

Hams - Ray Miller 50/50 Ultimate Trail Run, Saturday, December 1, 2018

The **Ray Miller 50/50** is only about a month away (33 days and 16 hours) on **Saturday, 1 December 2018**. As most of you know, this is a 50 Mile / 50 Kilometer race. For fun, there is a shorter 30 Km race included, so actually three races on the same course. It is run at **Pt. Mugu State Park** just across the Los Angeles county line on / near PCH .



Sun Rise, Pt. Mugu, last Year, December 2, 2017 from the Repeater, El 1135 feet – Photo credit: Raul, KM6NRL

The first race starts at **6:00 AM and finishes at about 8:00 PM**, so it's a long day for the NCS and at the **Start/Finish line**. The good news is that we have a regular operators who usually take those spots. The race is in a big loop so there are aid stations that start early and are done by Noon and others that start later in the day and are finished later in the day, but are done before the end of the race. So, if you can come for only **part of the day** you can be **accommodated**.

After the Start the runners head up the Ray Miller Trail to the top and over to the Hell Hill Aid Station. This is the 1st, 2nd and 3rd Aid Station which runners pass though as they go through two loops and so they go through this same aid station three (3) different times. Then they move on to Aid Station #4, Danielson Ranch. If they are on the long 50 miler, Aid Station #5 Yerba Buena Rd (a parking area next to a paved road) is next. They turn around here and head back to Aid Station #6, Sycamore Canyon Road/Fire Road Aid Station, and then up the trail to the top of the Ray Miller Trail and down it to the Finish Line, which is close to where they started.



The 50 Mile course.

One Aid Station is on (or near) a paved road, two are on Flat easily traveled Forest service roads (you will be escorted by a ranger, High clearance and/or 4wheel drive NOT required) and one, Hell Hill, is a little more challenging forest service road (again you will escorted by a ranger) High clearance nice, but usually not required in fair weather.



**Sun Rise at the Portable Repeater site –
Elevation 1135 feet - December 2017**

Besides the Aid Stations, there will be a Net Control Station and the Portable Repeater setup between the top of the Ray Miller Trail and the Hell Hill Aid Station at the highest location on the course.

For more Race info see web site: <http://raymiller5050.com/>

The Portable Repeater

The Portable Repeater will be operated from Three (3) 100 Amp-Hour SLA Batteries and a 100 Watt Solar panel. If overcast, raining, or high winds, the backup will be the truck battery and engine. This year I will ask all operators to have both a primary

and secondary Memory programmed for the repeater. Both memories will have the same Tx and Rx Frequencies, but the second memory will have a different PL tone. Last time out we had interference from another repeater. Changing to a second PI Tone would have solved the problem, but at that race neither the Repeater nor Operators were ready for such a change, 'on the fly.'

Radio Gear - Repeater

At most locations (HH and Davidson) a two (2) Meter hand held, 5 watt rig, is sufficient. A full size external antenna may be need in one location (Fire Line) and the paved road location (Yerba Buena) will need a good gain antenna on a pole to hit the Portable Repeater reliably, although I think a mag mount has worked, if the vehicle is parked in a good location. Running a little power (50 watts) may also help.

Primary Frequency/PL:	HT Rx 144.930 PL 151.4
	HT Tx 147.585 PL 151.4
Secondary Frequency/PL:	HT Rx 144.930 PL 131.8
	HT Tx 147.585 PL 131.8

Radio Gear – Simplex

For effective simplex operation, most all locations will required a good **External Antenna** up 10 to 15 feet and running a little power will also help. In the event of Repeater Failure the repeater operator has been able to work all stations with only 5 watts if he uses a good external gain antenna and with the stations using their 5 watt HTs. So in a pinch, relaying through that operator can work.

The Job

The job is helping the Aid Station Captain to account for all the Runners at the Aid Stations and to notify NCS and Start-Finish if they seem to be missing. So by all means, introduce yourself to the Aid Station Captain and find out who is helping to capture the bib numbers of runners passing through the Aid Station. Providing Communications support for this race will test your communications skills, the reliability of your Radios and your ability to be comfortable in the field, which may make you more ready to support that communications emergency that we hope never happens, but that may be right around the corner.

This event is run in fair or foul weather.

Please let me know if you're available for this race. Respond to this E-mail or Call the home phone and leave a message.

Race Web Site: <http://raymiller5050.com/>

73 Dale WB6MMQ

310-641-8403 (h) (takes a message)

213-285-9407 (cell) (No messages) Is on mostly if I am out of the house.



**Repeater site and NCS operations at Sun Rise
Elevation: 1135 feet – December 2, 2017**