

EDITION 8

APRIL 2014

Online ISSN: 1837-994X

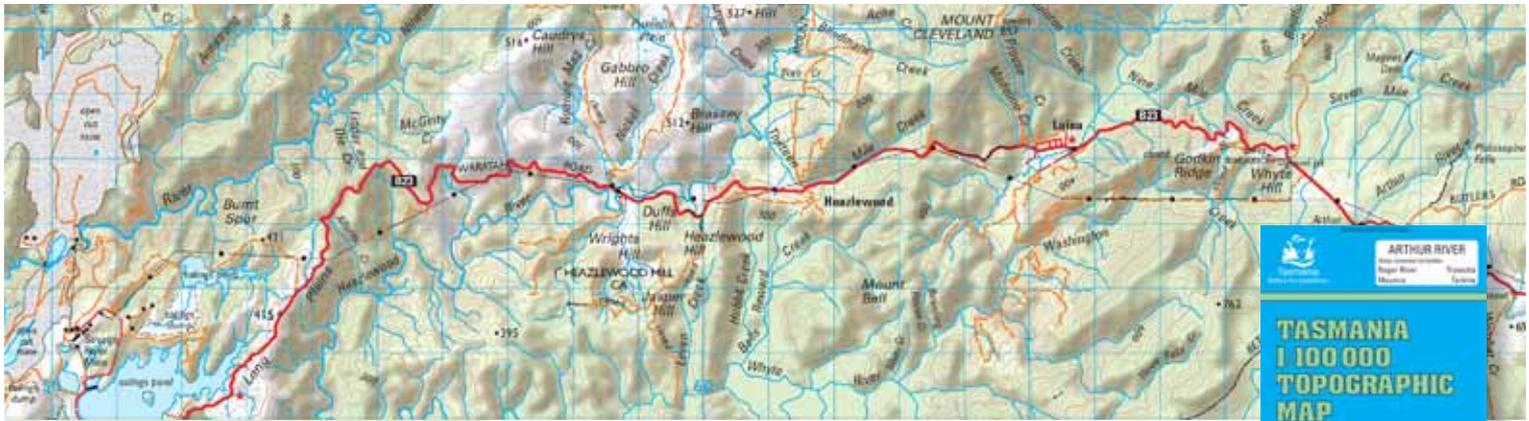
# location *matters*

A *point of reference* for Tasmanian land information



## THIS ISSUE

- The new LIST
- Planning Schemes Online
- Maze Craze
- Sense-T and Stats Matter
- Tasmanian Online Plans
- Future opportunities for ILS
- Recent retirements
- New CORS on King Island



This newsletter is designed, written, edited and produced by the Information and Land Services Division of the Tasmanian Department of Primary Industries, Parks, Water and Environment (DPIPWE).

**locationmatters** 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 [www.dpipwe.tas.gov.au/locationmatters](http://www.dpipwe.tas.gov.au/locationmatters).

An electronic version of this publication can be found at:

[www.dpipwe.tas.gov.au/locationmatters](http://www.dpipwe.tas.gov.au/locationmatters)

The new edition of Arthur River 1:100 000 Series map - available for purchase from Service Tasmania shops, TASMAT resellers and agents, and online at [www.tasmap.tas.gov.au](http://www.tasmap.tas.gov.au)

# Message from Kate Kent...



## Modern

government and business practices are changing all the time, with managers often needing to make rapid yet

well-reasoned decisions in a complex and uncertain environment.

Over the last ten years, an understanding of the significance of accurate, real-time spatial information in making those decisions has extended from specialist niche users to enterprise management in government, business, academia and throughout the community.

Spatial information is now a key factor in many business support systems. Spatial and business information are increasingly integrated, visually represented as layers in digital maps and used in strategic analyses and processes like planning and development, risk analysis and marketing.

New users are often non-GIS professionals: they understand the value of the information and want to use it, but expect to see it delivered through non-technical applications that are readily accessible and simple to use.

As government service providers, our challenge is to influence and enable the process so that location becomes an integral part of decision-making. Until now, the technology and data necessary to support such a process has been expensive, difficult to use and hard to source.

With the launch of the new LIST in February of this year, we have made the first critical steps in providing users with a platform from which they can find and use spatial information simply, quickly and cost-effectively.

Our next challenge is to generate opportunities that spark new insights and approaches to issues that will encourage potential users to introduce 'where' into their strategic thinking and day-to-day business processes and improve overall business and community outcomes.

In this edition of locationmatters, we present some of the innovative ways in which spatial information is becoming embedded into everyday government frameworks for delivering, analysing and managing public information. I hope you enjoy reading it.

I am also very proud to note that the first Aboriginal and dual place names were recently gazetted and appear in the new 1:250 000 topographic map series and the Wellington Park Recreation Map. Look out for putalina, kunanyi, larapuna, kanamaluka, takayna and truwana as they appear in more official publications over time.

*Kate Kent  
General Manager  
Information and Land Services Division*

## CONTENTS

The new LIST	3
Planning Schemes Online	4
Maze Craze	4
Sense-T and Stats Matter	5
Tasmanian Online Plans	5
Future opportunities for ILS	6
Recent retirements	6
New CORS on King Island	7
News in brief	8

### Cover image

*The Rupertswood Maze at Hagley.  
See the story on page 4*



# the LIST

Integrated  
land information  
and services

## The award-winning

*Spatial Information Foundations Project* successfully culminated on 1 February 2014 with the public release of the vibrant new LIST website.

It's been a busy two years for staff in ILS – especially for members of the project team – but according to user feedback it's all been worth it, as the new LIST lives up to their expectations as an intuitive and flexible platform for the management and distribution of authoritative spatial information about Tasmania.

The success of the project has been widely acknowledged across many industry and government forums, and was recently awarded 'Best Practice in the Public Sector' by the Institute of Public Administration Australia (Tasmania). The judging panel concluded that the project demonstrated excellence, good project management, a very high level of innovation, extensive and 'well thought out' stakeholder engagement, and lasting benefits to the Tasmanian community.

[www.thelist.tas.gov.au](http://www.thelist.tas.gov.au)

*A single first point of contact for the discovery of a specialist range of publicly available government services and the delivery of authoritative information about property and land in Tasmania.*

The launch of the seamlessly integrated LIST interface puts Tasmania back at the national and international forefront in spatial technology, delivering a range of enhanced tools and services that can be used across government to strengthen the quality and effectiveness of strategic planning and development decisions, positively influence economic investment and ultimately enable the delivery of better, more targeted government services and improved outcomes for the Tasmanian community.

Through LIST, it's easy to discover location-based data and link this with other information to visualise what's happening, where and why it's happening, and visualise

the potential impact of events on people and infrastructure at a particular location. A range of instructional videos on the use of LIST is publicly available at [www.youtube.com/user/gsbclientserv](http://www.youtube.com/user/gsbclientserv).

**"LISTmap is one of the best mapping sites we've found in Australia. It is simple, powerful, rich, fast and beautifully presented. That's quite a combination."**

<http://www.whatsmyspatialiq.com/Australasia/TAZReport.htm>

To discuss demonstrations or training, please contact Client Services on (03) 6165 4444.

The new LIST homepage - [www.thelist.tas.gov.au](http://www.thelist.tas.gov.au)



Land Information System Tasmania

the LIST

Home



Help

Contact Us

### Key Services



Properties  
& Titles



LISTmap



Data &  
Services  
Directory



Tas Public  
Online Land  
Dealings



Planning  
Schemes  
Online



News &  
Information

### Quick Links

Spatial  
Foundations  
Project

Planning  
Schemes  
Online

Tasmanian  
Imagery  
Program

Location  
Matters

TASMAP

Frequently  
Asked  
Questions

# New LIST

underpins better planning

# Maze Craze

## In partnership

with ILS and other government organisations, the Tasmanian Planning Commission has made significant progress in delivering a streamlined and effective online planning system.

Planning reform is a high priority for government. This includes new planning schemes with consistent zones across the state, regional planning strategies, improved access to planning information and standard provisions for residential development.

The *Planning Schemes Online Project* was initiated by the Tasmanian Planning Commission to make Tasmania's planning schemes more accessible. The project involves transition from a cumbersome paper-based system to the much more efficient, web-based delivery of digital planning schemes and related information.

Over the past two years, ILS and Commission staff worked cooperatively to develop a user-friendly, highly cost-effective solution, made possible through the LIST redevelopment work undertaken as part of the *Spatial Information Foundations Project*.

## “Planning Schemes Online would not have been possible without theLIST”

Stewart Johnson - Director Strategy & Projects,  
Tasmanian Planning Commission

The newly implemented range of LIST web services provides a diverse range of options for external organisations to access, use and display property-based data and online maps within their own business applications. *Planning Schemes Online* is the first – and a very successful – example of how these whole-of-government services can be used in a public website.

A key element of *Planning Schemes Online* will be the ability for members of the public and specialist users to readily determine the zoning and planning rules that relate to a specific property.

By simply entering a property address, the planning enquiry module of the system uses new **LIST web services** to return a map showing the extent of the property, as well as the zoning and overlays specific to that parcel of land. Ultimately, this underpins simpler, speedier planning processes for property owners, developers and local government authorities. This service is currently available for Launceston and will be progressively rolled out during 2014 as Tasmania's new planning schemes are finalised.

In combination with authoritative property boundary information (cadastral data) held within LIST, the new planning zone and overlay datasets are set to become the authoritative source of planning scheme information into the future.

Andrew Tomes  
Manager, Spatial Data



Planning Zones on LISTMAP

**In March** this year Tasmania's first crop maze appeared at Rowan and Anna Clark's 'Rupertswood Farm' in Hagley.

Custom designed by specialist UK maze company, Mazescape, the unique thylacine maze was cut into five hectares of sorghum using a GPS unit mounted on a ride-on mower. GPS technology is normally used on farms for precision tractor guidance in sowing or spraying crops and applying fertiliser.

This was the Clarks' first venture into agricultural tourism and they see it as an exciting diversification from traditional farming, providing visitors with a fun day out and a chance to experience a little of life on a working farm.

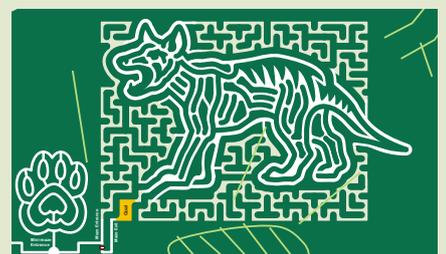
The Rupertswood Maze was open to the public for three weekends before the sorghum crop was harvested and baled for silage at the end of March.

Story courtesy Rowan and Anna Clark.

Aerial photograph of the maze replicated from the original design through modern GPS technology. Image courtesy of Martin Eadie Photography and Tas Aero Club.



The original maze design created by Mazescape (UK).



# Sense-T and Stats Matter

*linking systems for intelligent outcomes*

## Around the same time

as work on the *Spatial Information Foundations Project* commenced, two other important local – and intrinsically linked – initiatives were also instigated: Sense-T and Stats Matter.

**Sense-T** is creating the world's first economy-wide intelligent sensor network that integrates different data sources to build a digital view of Tasmania. Sense-T will give business, governments and communities the tools to make better decisions. It will be a shared resource for clever people to develop new approaches to economic, environmental and social sustainability. These can be tested in Tasmania and scaled elsewhere in the world.

Spatial information is a key attribute for sensing the physical environment of Tasmania: Sense-T is critically dependent on accurate, authoritative information

about the physical location of sensors and therefore the source of sensor data streams, as well as knowledge and information about the location of natural resources, farm infrastructure, property boundaries and property owners.

Sense-T is meshing together historical and real-time spatial data from its sensor networks and making this information available to the community through smart phone applications and online tools. This relies on direct machine-to-machine interaction and secure access to data made possible through the sophisticated new LIST web services implemented as part of the *Spatial Information Foundations Project*.

The key objective of the **Stats Matter** Strategy is to improve the Tasmanian Government's statistical capability, including a focus on the important role of spatial information in policy decisions.

The strategy identifies the need to improve spatial skills and expertise across government. This isn't just about technical know-how: it's about understanding what the data can be used for; how it can be used in combination with statistical data, and the myriad ways in which this information can be intelligently interpreted to inform and improve policy and service delivery.

The Australian Bureau of Statistics has developed a number of frameworks that demonstrate that a mix of systems, people and methods is necessary to leverage the combined value of statistical and spatial capability.

In 2014, ILS continues to work closely with the Sense-T and Stats Matter teams to extend linkages and share data and systems to turn raw data into meaningful intelligence for better decisions and widespread economic and community benefits.

# Ready, set, go!

## *a TOP job for Tasmanian Online Plans*

### The Land Titles Office

within ILS is in the final process to enable the online lodgement of digital images of survey plans, survey notes and other plan-related information. This is a critical first step towards the implementation of ePlan: a more sophisticated system for the electronic lodgement of survey information in Tasmania.

Scheduled for launch within the next few months, **Tasmanian Online Plans (TOP)** is a complete workflow system that will enable surveyors, solicitors, water and local government authorities to create, access, review and save digital images of survey information, featuring:

- More streamlined and efficient plan lodgement and processing procedures

- Email notification to the relevant clients as key events occur
- Early allocation of plan numbers
- Pre-population of many data fields, including owners' names, grantees, districts, parishes
- Progress tracking.

While the first stage release of **TOP** will be limited to the digital (.tiff) lodgement of sealed plans and non-sealed plans, the system will be expanded at a later date to include other plan types.

Until the acceptance of electronic signatures is finalised, paper copies of sealed plans will still need to be lodged with original seals and signatures.

**TOP** will be available for the online lodgement of survey information as a cost-free

subscription service accessible through **the LIST** by prior arrangement with the Recorder of Titles. Lodging parties will be notified when the new system is publicly available, and provided with information about the access application and approval process.

While it is expected that **TOP** will be widely adopted when it is fully developed, use of the service is not compulsory and paper plans will continue to be accepted by the Land Titles Office.

To find out more, please contact staff in the Plan Records section of the Land Titles Office - phone 03 6165 4444.

*Michael Young  
Land Titles Office*

# Future opportunities

*this way*

## After eight months

as Surveyor General of Tasmania, I find myself reflecting on the journey so far and the challenges that lie ahead. Career transition from private enterprise to the public sector has been pretty smooth, largely because of the professionalism of the ILS workforce and the support of colleagues.

Today's public sector is facing many challenges, from reduced funding and an aging workforce to keeping up with significant technological advances and shifting societal expectations. Mapping agencies worldwide are facing the same issues: we can no longer be content with the old, comfortable way of doing things. While there is still a niche market for specialised hard copy maps, consumers are increasingly demanding a greater range of highly accurate digital products, as well as the underlying spatial datasets.

The workflow and systems analysis that is currently being undertaken as part of ILS' strategic review and planning process reveals strong dependencies and close connections between the separate branches of the Division: survey plans for new subdivisions lodged for examination at the Land Titles Office are registered by the



Michael Giudici  
Surveyor General

Recorder of Titles, audited by the Office of the Surveyor General, find their way into property valuation databases, then reappear in various forms in LIST as spatial and textual information that is eventually queried or analysed by a diverse range of users across the community.

**Into this mix, add the implications of policies and ongoing debate around 'open data' and the concept of 'big data'. As we inevitably move in that direction, I am interested in the intersection between open (free or cheap) data and the resources needed to create, maintain and distribute that data.**

All tiers of government are affected by this debate. A recent article in the Australian Financial Review 'Big data bites agencies' focused on challenges confronting the Australian Bureau of Statistics:

"There seems to be only one solution: the ABS must collaborate with the commercial world ... In the meantime, the pressure is on the ABS and the numerous agencies like it to develop a culture which is more responsive to the needs of its clients."

Looking towards the future, I am confident that we can leverage the recommendations from our internal review and become agile enough to lead the way and meet the myriad of challenges that lie ahead. Are we up for it? I believe we are.

# Maps off

*to long-serving staff*

## The end of 2013

saw the retirement of three of ILS' longest serving staff members: Spencer Chung, Michael Harding and Robert Higgins.

With over 120 combined years of accumulated experience, Spencer, Michael and Robert all started work in the survey drafting and mapping sections of the former Lands Department back in the 1970s.

Highly regarded for his excellent cartographic skills, Spencer spent many years working calmly behind the scenes in producing some of TASMAR's best and most well-used maps.

As Manager of the Geodata Services Branch, Mike Harding's final responsibility was seeing the new LIST come to life through expert management of the *Spatial Information Foundations Project*.

Robert Higgins was the driving force behind the preservation and archiving of many significant historical records, including those highlighted in the 'Early Treasures' exhibition on display in the Service Tasmania shop on the ground floor of the Lands Building in Hobart.

Spencer Chung (centre wearing red hat) at the 1985 Mapping Division Christmas dinner.



Michael Harding (front wearing blue jacket) and Robert Higgins (standing wearing purple shirt) at the 1973 Drafting Office Christmas party.



# Find what you need!

Land information  
**online**



## the List...

Providing **all** the information  
about **your property**

[www.thelist.tas.gov.au](http://www.thelist.tas.gov.au)



### Client Services contact details

Normal operating hours for all client enquiries are

**9.00am – 5.00pm Monday to Friday**

#### LIST Helpdesk

E-mail [listhelp@dpipwe.tas.gov.au](mailto:listhelp@dpipwe.tas.gov.au)

Phone (03) 6165 4444

Fax (03) 6233 6568

Web via the client request form

#### TASMAP

E-mail [tasmap@dpipwe.tas.gov.au](mailto:tasmap@dpipwe.tas.gov.au)

Phone (03) 6165 4444

Fax (03) 6233 6568

Order online at [www.tasmap.tas.gov.au](http://www.tasmap.tas.gov.au)

#### Spatial Data / Agreements / Copyright

Email [geodata.clientservices@dpipwe.tas.gov.au](mailto:geodata.clientservices@dpipwe.tas.gov.au)

Phone (03) 6165 4444

Fax (03) 6233 6568



# All for a good CORS on King Island

## Over the past year

ILS worked in collaboration with AuScope and Geoscience Australia to construct a Continuously Operating Reference Station (CORS) on King Island, which complements a network of 121 installations across Australia.

This high-precision Global Navigation Satellite System (GNSS) antenna-receiver accurately calculates positions to the millimetre, greatly enhancing and assisting the work of surveyors, farmers, engineers and researchers.

ILS General Manager, Kate Kent, said the station continuously logs position data.

"Like others in the national network, including stations previously installed in Tasmania under the AuScope project at Liawenee, Triabunna and Lady Barren, the King Island CORS generates the information needed by high-precision GNSS receivers for error corrections, as well as calculating minute movements in the earth's crust," Ms Kent said.

"Information from the CORS network has a wide application, including

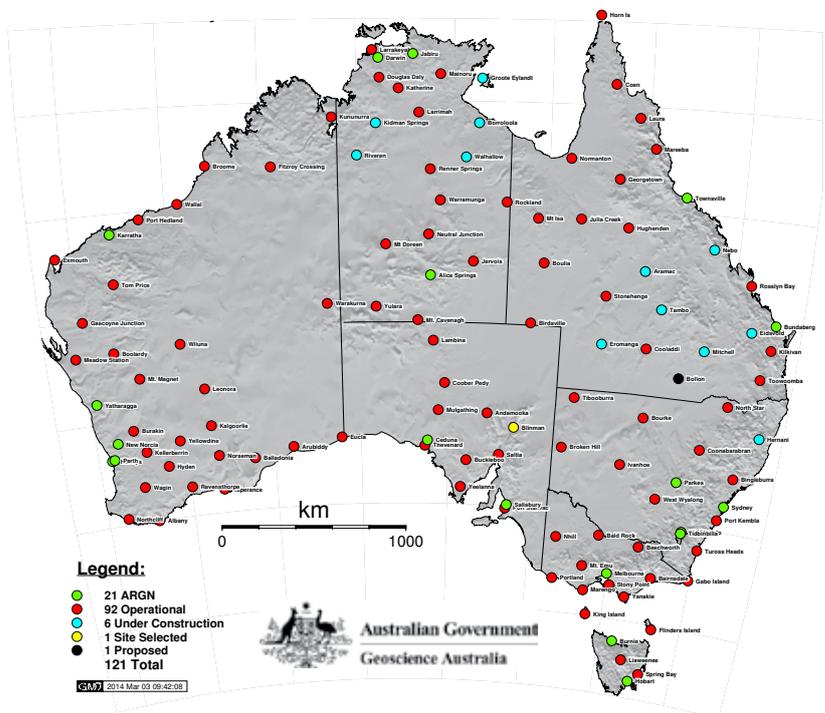
earthquake monitoring and understanding and calculating sea level change and atmospheric modelling. It is also invaluable in providing real time guidance for heavy engineering and agricultural machinery."

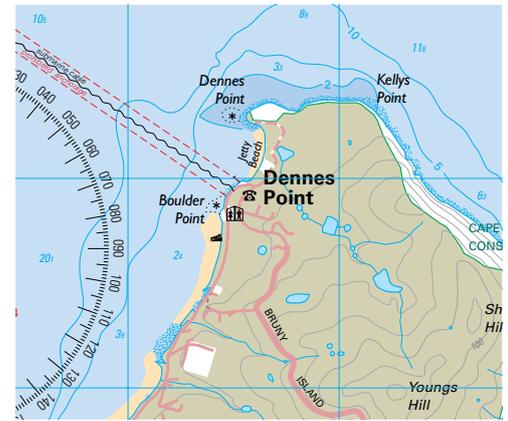
Data from the Station is transmitted to Geoscience Australia in Canberra using an ordinary Next G wireless modem.

Ms Kent said that AuScope, in partnership with Geoscience Australia, had provided funding of around \$75,000 for construction of the King Island CORS as part of AuScope's Australian Geophysical Observing System (AGOS), which is funded from a Commonwealth infrastructure program: the Education Investment Fund (EIF).

Now that construction is complete, ownership and the responsibility for ongoing operation of the King Island CORS have been transferred to the Tasmanian Government.

*Scott Strong  
Program Manager Geodetic System*





## Client Services update

ILS recently introduced a central number for all public telephone enquiries - (03) 6165 4444.

This number will eventually replace the published contact numbers for the Land Titles Office, Offices of the Valuer-General and Surveyor-General, LIST and TASMAR. This new service has been initiated as part of the ILS Strategic Planning Project and is the first step in trialling an integrated approach to client services.

It is expected that an integrated system will provide a more holistic, professional service, regardless of the type of enquiry. This should improve client satisfaction by reducing the number of calls being transferred around the Division and provide a faster, more efficient service for clients.

## ILS Strategic Planning Project

In 2013, ILS initiated a Strategic Planning Project to respond to stakeholder feedback that identified the need for the Division to be more responsive to internal and external drivers and the changing needs of our clients. The articulated outcome of the project is that "divisional staff, structures and systems support the effective and efficient management and delivery of location-based information and services on a statewide basis".

As part of that project, all operational elements are being reviewed including skills, succession planning, marketing and communication, system and data interfaces, service delivery and organisational structure. The project is expected to be completed by mid-2014.

## Tasmanian Imagery Program update

Remotely sensed imagery and data acquisition programmed for capture over the 2013-14 season is nearing completion. The current program includes aerial imagery for the Launceston, George Town and Meander Valley municipalities, as well as LiDAR capture for coastal areas and the Brighton and Meander Valley municipalities.

This initial program has already demonstrated considerable savings in acquisition costs for participants through the coordination of project areas and cost sharing. ILS is managing the program through a panel of pre-approved contractors, which ensures streamlined acquisition and consistency in capture standards.

When complete, new imagery will be made available to the community through LISTmap.

For more information about the Tasmanian Imagery Program, contact Malcolm Crawford on (03) 6165 4131.

## Cadastral upgrade work

A number of projects have recently been undertaken to improve the accuracy of the cadastral parcels dataset. To date, over 35% of Tasmanian parcels have been spatially upgraded to sub-metre accuracy. A further program of work has been initiated to integrate those areas of the cadastre upgraded by two northern councils into the State Cadastre. After completion of this work, those councils will adopt the State version as the 'best data available', resulting in further savings for local government through elimination of the need to duplicate and maintain their own municipal cadastral dataset in-house.

Above: detail of a page in the new *Cruising Southern Tasmania*.

## New TASMAR products

Recently released map products are now available for purchase online at [www.tasmap.tas.gov.au](http://www.tasmap.tas.gov.au) or from Service Tasmania shops, TASMAR resellers and agents.

### 1:100 000 Topographic Maps

- Georges Bay
- Arthur River



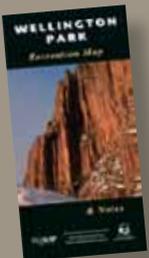
### 1:250 000 Topographic Maps

- North West
- North East
- South East
- South West



### National Park and Recreation Maps

- Cradle Day Walk Map
- Highland Lakes Map
- Freycinet National Park Map
- Walls Of Jerusalem National Park Map
- Cradle Mountain Lake St Clair National Park Map
- Wellington Park Recreation Map
- Maria Island National Park Map



### Other Products

- Cruising Southern Tasmania
- Visitors Map



Now available online at  
[www.tasmap.tas.gov.au](http://www.tasmap.tas.gov.au)

## Direct enquiries to

Manager - Client Services  
Information and Land Services  
GPO Box 44, Hobart, Tas 7001

T: (03) 6165 4444 F: (03) 6233 6568  
E: [geodata.clientservices@dipwve.tas.gov.au](mailto:geodata.clientservices@dipwve.tas.gov.au)  
W: [www.dipwve.tas.gov.au/locationmatters](http://www.dipwve.tas.gov.au/locationmatters)

BL10851