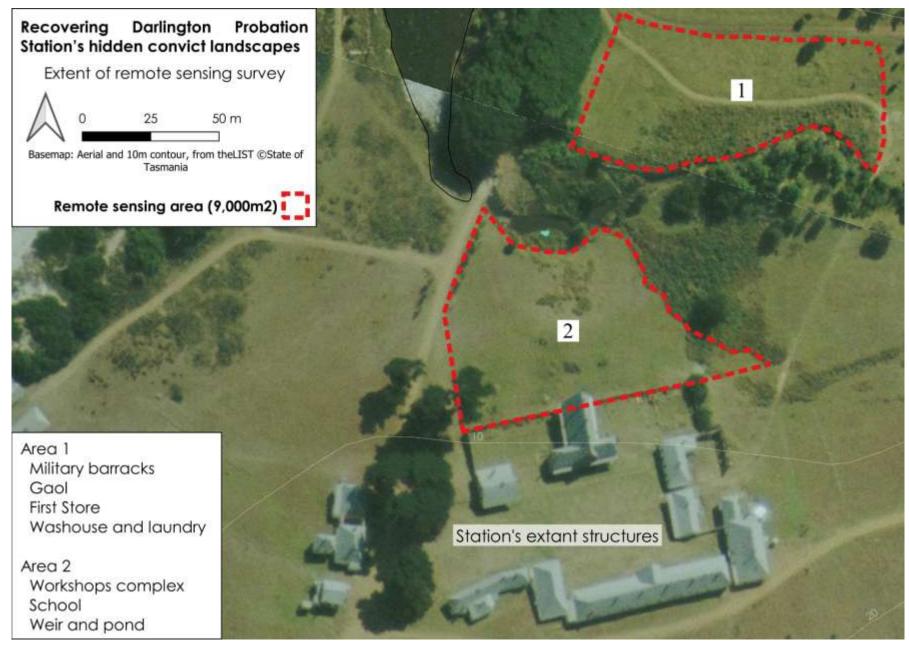
Commissariat Store (David Roe)

One 1832 plan to guide us...



1832 plan of settlement (тано)

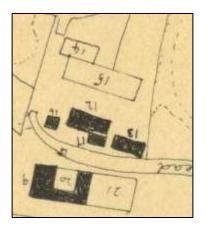




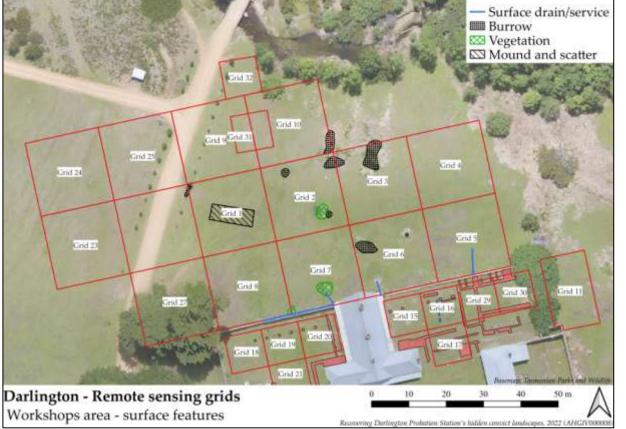
### Ground Penetrating Radar

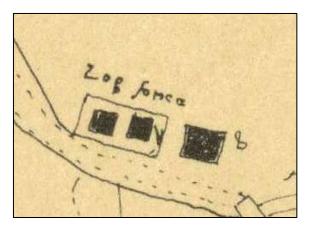
#### Resistance Meter



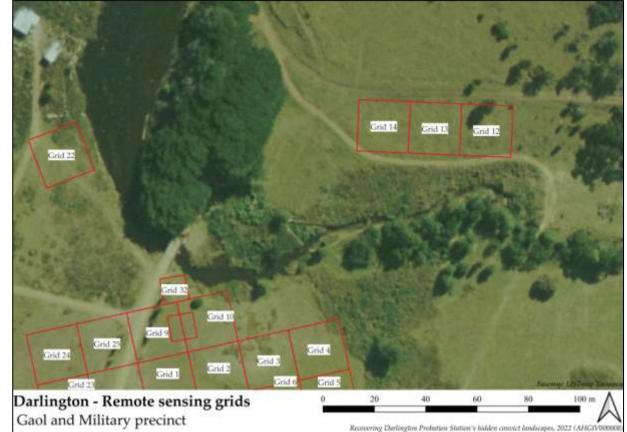


Workshops, Lumber Yard, Tan Yard, watercourse

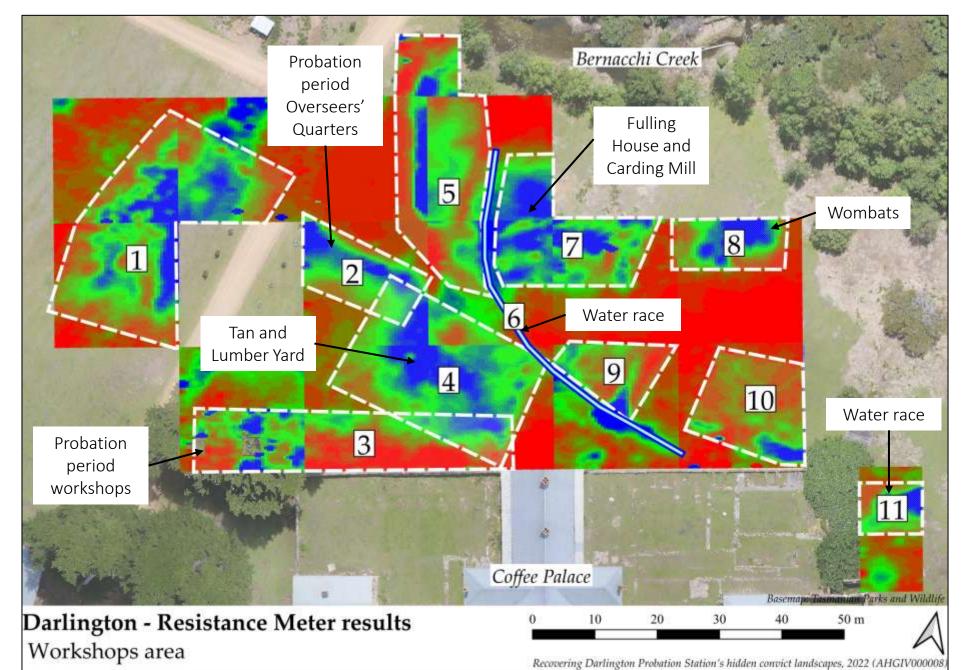




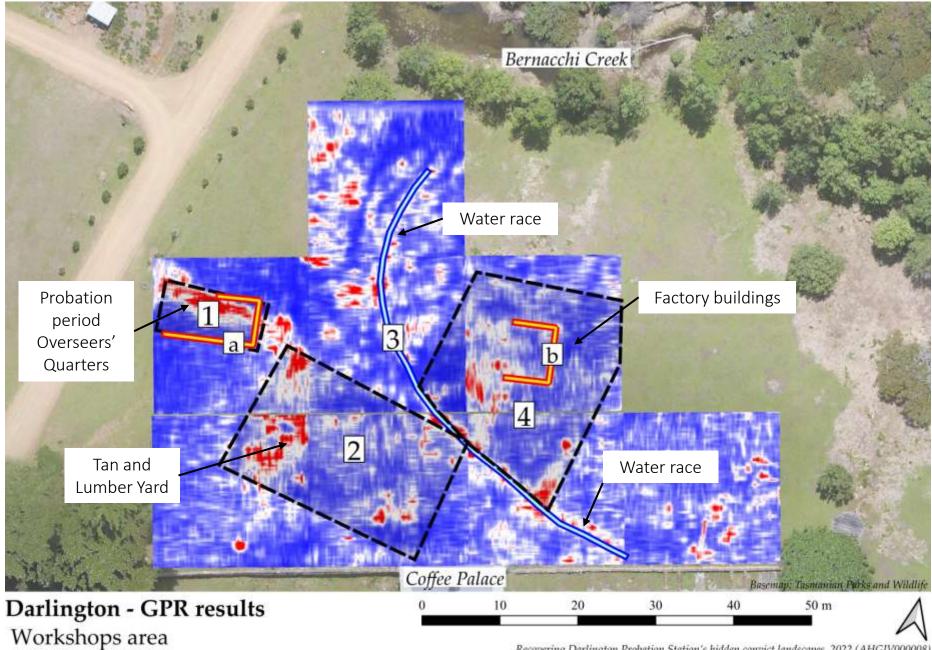
#### Military barracks and gaol



#### Workshops results – Resistance Meter

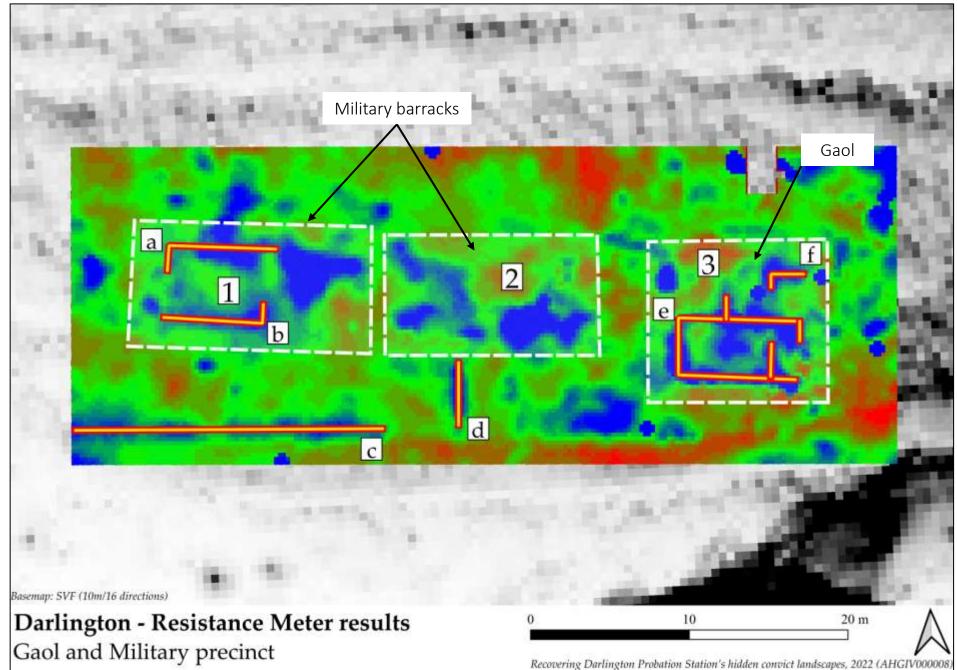


#### Workshops results – GPR



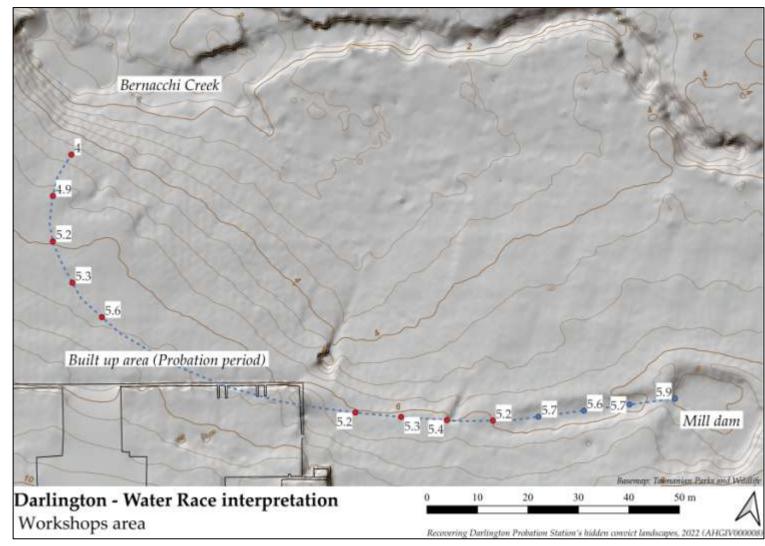
Recovering Darlington Probation Station's hidden convict landscapes, 2022 (AHGIV000008)

Workshops results – GPR



That geophysics is hard, but also...

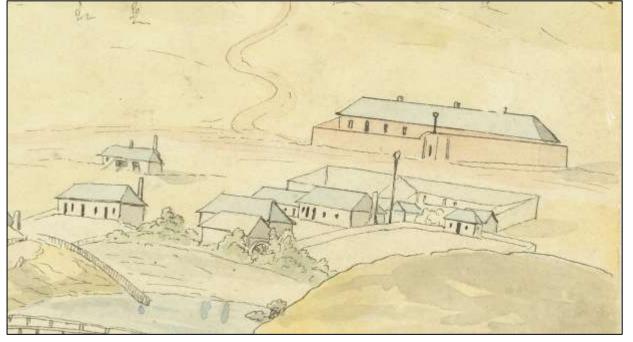
- refined alignment of water race



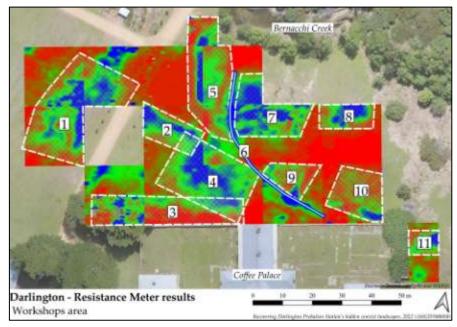
Estimated alignment of water race, showing heights

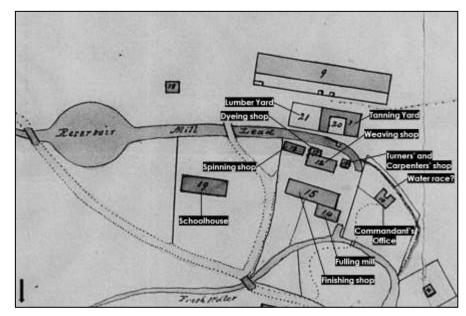
That geophysics is hard, but also...

- refined alignment of water race
- which helped us place factory structures



1832 illustration, showing factory complex (ТАНО)





That geophysics is hard, but also...

- refined alignment of water race
- which helped us place factory structures
- which helps Parks manage and interpret an otherwise empty field





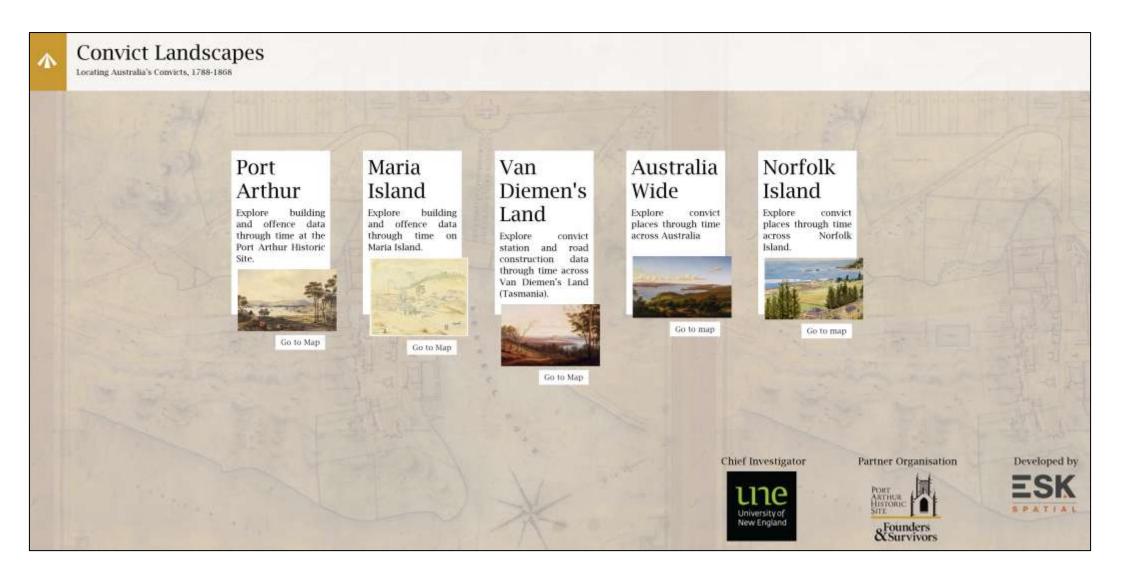
Not much to look at

That geophysics is hard, but also...

- refined alignment of water race
- which helped us place factory structures
- which helps parks manage and interpret an otherwise empty field
- which leads directly to our main outputs...

### Published a web map

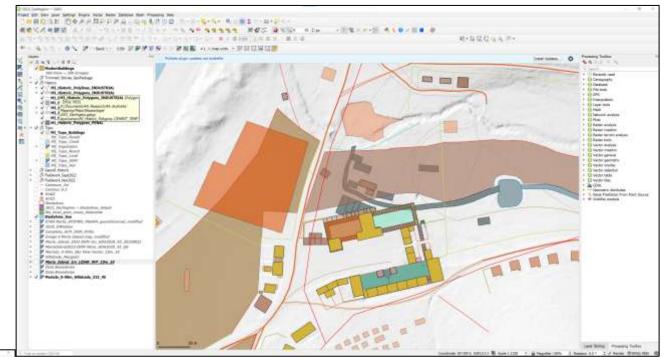
Part of a suite of maps done for previous projects: Port Arthur, Van Diemen's Land, Australia



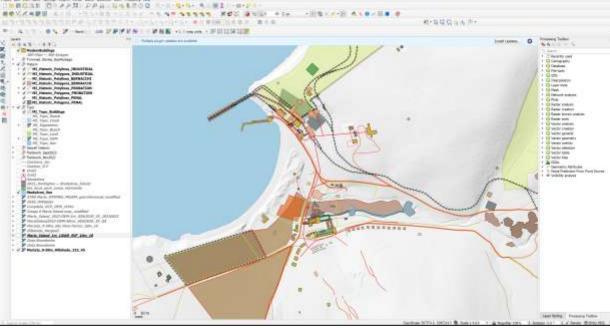
# Published a web map

Originated as a GIS map using information from:

- LiDAR archaeological survey
- geophysics
- archival research



Changes in settlement over four phases

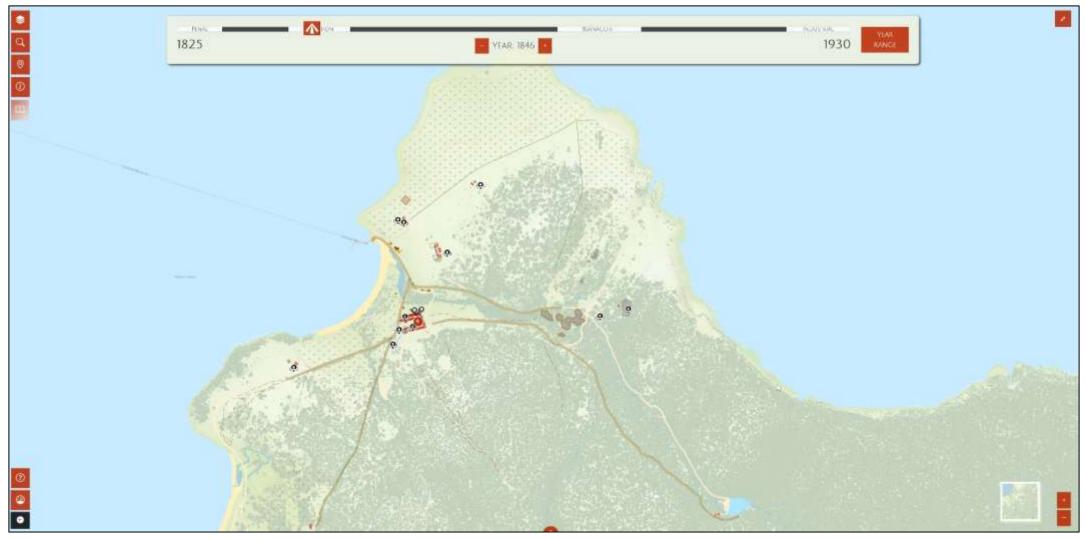


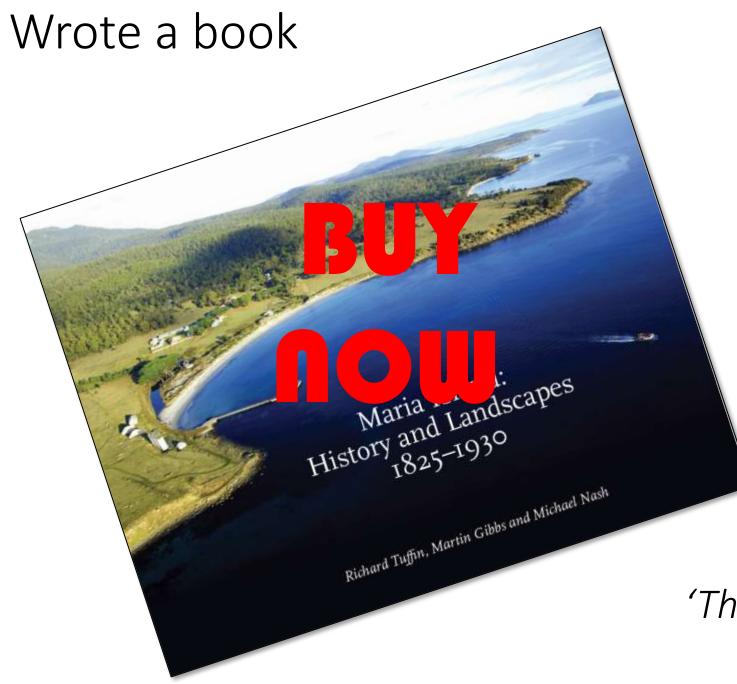
Changes over wider landscape

### Published a web map

#### Created in collaboration with Esk Spatial

- available desktop and mobile
- allows visitors to see where historic features were and how they changed









#### needed Alariy Alariy Rosen Alariya Rosen Ros

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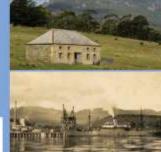


and behave. Investment and expectations, conferencementing and working. This basis is orrectioned around from key resolutions. However, device the second second the basis phone of contact associations being the basis period (charge up and the

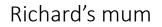
names of the Berner Oli Period (1994) (6), and the resource representation of the Industrial Period (1944) (1944)

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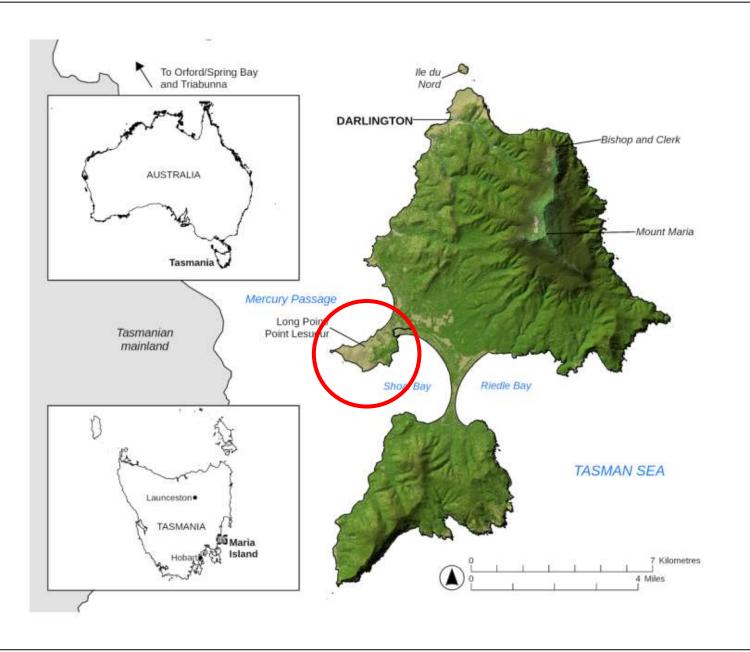




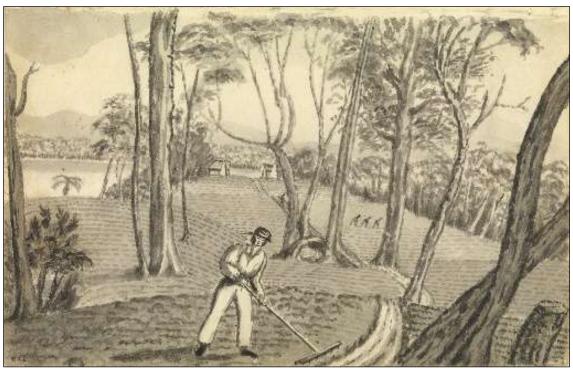
'The best book ever written'



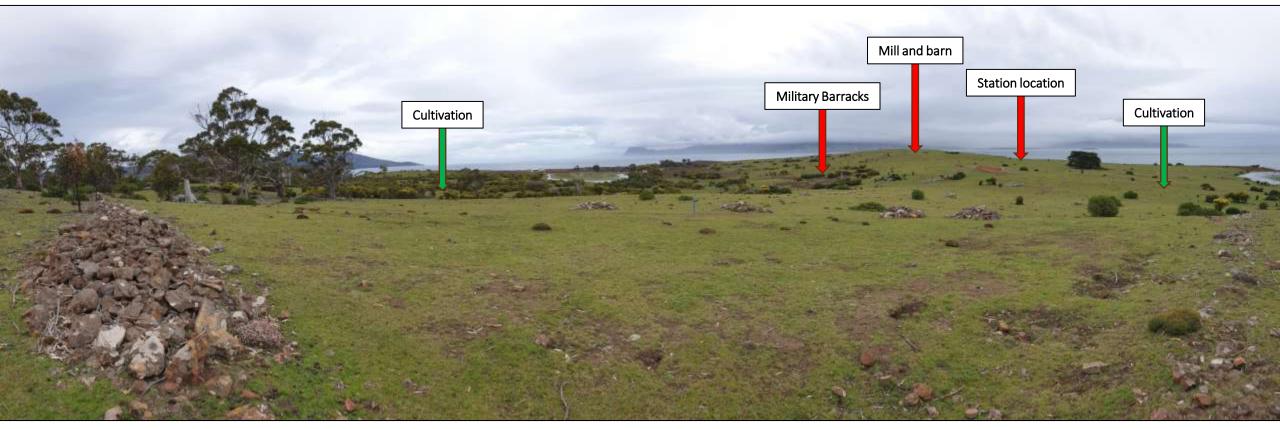
### As an added bonus...



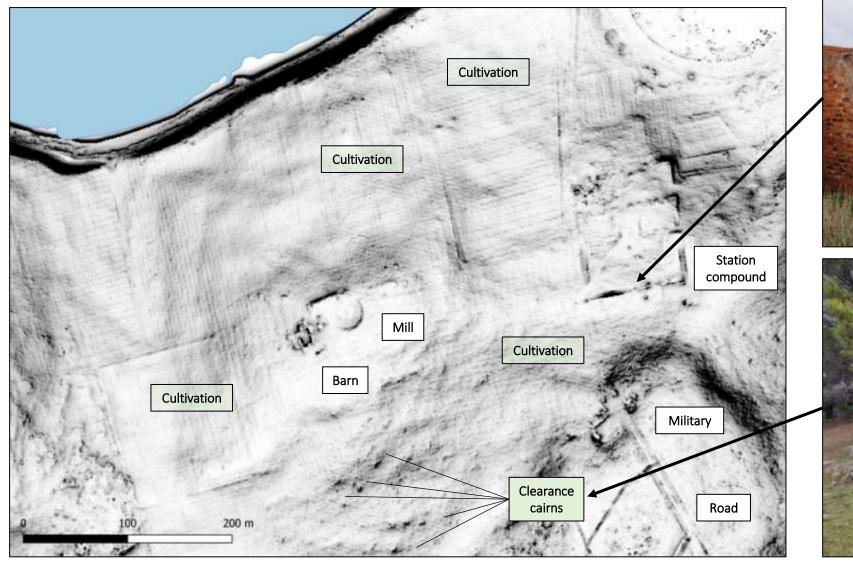
- Another probation station on the small island
- 1845 1848
- Population peak of over 370 in 1846
- Primary focus on agriculture and stock husbandry
- 300 acres cleared, largely wheat
- Accompanying infrastructure like windmill and barns
- Closed as a colony-wide rationalisation of the convict system
- Limited post-convict occupation



This is not Long Point (тано)



View looking south to the station



LiDAR-derived survey, showing convict period features (Author)



Separate cells (top) and clearance cairn (base) at Long Point. Martin for scale (Author)

### Acknowledgements:



Australian Government

Department of Climate Change, Energy, the Environment and Water

Australian Heritage Grant, 2022-23



History Fellowship, 2024

#### Fieldwork volunteers:

- David Roe
- Hannah Waterhouse
- Karen Welsh

#### Parks and Wildlife staff:

- Mike Nash (Heritage Officer)
- Katherine Hitchcock (Officer in Charge)
- Martin Fieldhouse
- Andrew Hitchcock (Field Officer)
- Madalyn Riley (Ranger)
- Andrew Ryan (Ranger)
- Geoff Swan (Field Officer)