

Time	Height
0014	2.7 m
0603	0.8 m
1209	2.9 m
1830	0.6 m

19. Find Initial Course & Great Circle distance from $35^{\circ}35'N$, $141^{\circ}42'E$ to $37^{\circ}48'N$, $123^{\circ}20'W$. **(10 Marks)**

20. **(3 + 7 = 10 Marks)**

- a. Find Geographical position of Sun on 29 Feb 2008 at GMT 05h 35m 15s
- b. Explain how the durations of day & night depend upon the declination of the sun and latitude of the observer

