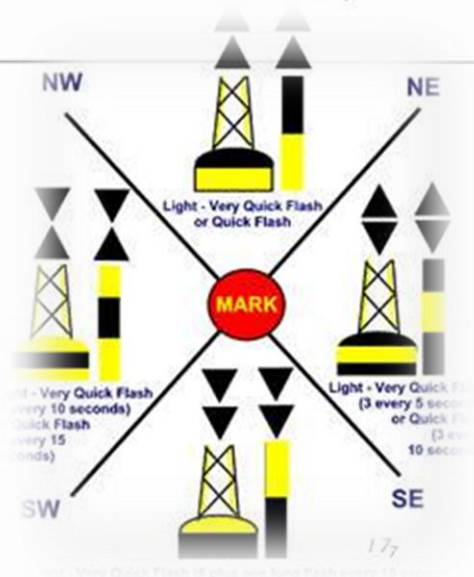


Nav Rally Intermediate Points

BMYS Training 2025



Plotting the Course – Intermediate Coordinates

GPS Visualizer

<http://www.gpsvisualizer.com/calculators>

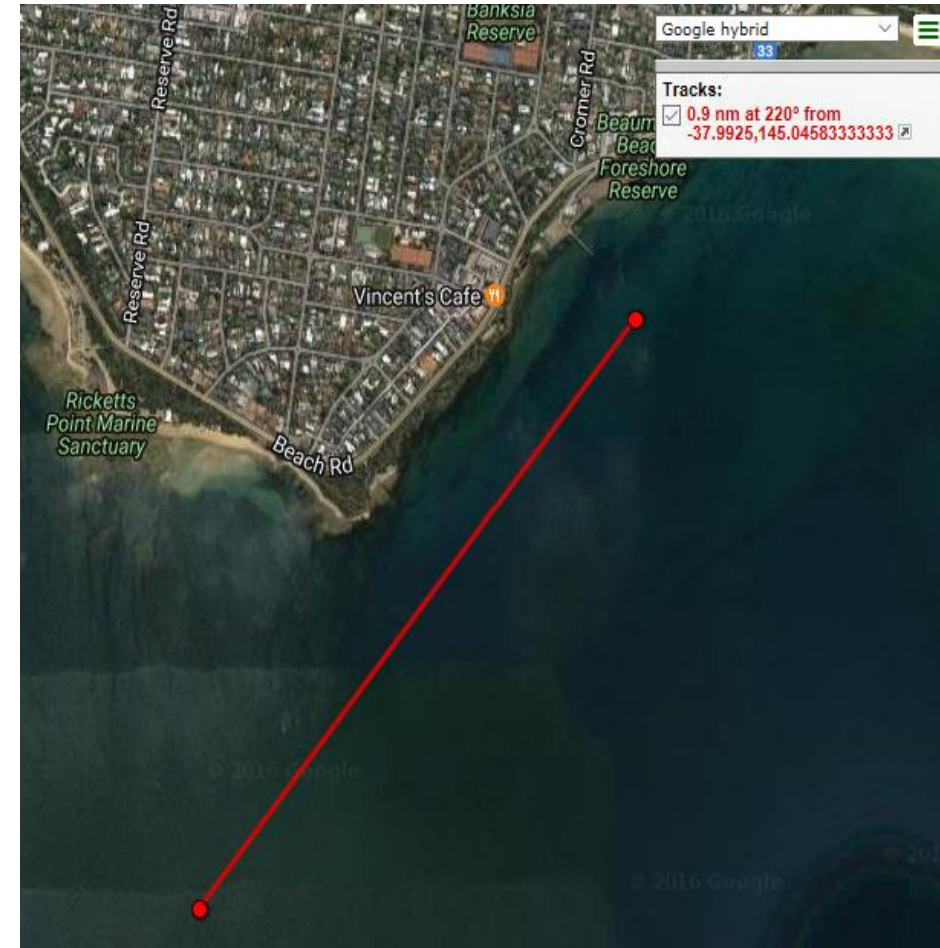
Find the coordinates at a given distance and bearing

This form will tell you what point lies at any distance and bearing from another point. If you don't supply units in the distance box itself (e.g., "100 mi"), it will default to kilometers. (The formula used here was adapted from "[Sprong](#)" by Dale Bickel at the FCC.)

Starting Lat., Lon. -37 59.55, 145 02.75	Distance 0.9 nm	Bearing 220 °	→	Ending Lat., Lon. -38.0039829379, 145.0336	output format: Google Map	Draw map
<small>Convert to DMM/DMS format</small>						

Turn 1 from Start
0.9 NM at
220 degrees

Leg 1 Intermediate
Change distance
to 0.45 NM



Plotting the Course – Intermediate Coordinates 2

Great Circle Calculator

<http://edwilliams.org/gccalc.htm>

Compute lat/lon given radial and distance from a known point

Enter lat/lon of initial point, true course and distance. Select distance units and earth model and click "compute". Lat/lons may be entered in DD.DD, DD:MM:MM or DD:MM:SS.SS formats.

Input data

Lat1		Lon1	
37:59.5500	S ▾	145:02.750	E ▾
Course 1-2		Distance 1-2	
220		0.9	

Turn 1 from Start
0.9 NM at
220 degrees

Leg 1 Intermediate
Change distance 1-2
to 0.1 NM

Latitude Facts

- 1 NM = 1852 M
- 1 degree Lat = 60NM
- 1 minute Lat = 1 NM
- 0.1 minute = 185.2M
- 0.001 minute = 1.852M
- 0.0001 minute = 0.1852M

Output

Lat2		Lon2	
38:0.2402	S	145:2.0181	E

Units: Earth model:

Plotting the Course – Waypoint Coordinates 3

Movable Type Scripts

<http://www.movable-type.co.uk/scripts/latlong.html>

Destination point given distance and bearing from start point

Given a start point, initial bearing, and distance, this will calculate the destination point and final bearing travelling along a (shortest distance) great circle arc.

Destination point along great-circle given distance and bearing from start point

Start point: ,

Bearing:

Distance: km

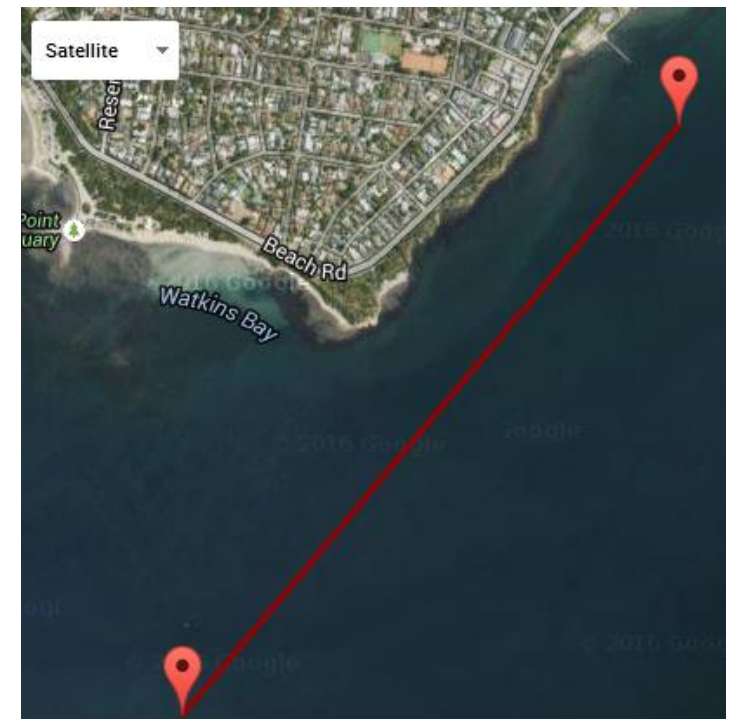
Destination point: **38°00'14"S, 145°02'01"E**

Final bearing: **220°00'27"**

hide map

Turn 1 from Start
0.9 NM at
220 degrees

Leg 1 Intermediate
Change distance 1-2
to 0.1 NM



Nav Rally Questions

