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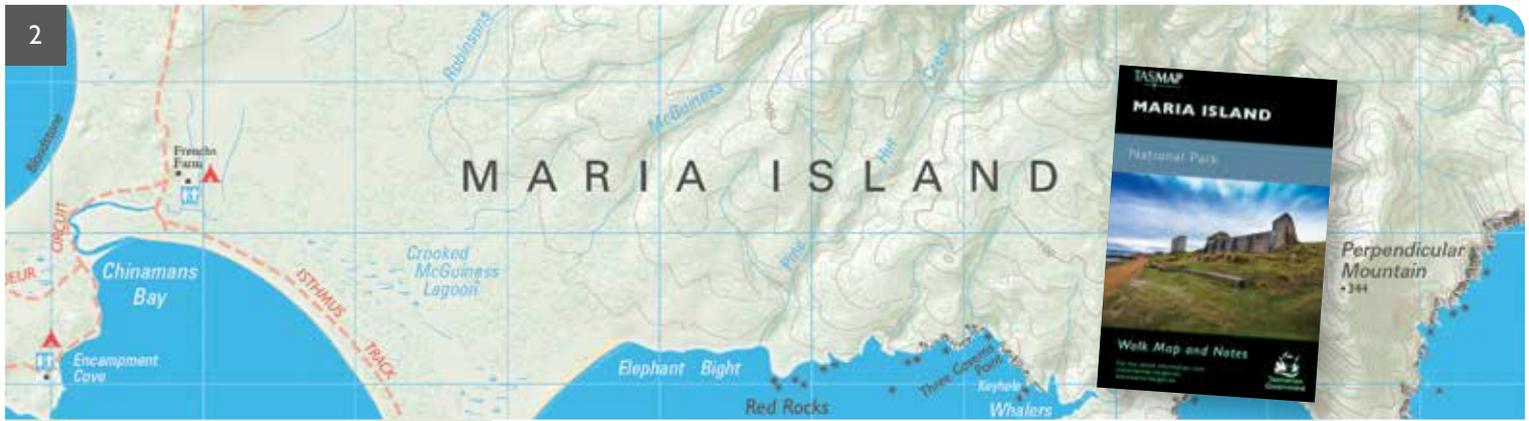
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location *matters*

LandTasmania

A point of reference for Tasmanian Land Information





Detail of the newly released Maria Island National Park map. Now available for purchase from Service Tasmania shops, TASMAM resellers and online at www.tasmam.tas.gov.au

This newsletter is designed and produced by Heritage and Land Tasmania, a business unit of the Department of Natural Resources and Environment Tasmania (NRE Tas).

location matters aims to keep clients and members of the community informed about new developments and progress with existing projects, as well as introduce you to staff and the work they do.

Please take a few minutes to provide feedback or ideas for future issues by completing the short questionnaire at <https://nre.tas.gov.au/locationmatters>

An electronic version of this publication can be found at: <https://nre.tas.gov.au/locationmatters>

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Cover photograph - Apogee Vineyard at Lebrina, courtesy of Andrew Pirie. Read the full article on page 4.

Message from the GM

Welcome to the 21st edition of location matters.

This is the first edition of our newsletter since the name of the Department changed to Natural Resources and Environment Tasmania, or NRE Tas. I'm sure you'll agree this is less of a mouthful than our earlier acronym, and has occurred to better align the Department's activities and functions with Government and portfolio changes.

So whilst there are additions to the NRE Tas stable, the Heritage and Land Tasmania team is still delivering our key services. However, you can see that our Business Unit has the addition of Heritage in the title. This is because the Heritage Tasmania group has joined with Land Tasmania. The synergies provided by this amalgamation, together with the strong systems approach present in Land Tasmania, is already strengthening the Heritage portfolio, and this is unpacked in more detail in this newsletter. In particular, a project to spatialise the Heritage Register has been completed, and a Heritage layer is now publicly available on the LIST.

When the last *location matters* was published, Tasmania was in the height of the pandemic response, and it is timely to note and recognise the breadth of support provided to the Government by many Heritage and Land Tasmania staff. Interoperability arrangements have included assistance with hotel quarantine arrangements, border permit processing, public hotline assistance and the provision of data analytics and mapping support to the State Controller and the Department of Health.



These activities have occurred largely out of sight of the public, but have been absolutely essential to the state's monitoring and response coordination.

Business transformation is a theme reflected in all aspects of the Business Unit at the moment. I have already mentioned the Heritage layers, and meanwhile the Land Titles Office is well into substantial transformation, including embarking on the pathway to join the National Electronic Conveyancing system. This journey will require amended legislation scheduled for later this calendar year, which will enable the alignment of both paper and electronic processes. In the not too distant future, citizens will benefit from increased efficiency and timeliness for conveyancing activities.

Lastly, for those of you intending to visit AGFEST in 2022, this year's event has been moved to the new dates of 24-27 August. Heritage and Land Tasmania will be present as usual to interact with the public and display the breadth of imagery, spatial information and enterprise mapping products that support the Tasmanian economy. Please visit us in the NRE Tas tent.

I hope you all enjoy this interesting and informative edition of *location matters*.

Michael Giudici
Acting General Manager
Heritage and Land Tasmania

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All photography has been taken by Tasmanian Government employees unless otherwise acknowledged.

Exploring Heritage listings

There are more than 5 000 individual places entered

in the Tasmanian Heritage Register, and online access to the Register's information is now available through LISTmap.

Sharing this information online has been a long-term strategic goal for the Tasmanian Heritage Council. One of the most frequent questions the Heritage Council receives is whether a property is heritage listed and why. Now everyone has access to the location, boundary and historic details of each Register entry, along with a statement of significance.

The Chair of the Tasmanian Heritage Council, Brett Torossi, said using LISTmap to host the information was an essential first step in providing property owners and managers, prospective purchasers and developers with the information they need.

"LISTmap allows users to view and create maps from hundreds of authoritative spatial datasets and incorporating a Tasmanian Heritage Register layer on this platform will be invaluable for many of our clients," said Ms Torossi.

"From a practical perspective, access to the Register will provide property owners and managers with the information they need to understand why a place is heritage listed, the extent of the listing, and the features that need protection.

"We hope this will assist in raising awareness and appreciation for these places and the importance of protecting them for the future."

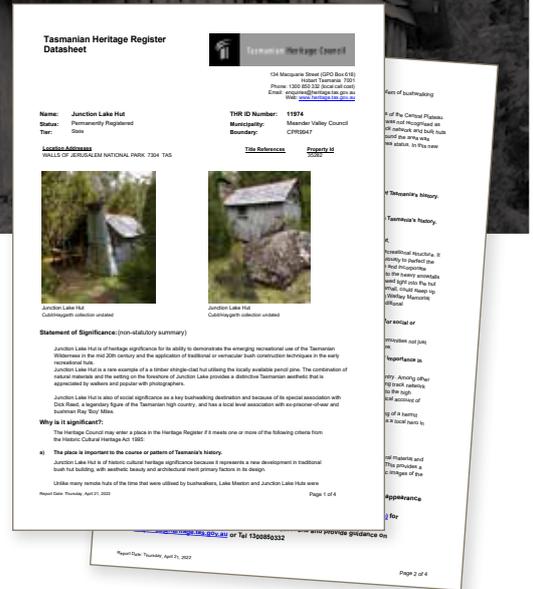
The Heritage Register layer also provides access to the many historical stories behind the historic heritage places that have shaped the social, cultural and historical fabric of Tasmania. There are the stories of convicts, authors and football, of mining for precious metals and building family dynasties.

"This work would not have been possible without the assistance and guidance from the staff at Heritage Tasmania and Land Tasmania, and we look forward to continuing this collaboration," said Ms Torossi.

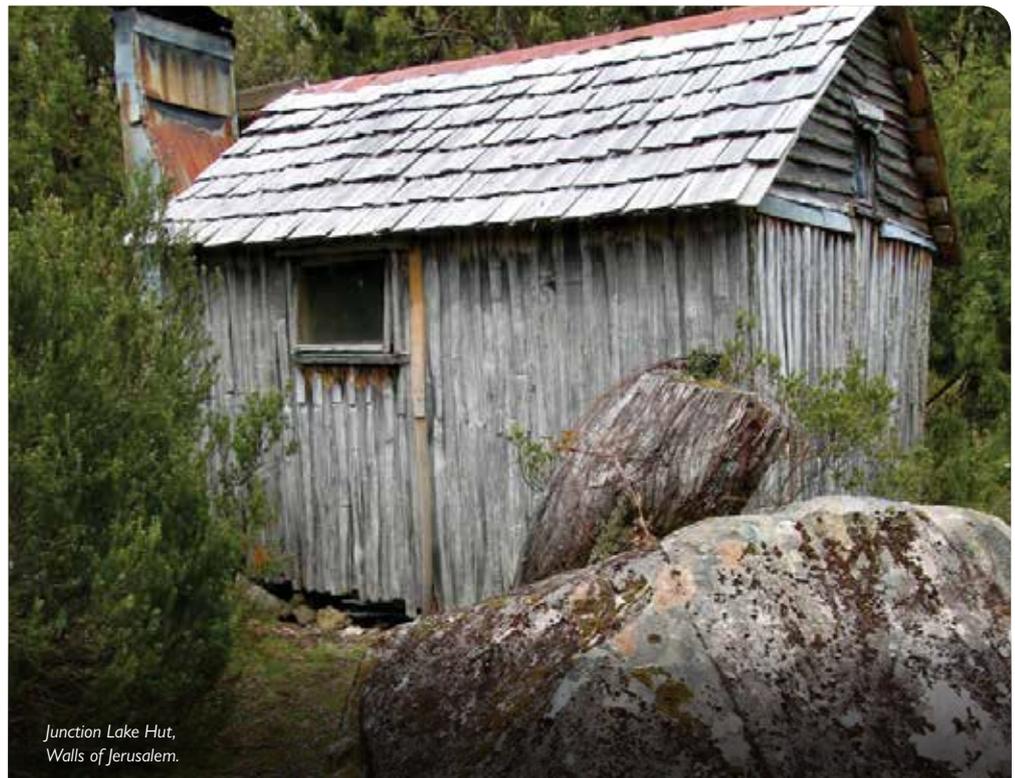
"Work is already underway to incorporate additional search functions within the Tasmanian Heritage Register that will provide history and heritage enthusiasts, researchers and teachers the option to search by architectural styles, construction dates, types of places, and by the themes that have shaped Tasmania.

"I encourage everyone to delve into the Register and explore the historic cultural heritage significance of these places."

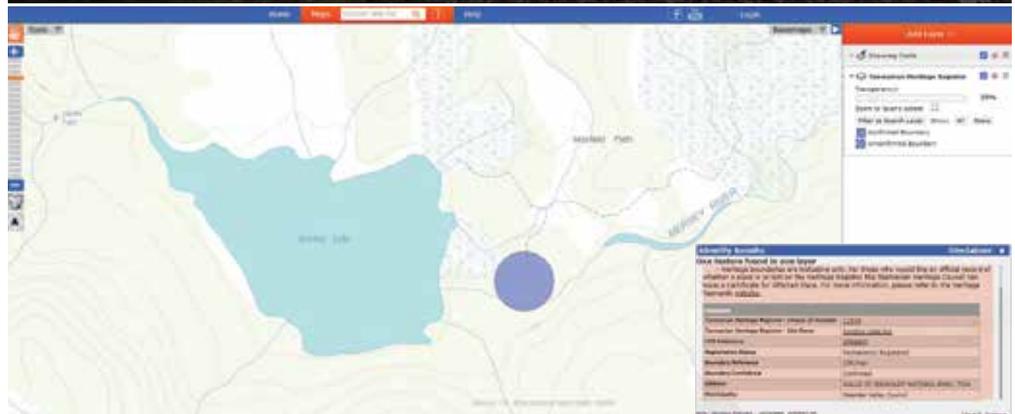
Tasmanian Heritage Register Datasheets now available via LISTmap



Visit the Tasmanian Heritage Register online with LISTmap at: <https://maps.thelist.tas.gov.au/listmap/app/list/map?bookmarkId=743423>



Junction Lake Hut, Walls of Jerusalem.



Tasmanian Heritage Layer spatially depicted in LISTmap - Junction Lake Hut, Walls of Jerusalem.

Click on the Tasmanian Heritage Register number to download a copy of the datasheet.

The pick of the crop

The Department of Natural Resources and Environment Tasmania

has modelled the suitability of various crops for Tasmanian soil and climatic conditions and has made the data freely available via LISTmap.

The analysis of large soil and climate datasets, combined with mapping technology, has seen the development of Enterprise Suitability Mapping tools. Through the application of known soil, landscape and climate preferences for specific crops (crop rules), it is possible to predict the suitability of such crops to farming land. The Enterprise Suitability maps help producers make decisions, manage resources, and ultimately be more resilient. They assist farmers and potential investors to answer the question: what can I grow where?

Delivering the data through LISTmap provided not only a powerful visual tool but also a useful research tool. Armed with the maps and the information they convey, stakeholders have consistently highlighted that climate change and its effects are a significant factor impacting agricultural competitiveness.

Modelling data from the Climate Futures research program, a project of the School of Geography and Spatial Sciences at the University of Tasmania, has been integrated with the Enterprise Suitability Mapping to indicate potential changes in suitability from projected climate change.

The mapping provides a powerful visual tool for decision support for farmers, industries, and investors to plan and adapt to changing climate factors.

"As a consultant I use LISTmap for the wine grape suitability maps on an ongoing basis and in my direct experience the maps have led to a \$4m new vineyard expansion on one property in the White Hill area, let alone the rest of the state. I have been contacted by real estate valuers who told me they are now assessing vineyard suitability for new sites using the maps. The long-term accuracy of the maps is reliant on the scientific platform used, which so far, appears to be giving meaningful results."

Andrew Pirie AM
Vigneron and Viticultural Consultant

Further information on the Enterprise Suitability Toolkit and help to freely view and access the data from LISTmap are available at:

<https://nre.tas.gov.au/agriculture/investing-in-irrigation/enterprise-suitability-toolkit/enterprise-suitability-maps>

An example of an Enterprise Suitability Map for table wine grapes - showing overall suitability rating as well as underlying climate information (Richmond area, SE Tasmania).

Home Maps Search the Map... Help Login

Basemaps

Add Layer +

Drawing Tools

Hillshade Grey Basemap

ESM - Table Wine Grapes [CFT 2050 RCPs 8.5]

More Information

Transparency: 40%

Zoom to layer's extent

1.0 Well suited

2.0 Suitable

2.1 Suitable (frost protection recommended)

2.2 Suitable (frost protection required)

3.0 Moderately suitable

3.1 Moderately suitable (frost protection recommended)

3.2 Moderately suitable (frost protection required)

4.0 Unsuitable

Identify Results Disclaimer

One feature found in one layer

ESM - Table Wine Grapes [CFT 2050 RCPs 8.5] (one feature)

Feature	
User Notes	Table Wine Grapes_CFT.pdf
Overall Suitability Rating	1.0 Well suited
Cumulative rainfall days (March to April)	<20 days (Well suited)
Frost risk during harvest	Very low frost risk: frost event occurs less than once in a 20 year period (Well suited)
Frost risk after budburst	Very low frost risk: frost event occurs less than once in a 20 year period (Well suited)
Growing Degree Days	>1150 (Well suited)
Flood Risk Rating	NA

POI: GDA94 MGA55 : 533778E, 5270450N Identify Options

the list Providing all the information about your property

New Aboriginal and dual names approved

What information can a farmer dig up?

Forming the backbone of the Enterprise Suitability Maps are soil and climate maps, which are available to use in a purpose-built web map viewer. Farmers can zoom into their parcel of land and overlay a range of soil and climate maps in the context of their local surroundings. For example, users can view a soil drainage map to prioritise well-drained areas. Conversely, a frost map can inform on areas to avoid during crucial phenological stages, such as budburst for wine grapes.

Soil maps also feature information on drainage, permeability, soil depth and stone abundance. Similarly, climate maps include monthly temperatures, frost risk, heat risk, degree-days, chill-hours and rainfall. Climate maps also incorporate climate projection modelling to 2030 and 2050, including recent climate observations to 2018.

Under the Aboriginal and Dual Naming Policy

(ADNP) an annual calendar of naming submissions has been established to enable appropriate and considered consultation to be undertaken. The 2021 tranche of proposals featured six Aboriginal dual names for features in the north-east and central-east of Tasmania. They have now been approved and are shown on TASMMap mapping products.

The Aboriginal dual names assigned are:

- Larener / George Rocks
- Roobala Mangana / Tenth Island
- Tareerpattel-tarerenner / Ninth Island
- Tinamirakuna / Macquarie River
- Warenekomekar / Swan Island
- Wayterkobuner / Waterhouse Island

A range of resources are included on the NRE Tas internet page, including a location map, a bookmark to a spatial depiction of features on LISTmap, as well as a complete list of all Aboriginal and dual names assigned under the ADNP.

<https://nre.tas.gov.au/land-tasmania/place-naming-in-tasmania/aboriginal-and-dual-naming>

The 2022 tranche of Aboriginal names has now been referred to the Aboriginal and Dual Naming Reference Group for community consultation, research and assessment. The Group is set to provide advice to the Place Names Advisory Panel by September.

The Place Names Office is available to provide information regarding place naming, including Aboriginal and dual naming. Queries can be forwarded via email to: placenames@nre.tas.gov.au



Drop by for a chat at AGFEST

Our friendly and knowledgeable staff from Heritage and Land Tasmania

will be at AGFEST this August to display the huge range of LIST products and services that are now available. You can find out how we're increasing the accessibility of location information and products, delivering elevation and imagery products, and growing the use of location-based information to assist delivering a sustainable Tasmania.

Look out for the NRE Tas tent on South Street, Site S70 – S76.

the **LIST**
www.thelist.tas.gov.au

Online training **now** available for LISTmap

Heritage and Land Tasmania continues to offer training to organisations in the use of LISTmap. In addition to traditional on-site training, we can now deliver sessions in an online environment.

Our LIST help videos, which are accessible via YouTube, are being reviewed and updated, and provide an excellent resource for self-paced learning. If you would like to know more, please contact our LIST help desk or view the videos at <https://www.youtube.com/user/gsbclientserv>

Client Services contact details

Normal operating hours for all client enquiries are:

9.00am – 5.00pm Monday to Friday

LIST Helpdesk

E-mail: listhelp@nre.tas.gov.au

Phone: (03) 6165 4444

Web: via the client request form



 Sunken tug boats captured by the SIG during January's Mersey Oil Spill incident.

In 2019 the Tasmanian Government invested

in a dedicated Specialist Intelligence Gathering helicopter (SIG) to assist with providing near real-time, spatially enabled field intelligence for emergency response.

At the heart of the SIG's data collection capability is an underbelly mounted camera array, originally developed for military applications. The camera system contains sensors for both colour and thermal infrared imaging, and, coupled with a powerful zoom, the infrared technology can penetrate smoke to identify features of interest up to 20 km away.

Onboard the SIG there is a dedicated camera operator who controls both the camera and an accompanying mapping system, capturing spatial data direct from the video stream. Captured data, imagery and video are streamed via multiple mobile networks to 'cloud' based systems, for near real-time dissemination to front-line crews and incident management staff. Onboard,

the mapping system augments the live video with incident information and data layers, such as roads, points of interest, assets and addresses. This assists the operator and responders to rapidly and accurately understand the context of the unfolding incident.

The SIG is a multi-agency statewide asset, and Heritage and Land Tasmania's Emergency Services GIS program (ES-GIS) has integrated the SIG's data with LISTmap's Common Operating Platform, which is used across all government agencies for incident management.

This simplifies secure access to the SIG's data and improves situational awareness for anyone working on an incident. The ES-GIS team has also integrated its desktop mapping tools with the SIG, enabling the regular, timely production of digital operational maps to support front-line crews responding to any hazard event.

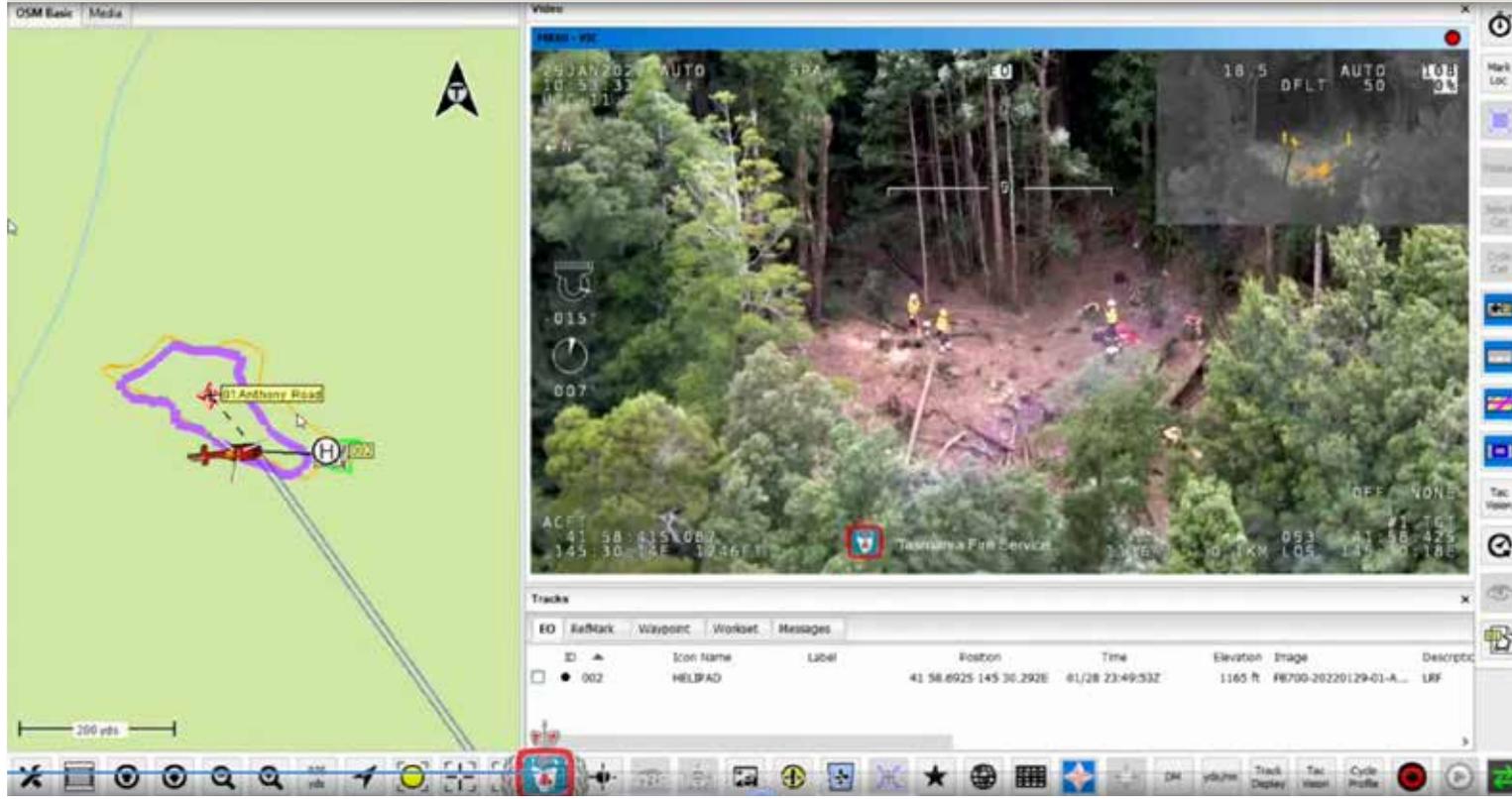
Since its arrival the SIG has been used extensively for fire-related applications

such as lightning strike investigations, fire boundary mapping, hot-spot detection, and fire progression. However, as a multi-role capable asset, the SIG has also been deployed to assist missing persons searches, and to map January's Mersey River oil spill in Devonport. With its ability to quickly deploy to any hazard, the SIG has proven to be an invaluable tool that enhances the state's potential response to a wide array of future incidents.



Above, SIG's camera array featuring a precision laser range finder with high resolution visible and thermal infrared sensors.

Below, on-board mission software enables the operator to capture spatial data direct from the video as well as share, in real-time, the visible and thermal imagery shown alongside a live updating map.



1:50 000 statewide coverage is now complete

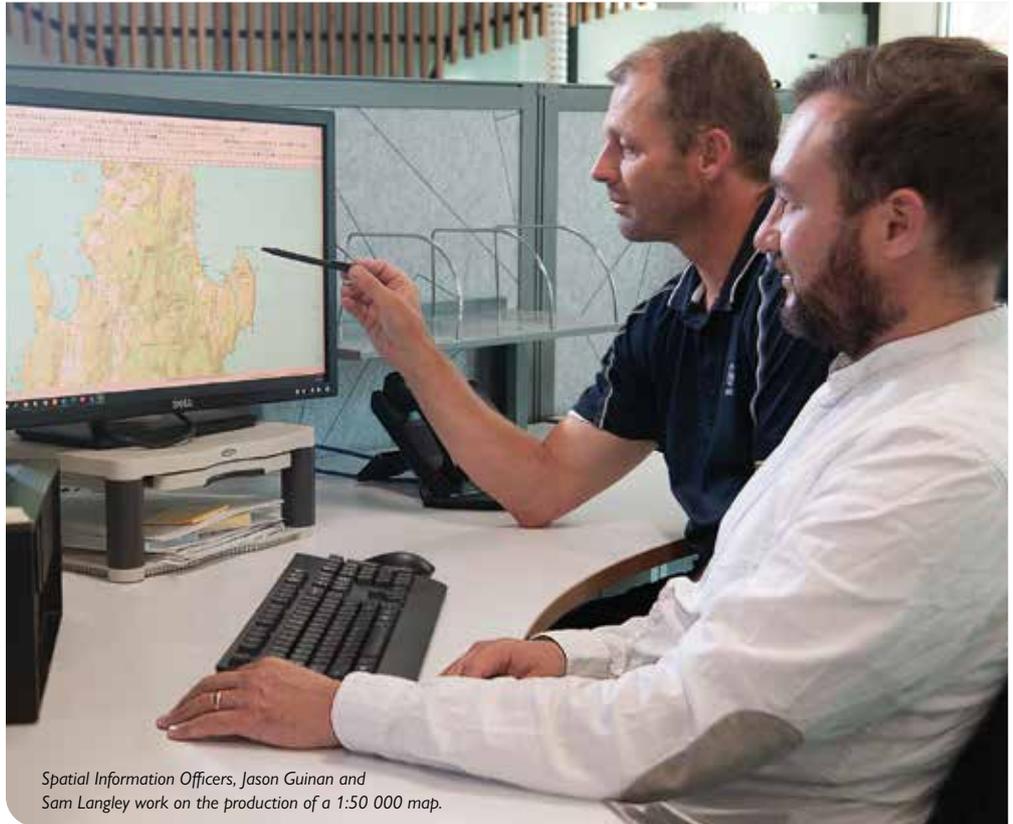
A new edition of *Western Arthur*, one of the best selling TASMAL products, has just been released.

Map users now have a complete statewide 1:50 000 paper and digital map series

of Tasmania and all its offshore islands. Each map covers a 30 x 40 km area, with 1 mm on the map representing 50 m on the ground.

The 1:50 000 series, comprising 75 maps, incorporates the best features of the previous 1:25 000 and 1:100 000 series, while providing a clear and accurate portrayal of topographic information. Symbols and map content give an enhanced depiction of buildings, hill shading and a simplified classification of vegetation. The series was launched in 2015 after public consultation, following the release of the TASMAL *Future Directions* document that showed that 1:50 000 was well supported as a scale for a Tasmanian base mapping series.

The series has proved popular for map users with annual sales approaching 10 000 maps. To purchase your copy, go to: <https://www.tasmap.tas.gov.au/>



Spatial Information Officers, Jason Guinan and Sam Langley work on the production of a 1:50 000 map.

Ongoing reform in the Land Titles Office

Last year ended on a high note for the Land Titles Office's

(LTO) reform program with the passing of the *Land (Miscellaneous Amendments) Act 2021*. The Act's notable changes include amendments to the rules around severing joint tenancies to make estate planning easier, and extending the duration of priority notices to 90 days, which far better reflects the realities of modern conveyancing transactions.

The momentum continues this year, with three major upcoming reform activities to keep an eye out for.

The first is the ongoing project of reviewing the *Strata Titles Act 1998*. With the scale of the necessary reforms becoming clearer from public feedback, the reforms have been categorised into three stages. The first, focusing on introducing flexibility in day-to-day body corporate administration, will hopefully be tabled before Parliament later this year. With this foundational work complete, more complex issues will be addressed in subsequent stages of the review.

The second major activity is the review of the LTO's legislative regulations. Public consultation is now underway, and the new regulations will be gazetted by the end of the year.

The third major activity is the ongoing preparation for the introduction of the National Electronic Conveyancing system into Tasmania. This work has included collaboration at a national level to introduce interoperability between electronic lodgment network operators to enable participants in electronic conveyancing to utilise the operator(s) of their choice. Within the LTO, our officers are working towards alignment of paper and electronic lodgment requirements to make the eventual transition as smooth as possible. For more information go to: <https://nre.tas.gov.au/land-tasmania/land-titles-office>

News in brief...

Fresh valuations nearing completion

Fresh valuations for the municipalities of Central Highlands, Devonport, Hobart, Huon Valley, Kentish, Kingborough, Latrobe, Southern Midlands, West Coast and West Tamar are nearing completion. Data is currently being returned to the Office of the Valuer-General, with new Valuation Notices to be released prior to 1 July 2022.

New Adjustment Factors for municipalities not currently subject to a Fresh valuation were gazetted on 9 March 2022. For further information on Adjustment Factors, please go to the NRE Tas OVG page at:

<https://nre.tas.gov.au/land-tasmania/office-of-the-valuer-general/property-valuation-adjustment-factors>

Capture area of LiDAR continues to expand

LiDAR, which stands for Light Detection And Ranging, is a relatively new remote sensing technology that uses airborne laser scanning of ground features. It has revolutionised mapping, as well as many areas of the spatial sciences. Tasmania's capture of LiDAR through the Tasmanian Imagery Program (TIP) began in 2008 and today, 66 per cent of the state's landmass has been captured. Some of the new areas captured this year include the Black Bluff, Rapid River and the Wild Rivers Frenchmans Cap regions. The stunning LiDAR Hillshade relief map of the ground surface is available in LISTmap; look for the Hillshade layers in the LISTmap basemap options. The LiDAR data itself forms an important contribution to Australia's foundational spatial datasets and is freely available for download from:

<https://elevation.fsd.org.au/>



LiDAR capture of the Ironbound Range and Lake Geeves located along the South Coast track in Southern Tasmania. Different colours represent elevations above sea level.

Flinders Island Tourist Map recently released

TASMAP has just released a new product for visitors to the tourism hotspot of Flinders Island. The largest of the 52 islands in the Furneaux Group, and located off north-eastern Tasmania, Flinders Island is a destination of exceptional beauty. This tourist map is a great resource if you want to wander a deserted beach, climb a mountain that juts out from the sea, fossick for a Killiecrankie diamond, go kayaking or feast on fresh produce. Perhaps you'd prefer to simply curl up with a good book and enjoy the serenity. Whether you are visiting for a few days or a couple of weeks, the Flinders Island Tourist Map can be used to plan your trip and locate all the exciting activities to enjoy on your holiday.

Shorebird layer helps protect sensitive coastline

Land Tasmania recently added a public shorebird and seabird layer to LISTmap. It identifies the risk and vulnerability of Tasmania's coastline to human disturbance in an easy to interpret traffic light format. Using a red, orange and green traffic light scheme, it shows high, medium and low risk / vulnerable areas where human disturbance should be avoided, minimised or will have minimal impact on natural habitats.

Developed by Birdlife Tasmania, NRM South and the Department of Natural Resources and Environment Tasmania, the new layer is a tool to help the seafood industry, community and other stakeholders identify and plan around sensitive foreshore areas before embarking on activities. Go to:

<https://maps.thelist.tas.gov.au/listmap/app/list/map?bookmarkId=727781>



Photograph taken from the southern end of Trousers Point looking south east towards Trousers Point Beach and Mount Belstead.

Flinders Island Tourist Map
New product - now available.

NEW TASMAP PRODUCTS

Recently released map products are now available for purchase online at www.tasmap.tas.gov.au or from Service Tasmania shops and TASMAP resellers.

1:50 000 Topographic Maps

- Ben Lomond Ed 2
- Boullanger
- Emu River
- Great Oyster
- Maria
- Port Davey
- South Bruny
- South Coast
- Western Arthur Ed 2



National Park, Walk and Recreation Maps

- Maria Island National Park Map
- Mount Anne Walk Map
- Mount Field Walk
- Peninsula Walks
- Walls of Jerusalem National Park Map
- Highland Lakes



Tourist Products

- Visitors Map of Tasmania 2022
- Flinders Island Tourist Map



Digital downloads

- National Park, Walk and Recreation Maps
- 1:50 000 Topographic Maps – complete coverage - available as a statewide coverage on USB drive.

Now available online at
www.tasmap.tas.gov.au

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T: (03) 6165 4444

E: listhelp@nre.tas.gov.au

W: <https://nre.tas.gov.au/locationmatters>

the **list**

www.thelist.tas.gov.au

TASMAP

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