

Question 4

A few points to note with this question. In this exercise we are assuming that it wasn't possible to obtain the Mer Pass. We have therefore continued our voyage and taken a second sight of the sun, when possible, in the afternoon.

The process must be in the following order:

Morning sight obtained (can be reduced and plotted at this point if desired)

Afternoon sight obtained (including log reading to determine run undertaken between sights)

Reduce morning sight

Plot morning sight and run to establish transferred line of position and DR2

DR2 then becomes the DR for the afternoon sight reduction.

Note - 2nd sight was upper limb

It's November and we are in the Northern hemisphere (Sun in the Southern Hemisphere). Therefore, the situation will be contrary.

15th November 2020

Time zone +3

Morning sight

Ship's time	0915h
DR position	15° 49.0' N 043° 44.0' W
Sextant reading	40° 07.0'
Chrono	12h 14m 32s
Index error	zero
Lower limb	
Height of eye	4.5m

Run

265° T 28nm

Afternoon sight

Sextant reading	52° 25.0'
Chrono	15h 47m 03s
Index error	zero
<u>Upper limb</u>	
Height of eye	4.5m

