Taitonga South Island Orienteering Champs 2023

Bulletin 2

Version 24/01/2023

1. Your place in the sun

Welcome to Taitonga SIOC2023

Nelson Orienteering Club invites all orienteers to celebrate high quality summer orienteering in the Top of the South Island of New Zealand for the 2023 Taitonga South Island Orienteering Championships, the weekend of 28 & 29 January 2023! We look forward to welcoming fellow orienteers from the South and the North Island of New Zealand, and old and new friends from overseas!

To all participants, we hope you enjoy the challenging courses, the competition, and the camaraderie throughout the weekend.

Your place in the sun!
SIOC2023 Event Team

Information

The Event Website is the best place to be for everything you need to know about Taitonga SIOC2023, including Bulletin 2 and Start Lists. Last minute changes will be added to the website and the Nelson Orienteering Club FB page.

Event Team

Thank You

An event this size can only take place due to countless ‘helping hands’. First and foremost, many thanks and acknowledgements are due all around for those Nelson Club volunteers contributing a great deal of time to plan, control and organise these events, and make each event ‘tick’.
We’d also like to thank the volunteers from orienteering clubs near and far, helping out with equipment, advice and additional ‘hands’.

Supporters and sponsors

Events this size can not take part without many landowners supporting us by allowing access. We are very grateful for the use of the school grounds of Nayland College, Nayland Primary School and Broadgreen Intermediate, as well as the use of the gym at Nayland College.

Likewise, our Middle and Long can only go ahead with the support and advice from Tasman District Council and the Department of Conversation.

While in the Tasman area...

The Nelson region is famous for its year-round sunshine, national parks, and a large creative community of working artists. Expecting many orienteers from outside the Nelson region, Nelson Orienteering Club members were asked about their recommendations for those of you with some time to spare before, during or after the event.

As can be expected from a highly diverse group of people, the advice was diversified, with some clear winners. While participating in SIOC2023, why not add a few days before or after?

- Nelson is surrounded by not one, not two, but three National Parks right on its doorstep: Abel Tasman, Nelson Lakes and Kahurangi. The Cobb region as part of Kahurangi comes recommended, since it is easily accessible for day and overnight trips, and blissfully lacking in crowds…
- If you like to put a bit of a challenge into your walk or run, why not visit The Grampians in the centre of Nelson? In Amelia Horne's words: "There's plenty of tracks to run, in a variety of vegetation too; plus I can never get sick of the view over Tasman Bay!" In fact, just walking up almost any of the hills surrounding Nelson, Stoke and Richmond, and you'll be alone and surrounded by birdsong within minutes. A bit further afield is walking up Ben Nevis in Mt Richmond Forest Park, climbing to the top of Mt Arthur, or the Mt Robert loop walk in Nelson Lakes.
- Top orienteering location for most Nelsonians is Canaan Downs near the top of Takaka Hill, with its fairy-tale invoking ancient beech forests, eerie rock formations, sinkholes and rolling hills. Nelson Lakes, part of SIOC2023, is a close second from an orienteering point of view. NOC

president Matt Ogden describes Canaan Downs, incorporated in last year's National Champs as "pure New Zealand orienteering, the spiritual epicentre for the sport." NOC is planning a Canaan Downs event later this year, but if you can't wait that long, the terrain is managed by DOC and o-maps are available.

- A bit further off the beaten track, and highly recommended, is to walk the sun-drenched sands of tranquil Golden Bay or head inland to Takaka and see the impossibly clear waters of New Zealand's largest freshwater springs at Te Waikoropupū Springs. Walk the recently restored multi-day Abel Tasman track or, for a different perspective, take a sea kayaking tour around the coast and see a seal colony and little blue penguins bobbing in the water.
- Enjoying the water: swimming in one of the many rivers, especially the Motueka or Takaka River. On a hot day jumping off the end of a wharf at Lake Rotoiti, Nelson Lakes. If you are into sea swimming, Rabbit Island, Tahunanui Beach, the Nelson Yacht club and Haulashore Island in the Nelson Harbour come recommended. And who doesn't love the golden beaches of Kaiteriteri?
- Taste your way around the region by bicycle on Tasman's Great Taste Trail or get your daily dose of adrenaline with a visit to one of the region's world-class mountain bike parks, with for example a stunner of a ride in Kaiteriteri.
- With one of the largest numbers of working artists and galleries in New Zealand, you'll find a wide range of craftspeople living in the region. Visit their studios, explore the famous Nelson Saturday morning craft market, taste the delicious locally made artisan products and find something extraordinary to take home with you.
- Overall, Simon and Garfunkel might have the best lyrics to describe our amazing outdoor playground: "Slow down, you move too fast, gotta make the morning last just, kicking down the cobblestones, looking for fun and feelin groovy…" In Michael Croxford's words, sharing the same sentiment: "Slow down. Take your time. Enjoy Te Tau Ihu, the top of the South Island."

For more information, and the latest information regarding potentially damaged tracks by the devastating August 2022 storm, please visit one of the local visitor information centres or the Department of Conservation (DOC) Nelson page.

Local food and drinks

Interestingly, volunteers from NOC also have a huge range of recommended places to eat or drink for our visitors – a reflection on the variety of really good places to relax in the Tasman area, home of locally grown produce, freshly caught seafood and many wineries.

One overriding conclusion: in the Tasman area, we take our coffee (with or without an edible treat on the side) very seriously!

In Nelson and surrounding areas:

- The Beach Café at Tahunanui Beach, "for its location and delectable treats" according to Dale McDonald;
- Tozzetti Café and Bakery where, according to Michael Croxford "…There's something about the food cabinet where the portions come out larger than they look." He adds: "For coffee, it's hands down Sublime Coffee, although Tasman Store and Kush are close behind";
- Le Posh Patisserie, recommended by Amelia Horne;
- Penguino Ice Cream Café, unique for Nelson, started by Jan Jager's sister and her partner back in 1995;
- Matt Ogden describes The Baker's Coffee Shop as having "amazing coffee, unreal pastries";
- Freehouse in Nelson central is the go-to spot for craft beer lovers, according to Daniel Penney;
- Eddyline Brewery & Pizzeria, Richmond, recommended by Richard Dunn;
- According to Jane Orbell, when in need of a caffeine fix, visit Coffee Society, next to Caltex Richmond, "for the best coffee in Richmond".On your way to Nelson Lakes and in need of sustenance? Jane Lambert strongly recommends The Bakery in Wakefield for "the best pies and slices!"

Slightly further away, on the way to Canaan Downs and Golden Bay, there are additional places to visit according to the locals:

- "Mapua wharf is another awesome spot to go to if you're looking for a lunch or dinner spot. Heaps of food/drink places choose from and a really nice environment" according to Daniel Penney;
- Tasman General Store is mentioned several times by Nelson orienteering club members, for great coffee, real fruit ice creams and yummy pies;
- Annemarie Hogenbirk's favourite location since her very first visit to New Zealand in 1993 has been The Jester House, unfortunately currently only open on Fridays;
- On another note, anybody interested in pizza, please hit up Riley Croxford, *the* man to talk to about pizza recommendations in the Nelson / Tasman area, including Dominos in Motueka;
- Diana Worthy strongly recommends Riwaka's Ginger Dynamite - an understated coffee shop with amazing date scones and homemade pies, which sell out every day - and Real Fruit Ice creams right next door.

Contact us

The Taitonga South Island Orienteering Champs 2023 are organised by the volunteers and supporters of Nelson Orienteering Club.
For general queries, please contact us via email, using sioc2023@gmail.com. Your query will receive a reply within 24 hours up to the day before the start of the event.

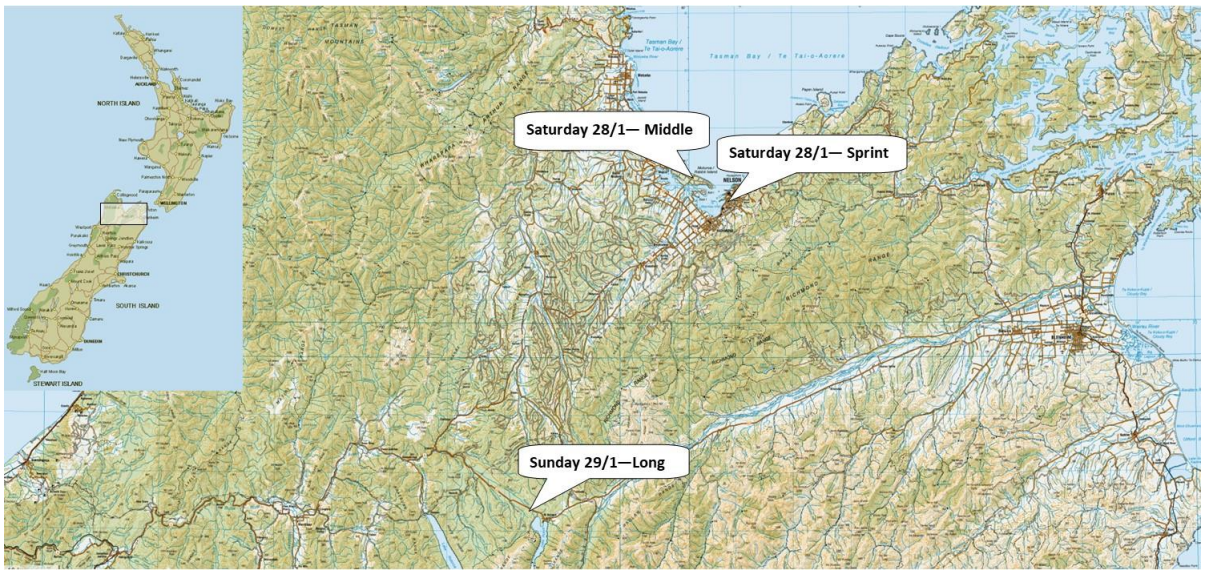
Event coordinator Annemarie Hogenbirk can be reached on her mobile phone, ideally by text: +64 (0)21 058 5252.

2. General information

Programme

The programme consists of three A-grade level orienteering events. The SportIdent (SI) punching system will be used in all events with Si Air+ enabled. Competitors may use their own or hire from the SIOC2023 organisation via the entry process.

	Date	Location	Terrain	Setter	Controller	Start time
Middle	Sat 28/1	Moturoa West / Rabbit Island West	Forested dunes	Amelia Horne	Matt Ogden	11 AM
Sprint	Sat 28/1	Nayland College, Stoke, Nelson	School campus	Daniel Penney	Calum Coombs	6 PM
Long	Sun 29/1	Teetotal / West Bay, St. Arnaud, Nelson Lakes	Alluvial plain with moraine features	Riley Croxford	Michael Croxford	11 AM



Embargoed areas

The following three areas are embargoed:

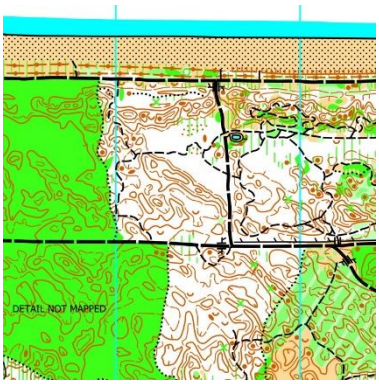
- Middle: no access is allowed to the Western end of Moturoa / Rabbit Island until Saturday 28/01/2023 start of the event.
- Sprint: access is allowed in the area and surrounding streets containing Nayland College, Broadgreen Intermediate and Nayland Primary School until Friday 27/01/2023. However, the use of maps, and route choice testing during the term of the embargo is not allowed. Access into the Sprint area is forbidden for all competitors and associates aside from the actual competition is not allowed Saturday 2/01/2023 until the start of the competition.

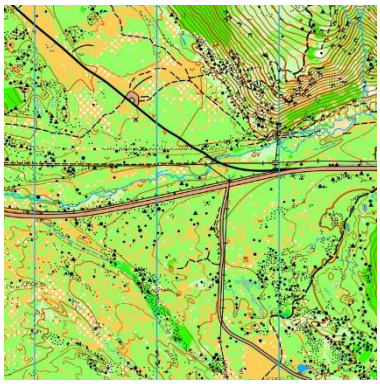
- Long: no access is allowed to the West Bay and Teetotal areas of Nelson Lakes until Sunday 29/01/2023 start of the event.

Anyone found breaking the embargoes published below after publication or intentionally trying to gain an unfair advantage will be disqualified from competing or coaching at the Taitonga South Island Orienteering Champs 2023. Detailed information on each embargoed area can be found on the event website.

Maps of embargoed areas

Please find below a fragment colour copy of the most recent version of previous orienteering maps of the three areas used during Taitonga SIOC 2023. The complete maps can be found and downloaded from the event website.





Responsibility

Nelson Orienteering Club's volunteers aim to deliver SIOC2023 in a safe manner. Key guideline is the safety of our volunteers, competitors, and supporters. Please operate within your own comfort zone, do not take unnecessary risks, and take responsibility for your own and others' safety.

Directions and parking

Each event will be signposted with square orange/white orienteering signs and a directional arrow and there are required parking areas. Please read the specific sections per event, **especially for the urban Sprint event**.

Event Centre / arena

Each race will have an Event Centre or arena, which will incorporate Registration, Finish, Download and the unofficial O-Lynx results display. Registration is where competitors pick up their pre-hired SIAC and/or compass. There are no race bibs. A copy of the start list and Bulletin 2 is available at Registration, and it is also the place for any Lost & Found property.

There will be no tent space available for competitors, so participants are encouraged to bring their own tents.
Parking differs per event: please make sure you are familiar with each event's parking set-up, especially for the Sprint and the *very limited parking space* for the Long. Please consider car-pooling.
Mobile phone coverage is available at all three arenas.

Water
There will be no water at any Event Centre: please bring your own, and bring plenty. There is no water on *any* of the courses, with the exception of the Long (course 1 – 6 only) on Sunday.

Clothing
Full body cover is recommended for the non-urban events, to protect arms and legs from vegetation.

Smoking
Open fires or smoking (including vaping) is prohibited during all three events.

Dogs
Dogs are not allowed at any of the event sites during the Taitonga South Island Orienteering Champs.

Waste
Taitonga SIOC2023 aims to be eco-friendly, and to leave each site at least as clean as you found it, tidier no problem. This event will operate under a 'Pack-in, Pack-out' policy, so if you carry it into the venue, please carry it out again.

First aid
An external medical service provider will not be available during the Middle and Sprint events on Saturday 28/1/2023. We ask that you bring your own first aid kit and tend to minor injuries such as cuts and grazes yourself. A first aid kit is also available at Registration.
An external medical service provider will be available at the Long on Sunday, located at/near the Event centre.
In a medical situation where you need professional help:

- For a medical *emergency*: call 111 and ask for an 'ambulance', or go to the Nelson Hospital Emergency Department on 98 Waimea Road, Nelson. Phone number: (03) 5468881
- For urgent medical attention, but *not* an emergency: go to the 'Medical & Injury Centre, 98 Waimea Road, Nelson, next to Nelson Hospital Emergency Department, Nelson. Phone number: (03) 546 1800.

Whistles
It is strongly encouraged to carry a whistle for both non-urban events. The recognised distress signal is a series of six short blasts on a whistle. Pause and listen for reply and repeat to allow them to locate you. Please only use your whistle in an emergency. Competitors are expected to render assistance to anyone who is injured and requires help. Please make event officials aware of the issue, so they can organise the appropriate response, including adjusting your overall time.

Weather
The weather at this time of the year can vary, with temperatures between 16 and 26 degrees Celsius. New Zealand weather is quite variable and prone to rapid changes, especially in the mountainous areas. So be prepared with both sun hats, sunscreen and extra water if it turns out to be a lovely Nelson summer day, but also with warmer clothing.

Evacuation
Competitors are responsible for their own safety. Evacuation could be required in a number of scenarios, including fire or strong wind. Use common sense and take action if you smell smoke or experience an earthquake. Make sure you are safe, which could include abandoning your course. Help any other competitors to evacuate if that is safe.
The evacuation direction is indicated per event.

If safe, evacuate to the Event centre, inform organisers, and download your SPORTident. If you evacuate to somewhere else for safety reasons, contact organisers. Call 111 if there is a fire or you require emergency assistance.

Photos and video

During the event, photos and videos may be taken and published on the Nelson Orienteering Club Facebook page and this event website. We encourage anybody who would like to share their photos for publishing on the Nelson Orienteering Club Facebook page, to please contact the organisers via email.

Orienteering gear for sale

During the weekend, you can buy gear from MAPsport Shop or Grassy Knoll.

- MAPsport continues to support charities working in Ukraine with every Moscow compass sold, read more at www.mapsport.co.nz.
- Grassy Knoll will have a small selection of gear (compasses, control description holders and gaiters) available at the event. For our full range please order online www.grassyknoll.co.nz.

3. Competition information

Fair play
All competitors shall behave with fairness and honesty. Attempts to gain any information related to the courses, beyond that provided by the organiser, is prohibited before and during the competition. A competitor who breaks any rule, or benefits from the breaking of any rule, may be disqualified.
As maps will not be collected at the finish on any day, we ask you to please not show or discuss your map with any competitors (on any course) who have yet to run.

Maps
Competition maps are digitally printed on synthetic waterproof paper. The maps are produced using the current International Specification for Orienteering Maps (ISOM).

Control descriptions
For all classes, descriptions will be printed on the front of the map and be available loose at the start. For A-classes, only IOF symbol descriptions will be used. For those on orange difficulty courses, both IOF symbols and English written descriptions will be available. For classes on yellow and white courses, only English descriptions are provided.

Map legends
Legends are not printed on the map. You can download a legend / description of orienteering mapping symbols, both for Sprint events and the longer disciplines here. This is especially recommended for participants new to orienteering maps.

Controls
Each control is equipped with:

- one electronic punching station (SI unit). Some control sites with high traffic (e.g. Finish) may have two SI units;
- one backup needle punching device, only to be used if SI unit fails;
- a white / orange control flag.

The control code is located on top of the SI unit, or on the tag on the side. There are many controls in the competition terrain, so it is important to check the control code when you punch.
Radio controls will be used at all three events at the Finish. This makes no difference for competitors.

Electronic timing
During SIOC2023, the SportIdent (SI) electronic punching system will be used, where the orienteer carries an SI Card (also known as 'dibber') on their finger. Each visited station at each control writes the time of the visit to the card. The control times are read out after the finish line to determine total race time, split times, and whether all controls were visited in the correct order.

In addition, the SI Air+ contactless punching system is enabled, allowing orienteers to take advantage of the SportIdent Active Card or SIAC. Rather than inserting the SI card into the control station, a punch is recorded when the orienteer brings their card within a short distance (roughly 50cm) of the station. The station will beep and flash in the usual way, and the SIAC beeps and flashes to confirm the punch. SI Air+ also allows for run-through finish gates, where instead of stopping to punch a finish control, orienteers can pass through the gate at full speed and still have their finish time recorded.

The event run with SIAC is fully compatible with older SI cards - the same control stations are used and orienteers can insert their card into the stations to punch as usual.

Electronic punching

Please read the following instructions carefully:

- Both types of cards must be *cleared* and *checked* before each race at the stations located in front of the start area - this is the responsibility of each competitor. Use the 'clear' box first, to remove data from your chip, and then punch the 'check' box. The *check* box also turns on SIAC.
- At each control, either insert your SI-card into the control unit until the unit beeps and flashes, or pass your SIAC close to the control box and check that the SIAC beeps and flashes.
- If you punch an incorrect control, ignore it and continue to the correct control; the extra punch will be disregarded by the results software.
- If the SIAC stops working in Air mode (no beep or flash), it can still be used like a regular SI card and inserted to punch each station.
- If an SI unit does not function (there is no beep and no flash) then use the pin punch attached to the control stand and punch on your map in one of the spaces provided. If you have pin punched any controls on your map you must hand the map in at the Download before leaving the Finish area and explain what you have done.
- A competitor with a control punch missing or unidentifiable will not receive a result, unless it can be established that the punch missing or unidentifiable is not the competitor's fault. If a competitor punches *too fast* and fails to receive the *feedback signals*, the card will not contain the punch and the competitor will not receive an overall time, even though the control unit may have recorded the competitor's card number as an error punch. Note: SIAC does not record a punch in the control unit.
- If you have hired a SIAC for your races, please return it to Registration after your final download. Lost or broken SIACs will incur a charge of $90 to cover the cost of a replacement.

Hired SI cards

Participants who have hired a SIAC can pick these up at Registration before their first event. Please make sure you arrive at Registration with plenty of time to spare, since it might be busy, especially before the first event.
Please double-check you have been given the correct SIAC with your number.
After your last event, please return the SIAC to Registration, where you sign the hire-register to confirm you have returned your SIAC. Lost or broken hired SIAC will incur a charge of $90 to cover the cost of a replacement.

Start

The start procedure will be the same for every event. Each competitor is responsible for following the marked route to the start area. The competition area is out of bounds until your start time.
The pre-start area has clear, check and SIAC battery check boxes in it. In the Start area, competitors will pass through three consecutive starting pens, and remain one minute in each one.
Each competitor is responsible for following the correct marked route to their Start area. The competition area is out of bounds until your start time. It is the competitor's responsibility to be there on time. Report to the start when the clock shows your start time: the clock is set to three minutes before race time.

Start time	Description
-3 minutes	Volunteer officials will check your SI card, name and start time are correct. Each competitor punches the safety check box presented.
-2 minutes	Control description sheets are available for runners to pick up (optional). The control descriptions are also printed on the map.
-1 minute	Competitors wait beside the map box for their course. The five-second start-countdown will be indicated by a series of beeps. On the first (short) beep, competitors should pick up their maps and check it is for their course. Each competitor is responsible for taking the correct map.
	On the long (final) beep, competitors start their run, following the marked route to the start triangle which is indicated by a control with a flag (but without an SI punching unit) in the terrain and a triangle on the competition map. All competitors must pass within 2 metres of the start triangle.

Course splits

Some courses are split into (a), (b) and/or (c) versions. All versions of a course are identical except that each version is provided in a different scale depending on your class. All classes running a certain course have the same Control Descriptions. The participant is responsible for picking up the correct scale map for their class.

Late Start

Competitors who arrive at the start late must report to the late start lane where an official will accompany him/her and the competitor will start the race when told to do so, using a punch-start. The results of competitors who start late due to their own fault will be based on their original start time, without time compensation. Competitors who are late for their start time through no fault of their own will be timed from their new start time, determined by the event controller.

Event volunteers who are unable to make their allocated start time can identify themselves when arriving at the start. This competitor starts their race when told to do so by punching a start box, overwriting the previously allocated start time.

Shadowing

Shadowing by parents is not permitted in any championship classes, including M/W10A. If parents wish to shadow or directly assist their younger children, the children must have been entered in the non-competitive M/W10N (Novice) class. Although there are allocated times for MW10N, competitors can start whenever their shadow is ready. Caregivers shadowing MW10N must either be not competing or have already run their course. These young participants start their race when told to do so by punching a start box, overwriting the previously allocated start time.

Finish
The Finish is in the Event Centre for all three events. All competitors, including those competitors who do not complete the whole course, are required to pass and punch one of the Finish control boxes at the Finish or, when using SIAC, pass your SIAC over one with the card automatically turned off by the Finish control. Each competitor must download their SI-card at one of the manned download stations. This is also where potential downloading problems will be handled.
Competitors who do not download will be considered as missing, resulting in a search for this competitor. If you decide not to finish your race, please come back to the download area, so we know you are back safe and sound.

Results
Provisional live results will be displayed on the O-Lynx results display at the Arena. Official results will be available on the results page of the event website. Results on winsplits will be posted as soon as possible after each event.
Route Gadget and Maps for each event will be published as soon as possible.

Prize giving
There is no prize giving, with the exception of certificates for participants in the categories MW10N, W10, M10, W12A and M12A. These will be presented as soon as all participants in these categories have finished.

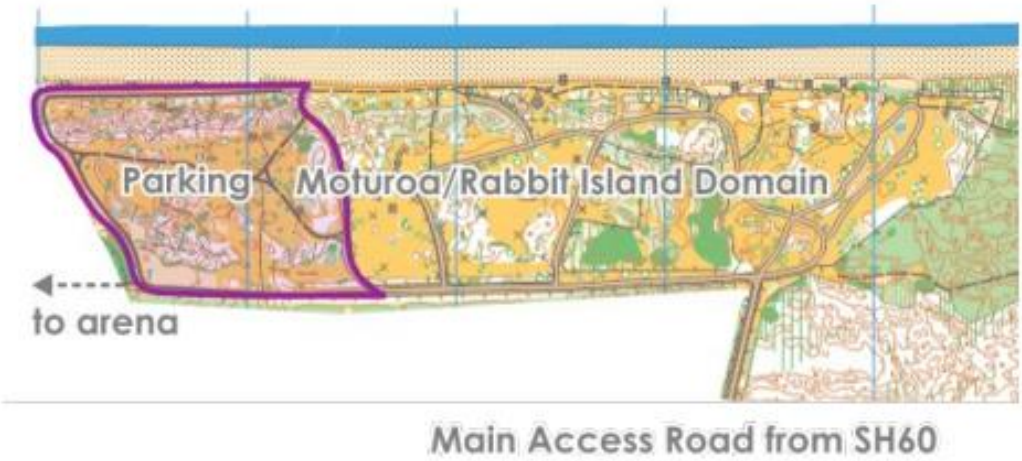
Results queries
If there is anything a competitor wishes to clarify about the download, or if a control failed to beep and flash, was missing, or any other problem occurred on the course, please proceed to the download station. Officials there, in consultation with the Controller, will assist to resolve the issue as soon as is practical. There is no punch enquiry fee.

Complaints and protests
Complaints and protests will be handled in accordance with the ONZ rules. Before a protest is made, you are entitled to complain to the controller about an infringement of the rules or organiser's directions. A complaint is made in writing on a form available from Registration, and handed to the controller as soon as possible, but within 60 minutes of the affected competitor finishing. A complaint is adjudicated by the controller. The controller's decision on a complaint shall be advised to the complainant, and displayed on the results board as soon as possible, within no more than 60 minutes of the complaint having been received. If the complainant is not satisfied with the decision, a protest may be made against the controller's decision.

Jury members
The ONZ technical Committee will appoint a jury of three ONZ A-grade controllers in advance of the event in accordance with the ONZ Rule 29.4. Their names will be published online when available, closer to the event.

4. Saturday morning - ‘Middle’

Date	28 January 2023 AM
Event status	A-level
Event Centre location	Moturoa Amphitheatre
Event Centre - GPS Coordinates	-41.263093, 173.138175
Planner	Amelia Horne
Controller(s)	Matt Ogden
Map	Moturoa West
Map surveyed	Michael Croxford (2022, minor updates 2023)
Mapper	Michael Croxford
Map scale(s)	1:10,000, 1:7,500, 1:5,000
Contour interval	2.5 m
Map flip	No
Registration opens	10 AM
First start	11 AM
Course closure	2:30 PM



Embargoed area

The area west of Parking is strictly Out of Bounds except for the access route to the Arena. Out of bounds areas in the vicinity of the arena and competition area will be marked on the ground.

Directions
The main access road to Moturoa/Rabbit Island leaves SH60 about 7km north from its junction with SH6 in Richmond. Moturoa/Rabbit Island Domain, where the parking is located, is approximately 15mins / 14km from Richmond & 35mins / 30km from Motueka.

Parking
Parking will be at the west end of the Rabbit Island Domain as designated. The route between the parking and the arena crosses a public road. Please take care when crossing.

Out of bounds areas
The area west of Parking is strictly Out of Bounds except for the access route to the Arena. Out of bounds areas in the vicinity of the arena and competition area will be marked on the ground.

Event centre
The arena is in a natural amphitheatre in the forest, 5-10 minutes easy walk from the parking. Toilets will be located on forest roads between the parking and the arena. The Start and Finish are in the arena

Warm-up Area
Warm-up is between the Arena and Parking.

Terrain
The terrain is varied sand dune pine forest, with trees in various stages of growth. Contour detail is intricate, with features becoming more subtle as you move inland from the main beach. Courses keep to areas of predominantly good visibility while runnability varies. It ranges from poor to good, with differing levels of rotting logs and other low undergrowth. The longer courses will pass through small areas of poor runnability. This undergrowth combined with a few patches of very low level blackberry raise the recommendation for full leg cover.

Specific map symbols
There are areas of dense young pines which have not been mapped as they are not useable for orienteering. The courses avoid these areas and will not affect competitors, but they are still present on the map. The text “DETAIL NOT MAPPED” is used on the map in these areas.

Hazards
All courses cross MTB tracks with the yellow and white in particular making use of the tracks as part of their courses. These are designated MTB tracks so please give way to MTBs.
Signage will be installed at entry points to the tracks to warn of the event taking place.
Safety bearing is north to the beach. Full body cover is recommended.

Courses

Course	Courses		Distance (km)	Map scale	Climb (m)	Diffi-culty	Controls
	Men	Women					
1	M21E, M20E		5.5	1:10,000	60	Red	18
2a	M21A	W21E, W20E	4.6	1:10,000	50	Red	17
2b	M40A		4.6	1:7,500	50	Red	17
3a	M18A, M20A		4.5	1:10,000	50	Red	15
3b	M50A		4.5	1:7,500	50	Red	15
4a		W21A	4.2	1:10,000	50	Red	15
4b		W40A	4.2	1:7,500	50	Red	15
5a	M16A	W18A, W20A	4.1	1:10,000	40	Red	15
5b		W50A	4.1	1:7,500	40	Red	15
6a		W16A	3.5	1:10,000	35	Red	12
6b	M60A		3.5	1:5,000	35	Red	12
7	M70A	W60A	3.4	1:5,000	30	Red	13
	Rec Red Middle						
8	M80A+	W70A, W80A+	2.0	1:5,000	20	Red	10
	Rec Red Short						
9	M14A	W14A	3.7	1:10,000	40	Orange	13
10	Rec Orange		3.7	1:10,000	40	Orange	13
11	M12A	W12A	2.4	1:7,500	30	Yellow	11
	Rec Yellow						
12	M10	W10	2.1	1:7,500	20	White	13

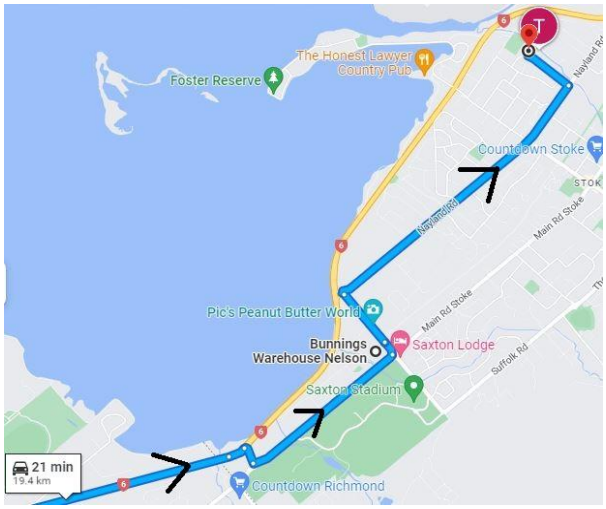
Course	Courses		Distance (km)	Map scale	Climb (m)	Diffi-culty	Controls
	Men	Women					
	MW10N, Rec White						

5. Saturday evening - ‘Sprint’

Date	28 January 2023
Event status	A-level
Event Centre location	Nayland College Gym
Event centre - GPS Coordinates	-41.303851, 173.230980
Planner	Daniel Penney
Controller	Calum Coombs
Map	Nayland Schools
Map surveyed	Michael Croxford (November 2022, minor updates 2023)
Mapper	Michael Croxford
Map scale(s)	1:3000 and 1:2000
Contour interval	2m
Map flip	Yes - M21E M20E W21E W20E M16A M18A M20A M21A M40A M50A
Registration opens	5 PM
First start	6 PM
Course closure	8 PM

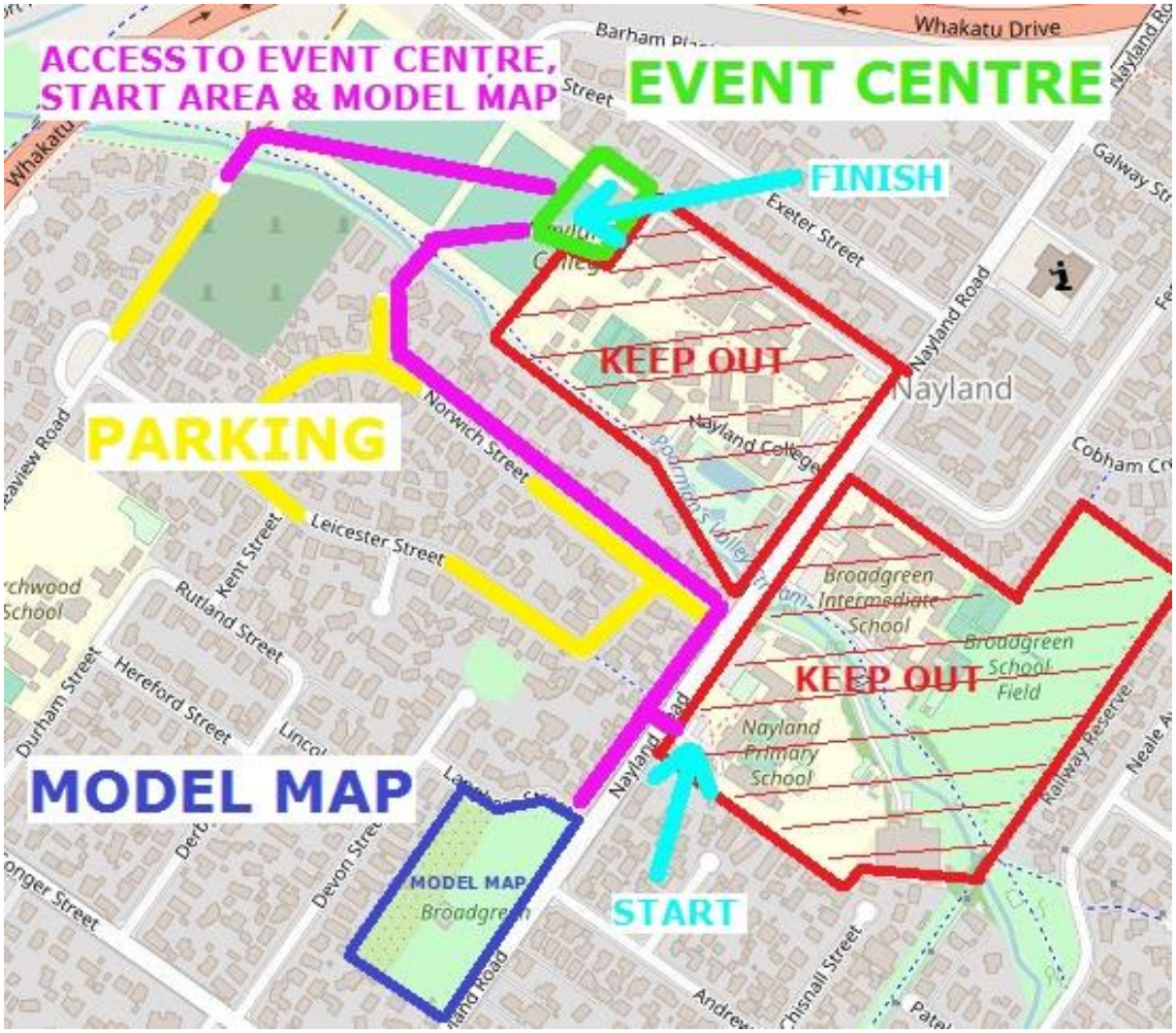
Embargoed area

All three Nayland schools are embargoed: Nayland Primary School, Broadgreen Intermediate School and Nayland College.



Directions

Please access the Nayland schools from the south, as indicated by the map.
Travelling north on Nayland Road then turning left into Norwich Street (opposite the Primary School) and driving down to Thetford Chase. Park on Norwich Street or Leicester Street which loops back round to Norwich. Entry to the Arena will be through Thetford Chase and across the field. Orienteering signage will be located on the Nayland Road/Norwich Street corner.
If you do find yourself heading down Nayland Road from the north, travel past the College and turn right into Norwich Street.
Correct google maps directions



Parking

Please park on Norwich, Leicester Streets or Seaview Road and access the school from the Thetford Chase walkway/bridge and cross the field to the arena (College gym). Nayland College itself is out of bounds - do not enter Nayland College from Nayland Road.

Please note: Out of respect for the local residents please only park on the inside of the Norwich/Leicester road loop so the road is still able to take two way traffic - picture on the next page.

Out of bounds areas

There are a few out of bounds areas on the school terrain marked on the map due to construction. These areas are fenced off.

Event centre

The Event centre will be at the Nayland College Gym. Please see the parking information and follow these. There is plenty of seating and grassy areas for a picnic dinner during/after the event. Bring your own dinner, grab some on the way in from Rabbit Island or smash some fish and chips at Two Little Fish which is just by the start line (1km from the arena).

Toilets

There are toilets at the Event centre and Finish. There are no toilets at the start area. There are public toilets located at Broadgreen House where the model map is which is approx. 300m from the start.

Warm-up Area

From the arena to the start is approximately 1 km, which should be sufficient to break a sweat. There will be a model map provided at the Broadgreen Historic House Gardens which is an extra 300m from the start area. Maps will be at the model map start (next to the road and sign posted). Please return the map to the start once you are done with it.
The model map will be loaded up onto MapRun! (available on the day). So preload your watch and practise at full speed and compare your inferior result against the course creator 🏃💨.

Start and Finish

To rattle even the most seasoned orienteer, the Start and Finish have been placed in two different locations. The Start is located at Nayland Primary School, next to the dairy on Nayland Road. Please use the zebra crossing on Nayland Road to get to the start.
The Finish and the Event centre are located at the Nayland College Gym.

Terrain

The terrain is typical for a Kiwi school. At the Nayland schools you will find sealed paths and courts, grassy fields, barked and rubber playgrounds. Plenty of steps, fence gates (both open and closed) and walls will be added to spice things up. As it is a weekend, you shouldn't have to fight off many tamariki for a turn on the swings.

Specific map symbols

There are multi-level areas on the map which will use the ISSOM2019-2 symbol for an area passable at two levels. See here for more information.

Below are some examples of what are passable and impassable on the map. There are many fences, gates and walls that are a mixture of both impassable and passable. Always check your map, as we will check your Strava ☺.

Passable rail right. Impassable wall left

Passable fence below. Impassable above

Hazards

Hazards to be expected are similar to any urban sprint event. Competitors should take care running around blind corners, especially when trying to read the map, so as not to collide with a competitor coming the other way. The terrain has steps and levels changes. If conditions are wet, the paths and sport fields may be slippery.

There are some sections of canopy that have a lower than ideal head height. If you are very tall, please be aware of this. We will make an effort to mark these out, but can not do this for every path you may take.

Given the Sprint takes place on a weekend, it is expected the school grounds will be quiet, but there may be staff or members of the public moving around the competition area. Please be considerate of other users of the space and avoid collisions, especially in narrow passageways and on stairs. There is a possibility of vehicles moving in the school car parks and driveways.

There are many gates, fences and walls marked as crossable on the map. Please take extra care if you choose to cross these features. Always check to determine if what looks crossable is marked as crossable on the map (see above for examples).

It is recommended that footwear with good grip is worn.

Road crossing

All courses cross a public road once, using a regular pedestrian (zebra) crossing. There will be a control on both sides of the crossing that must be punched. This leg will be removed from a competitor's overall time and is not part of the actual race.

There will be a marshal at the road crossing: please walk steadily over the crossing, obeying all road rules and the directions given by the marshal. Between crossing controls and while waiting to cross, you are not allowed to look at your map.

Courses

Course	Courses		Distance (km) [1)]	Map scale	Map flip?	Difficulty
	Men	Women				
1	M20E, M21E		3.6	1:3000	Yes	Difficult

Course	Courses		Distance (km) [1)]	Map scale	Map flip?	Difficulty
	Men	Women				
2	M16A, M18A, M20A, M21A, M40A	W20E, W21E	3.3	1:3000	Yes	Difficult
3	M50A		2.9	1:3000	Yes	Difficult
4	M14A	W16A,W18A, W20A, W21A	2.6	1:3000	No	Difficult
5	M60A	W14A, W40A, W50A	2.4	1:2000	No	Difficult
6	M70A	W60A	2.0	1:2000	No	Difficult
	Rec Red Medium					
7	M80A, M90A	W70A, W80A, W90A	1.4	1:2000	No	Difficult
	Rec Red Short					
8	Rec Orange		2.3	1:3000	No	Moderate
9	M12A	W12A	1.8	1:2000	No	Moderate
	Rec Yellow					
10	M10	W10	1.3	1:2000	No	Easy
	MW10N, Rec White					
Model map	Everyone		0.7	1:2000	No	Impossible

[1)] Running distance

6. Sunday morning - ‘Long’

Date	29 January 2023
Event status	A-level
Event Centre location	Helicopter Landing Flats - West Bay
Event Centre - GPS Coordinates	-41.802799, 172.807002
Planner	Riley Croxford
Controller	Michael Croxford
Map	Buller River Flats (West Bay, Teetotal Flats, Sidewinder & West Teetotal)
May surveyed	Various 2012-2021
Mappers	Mike Wimpenny, Jason Markham, Nick Smith, Graham Teahan, Bryan Teahan & Michael Croxford
Map scale(s)	1:10,000 - MW16 to MW21 grades 1:7,500 - MW14 and MW40 to MW50 grades 1:5,000 - All other grades including all Rec
Contour interval	5m
Map flip	No
Registration opens	10 am
First start	11 am
Course closure	3 pm

Embargoed area

West Bay and all parts of Teetotal Flats are out of bounds. Camping on the evening of Saturday 28 January 2023 is allowed at the DOC Teetotal and Kerr Bay Campsites. No camping is allowed at the DOC West Bay or the Teetotal (Self-Contained) Campsites.

Terrain

Glacial moraine and alluvial features. Erratic boulders set in fast open grassed flats and slow Manuka / kanuka forest. Generally flat with intricate contour features in parts.

Directions

Drive south from Nelson approximately 30km on State Highway 6 to just past the historic windmill at Belgrove. Turn left into Wai-iti Valley Road and follow road signs for 45km to St Arnaud through Golden Downs and Kikiwa to State Highway 63. Turn right and travel 7km through St Arnaud. The main, but very limited, parking area at the DOC Teetotal Campsite is a further 1.7km on your right after the Alpine Lodge.

To access the priority parking area, as detailed below, at Helicopter Landing Pad Flats drive a further 400m along the State Highway and turn left on to Mt Robert Road. The parking area is 500m on your right. Please note that this is a 30 km/h road.

Parking

There is a parking area at the gravelled area outside the DOC Teetotal Campsite with a 10 minute walk to the arena via the Moraine Walking Track. Please park at least one car length away from the road verge. *This is strictly limited to 30 vehicles only*. If this limit has been reached you must park in St Arnaud and walk via the Brunner Peninsula Walking Track or the Moraine Walk to the Arena. The entrance to the track to the Arena is directly opposite on the southern side of the State Highway. Please cross at a point directly opposite the track entrance and do not linger near the road.

Limited priority parking is available for volunteers, families (MW12 and under) and over 65s (Gold Card Holders) only at the arena at Helicopter Landing Pad Flats. Please do not use this option if you do not meet the criteria even if there are spare car parks at the arena. We need to limit parking in this area as part of our access agreement. Parking at the jetty a bit further down the road is *not* allowed either.

If you are staying in St Arnaud Village please consider walking via Brunner Peninsula Walking Track or the Moraine Walk to the Arena.
The limitations on parking are in our DOC Access Permit. Please respect these restrictions so that we may continue to have access to this area for orienteering.

Out of bounds areas

All of Teetotal Flats is out of bounds excluding the DOC Teetotal Campsite. All of West Bay is out of bounds excluding the Arena at Helicopter Landing Pad Flats, the wharf at West Bay, and the Moraine Walking Track from Teetotal to the Arena.

Event centre

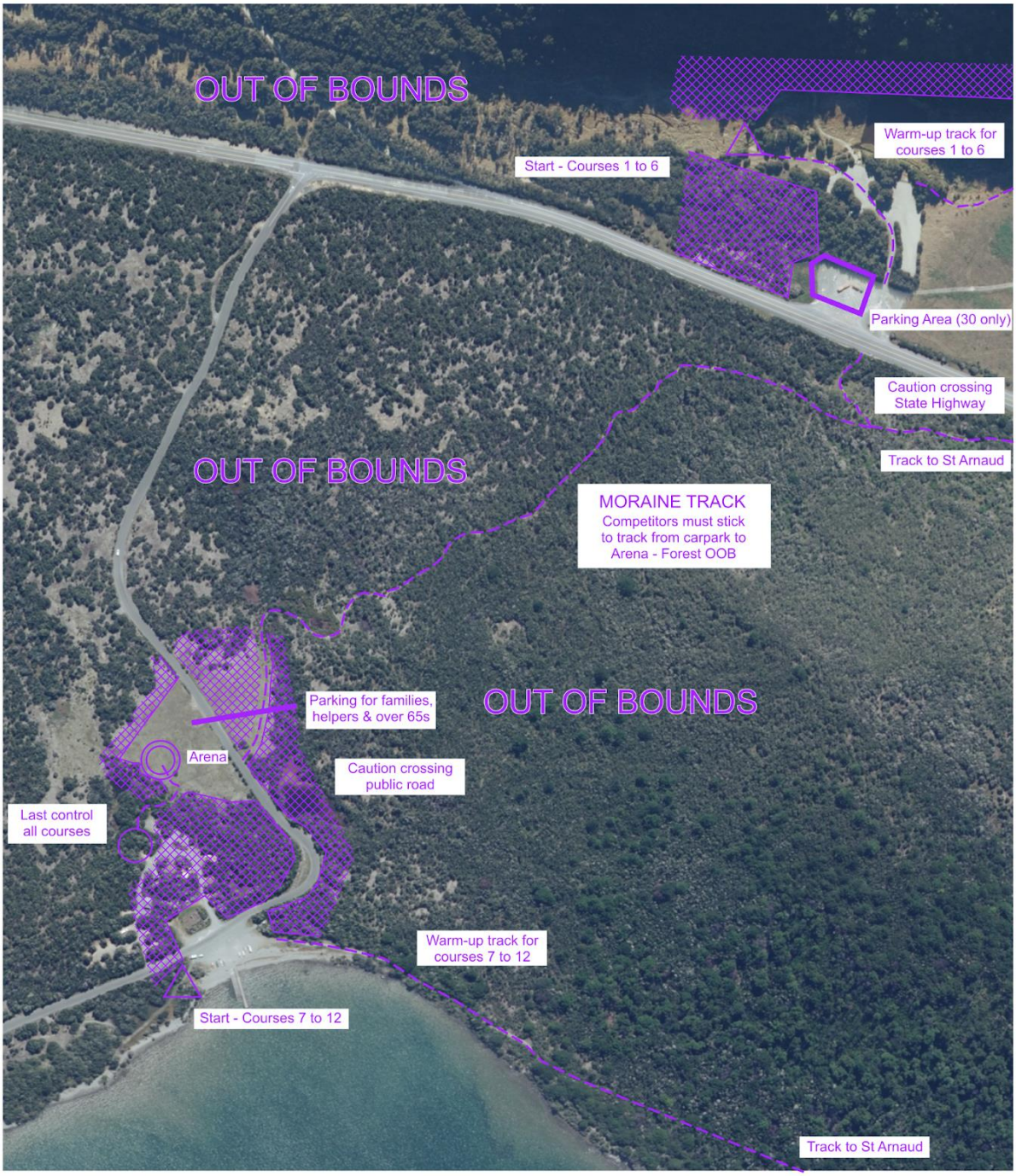
The event centre is at the Helicopter Landing Pad Flats where the Finish and Results Centre will be (see diagram). There is limited shelter so please consider bringing your own shade/shelter. A low speed road dissects the Flats - please only cross at the marked crossing point.

Warm-up Areas

For warming up, participants on courses 1 to 6 may use the Village Link Track that starts at the Ice Skating Pond at the DOC Teetotal Carpark and heads east towards St Arnaud. Please do not use the Moraine Walking Track to warm-up (except for walking/jogging to the Teetotal Campsite).
Participants on courses 7 to 12 please use the Brunner Peninsula Walking Track for warming up. This track starts at the West Bay public toilet beside the wharf and heads back towards St Arnaud along the lake shore.

Start and Finish

The start for Courses 1 to 6 is a 10-15 minute walk from the Event centre via the Moraine Walking Track back via the main parking area. Please remember to be careful to cross SH63 at the designated crossing point and do not linger by the road. Please give plenty of time to reach the start.
Courses 7 to 12 has a 2 minute walk from the arena along Mt Robert Road to the wharf at West Bay. Please be careful of vehicles along the route to the start. Young children need to be supervised. Do not use the road or parking area at West Bay wharf to warm-up, please use the Brunner Peninsula Walking Track.



Water

There will be water controls available at marked locations for Courses 1 to 4 and at the control before the compulsory route for Courses 1 to 6. There is no water control on any of Course 7 - 12.

Specific map symbols and notes

State Highway 63 is strictly out of bounds. You may not cross the road or run beside it within the road reserve. A special purple infill of the road symbol has been used to emphasise this.
Courses 1 to 6 will pass under the bridge on State Highway 63 at the Buller River.

- On the map it is marked with a purple crossing symbol and a taped route from the last control on Teetotal Flats and leads to a start triangle on the West Bay side of the road. Please remember to punch the control at the start of this mandatory route.

- On the ground there will be a tape leading from the fence corner at the last control to the start triangle on West Bay. The taped route crosses the fence, goes under the bridge and along a track to the start triangle marked on the ground as a control stake and flag.

There has been significant regrowth of the manuka/kanuka forest within clearings in the last few years and the edges of the clearings have become vague in parts. The new growth is still relatively easy to pass through and doesn't affect runnability.

It has been very dry up at the lake in the last month or so and most mapped marshes and ponds are currently dry and may be difficult to see. However, as this is an alpine environment significant rain could result in standing water in marshes. You are warned.

Hazards

Wasps	Numbers can be very high in the native bush around Nelson Lakes National Park. They can be very aggressive, and are capable of stinging multiple times. Once a nest is disturbed, wasps can swarm. Thankfully, they do not tend to nest in the manuka/kanuka forests on the Buller River Flats and are in relatively low numbers. If disturbed, leave the area immediately.
Bees	The manuka/kanuka trees were flowering in early January and there are hives present on Teetotal Flats marked on the map as a small out of bounds area but not taped in the field. If you are allergic to bees please carry your own epipen with you and inform the event organisers prior to your race.
Compulsory Route for Course 1 to 6	There is a compulsory route to follow from Teetotal Flats to West Bay, as detailed in the Specific Map Symbols section. The route crosses a fence, goes under the State Highway bridge and traverses some rocky ground. All competitors must pass through this route.
State Highway	The State Highway is strictly out of bounds unless crossing between the main parking area and the Moraine Walkway. Please do not linger near it as it is an 80km/h zone. Young children must be supervised in this area.
Road Crossing along Mt Roberts Road	All courses cross Mt Roberts Road at least once. It is a low speed environment (30 kmph) but vehicles have the right of way. Please brief young competitors regarding crossing these roads before they compete.
Lake Rotoiti and Buller River	Some courses pass close to the Buller River and competitors are advised that this is a fast flowing river that is not safe to enter. Some courses have controls along the lake foreshore, these may require some wading if there has been significant rainfall in the week prior to the event.
Weather	St Arnaud is in an Alpine Environment being at just over 600m above sea level. Weather can be highly variable and please ensure that you are prepared from all conditions from very still hot days to very cold wet conditions.
Firing Range	There is a small firing range on Teetotal Flats used for sighting guns. It is marked on the map as out of bounds and signposted in the field but *not* taped.
Fire Danger	Please follow any instructions issued by Fire and Emergency NZ. If you hear six long blasts on a car horn move immediately to the State Highway or the Lake shore.
Eye Protection	The manuka/kanuka is dense in parts and can be difficult to pass through in places. Please consider eye protection.

Courses

	Class		Distance (km)	Map scale	Climb (m)	Map flip?	Difficulty	Con-trols
	Men	**Women**						
1	M21E		14.2	1:10,000	200	No	Red	34
2	M20E		11.4	1:10,000	170	No	Red	28
3		W21E	9.8	1:10,000	145	No	Red	28
4a	M18A, M21A	W20E	7.9	1:10,000	125	No	Red	22
4b	M40A			1:7,500				
5a	M16A		6.1	1:10,000	100	No	Red	21
5b	M50A	W40A		1:7,500				
6a		W16A, W18A, W21A,	5.3	1:10,000	75	No	Red	18
6b		W50A		1:7,500				
6c	M60A			1:5,000				
7	M70A	W60A	3.1	1:5,000	45	No	Red	12
	Rec Red Middle							
8	M80A,M90A	W70A, W80A	1.8	1:5,000	25	No	Red	9
	Rec Red Short							
9	M14A		3.5	1:7,500	60	No	Orange	11
10a		W14A	2.5	1:7,500	45	No	Orange	8
10b	Rec Orange			1:5,000				
11	M12A	W12A	1.7	1:5,000	35	No	Yellow	9
	Rec Yellow							

	Class		Distance (km)	Map scale	Climb (m)	Map flip?	Difficulty	Con-trols
	Men	**Women**						
12	M10	W10	1.3	1:5,000	25	No	White	11
	MW10N, Rec White							