

CALCULATING Lats & Lons.

Using the Great Circle Calculator with the running sheet – Goto: <http://www.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.

Note that the starting point cannot be a pole.

1. Enter the previous Lat & Lon position

2. Enter the current heading

3. Enter the desired distance

4. Press Compute for result

Input data			
Lat1		Lon1	
37:59.592	S	145:02.783	E
Course 1-2		Distance 1-2	
206		0.167	

Output			
Lat2		Lon2	
37:59.7423	S	145:2.6904	E

Distance Units: Earth model:

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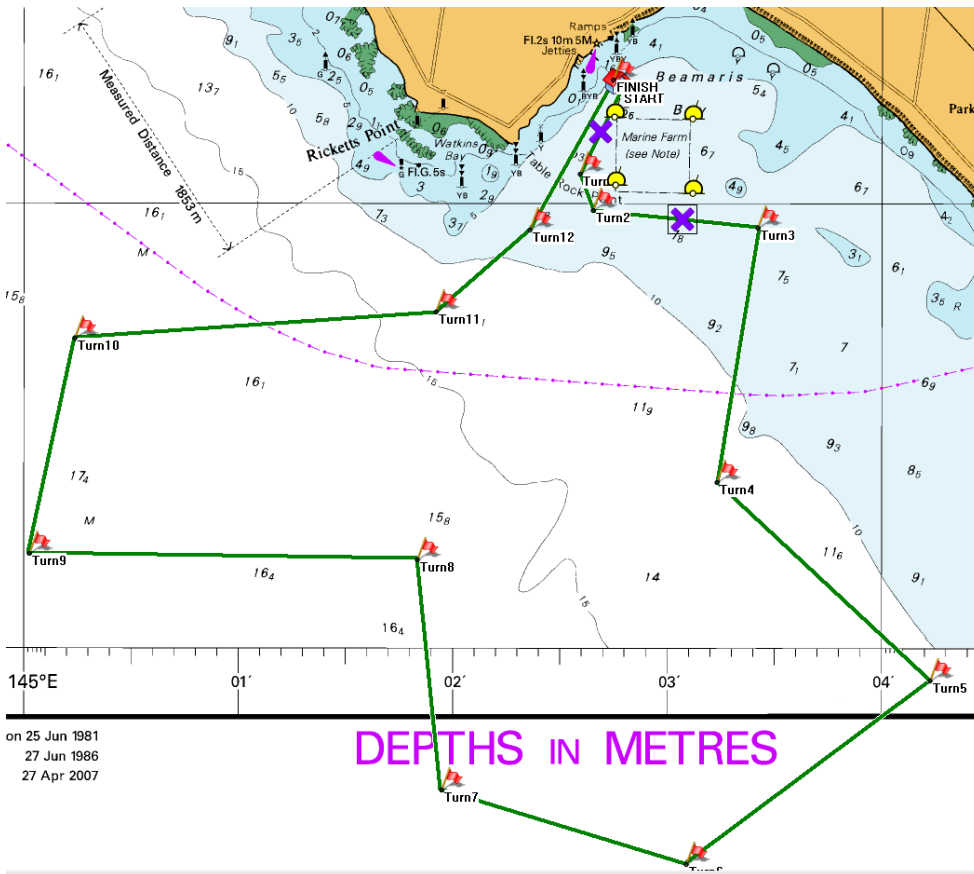
Enter lat/lon of initial point, true course and distance. Select distance units and earth model and click "compute". Lat/lons may be entered in DD.DD, DD:MM.MM or DD:MM:SS.SS formats.

Note that the starting point cannot be a pole.

Distance Units: Earth model:

Input data			
Lat1		Lon1	
38:00.029	S	145:02.655	E
Course 1-2		Distance 1-2	
96		0.333	

Output			
Lat2		Lon2	
38:0.0638	S	145:3.0740	E



5. Purple "X" indicating where your intermediate checks should be on your boats GPS map.

SKIPPER NAME:		SPEED 10 KN		BOAT NAME:					
NAVIGATOR NAME :				TACK-TRACKER No: BMYS					
				RACE No: 4					
POSITION	DIST	SPEED	TIME	TOTAL DIST	TOTAL TIME	ETA	LAT.	LONG.	TURNNNo.
START HEAD 206 TRUE	0.000	10	0:00:00	0.000	0:00:00	9:30:00	37:59:592 S	145:02:783 E	START
Intermediate Position 1	0.167	10	0:01:00	0.167	0:01:00	9:31:00	37:59:742 S	145:02:690 E	
	0.000								
	0.000								
	0.000								
TURN TO 160 TRUE	0.340	10	0:02:02	0.340	0:02:02	9:32:02	37:59:897 S	145:02:594 E	1
	0.000								
	0.000								
	0.000								
	0.000								
TURN TO 96 TRUE	0.140	10	0:00:50	0.480	0:02:53	9:32:53	38:00:029 S	145:02:655 E	2
Intermediate Position 1	0.333	10	0:02:00	0.813	0:04:53	9:34:53	38:00:063 S	145:03:074 E	
	0.000								
	0.000								
	0.000								
TURN TO 189 TRUE	0.610	10	0:03:40	1.090	0:06:32	9:36:32	38:00:093 S	145:03:424 E	3
	0.000								
	0.000								
	0.000								
	0.000								
TURN TO 133 TRUE	0.950	10	0:05:42	2.040	0:12:14	9:42:14	38:01:030 S	145:03:236 E	4
	0.000								
	0.000								
	0.000								
	0.000								
TURN TO 233 TRUE	1.070	10	0:06:25	3.110	0:18:40	9:48:40	38:01:759 S	145:04:228 E	5
	0.000								
	0.000								
	0.000								
	0.000								
TURN TO 287 TRUE	1.120	10	0:06:43	4.230	0:25:23	9:55:23	38:02:433 S	145:03:093 E	6
	0.000								
	0.000								
	0.000								
	0.000								
TURN TO 354 TRUE	0.940	10	0:05:38	5.170	0:31:01	10:01:01	38:02:158 S	145:01:953 E	7
	0.000								
	0.000								
	0.000								
	0.000								
TURN TO 271 TRUE	0.850	10	0:05:06	6.020	0:36:07	10:06:07	38:01:313 S	145:01:840 E	8
	0.000								
	0.000								
	0.000								
	0.000								
TURN TO 12 TRUE	1.430	10	0:08:35	7.450	0:44:42	10:14:42	38:01:288 S	145:00:027 E	9
	0.000								
	0.000								
	0.000								
	0.000								
TURN TO 86 TRUE	0.810	10	0:04:52	8.260	0:49:34	10:19:34	38:00:497 S	145:00:240 E	10
	0.000								
	0.000								
	0.000								
	0.000								
TURN TO 49 TRUE	1.330	10	0:07:59	9.590	0:57:32	10:27:32	38:00:404 S	145:01:923 E	11
	0.000								
	0.000								
	0.000								
	0.000								
TURN TO 28.9 TRUE	0.460	10	0:02:46	10.050	1:00:18	10:30:18	38:00:102 S	145:02:363 E	12
	0.000								
	0.000								
	0.000								
	0.000								
FINISH	0.632	10	0:03:48	10.682	1:04:06	10:34:06	37:59:550 S	145:02:750 E	END