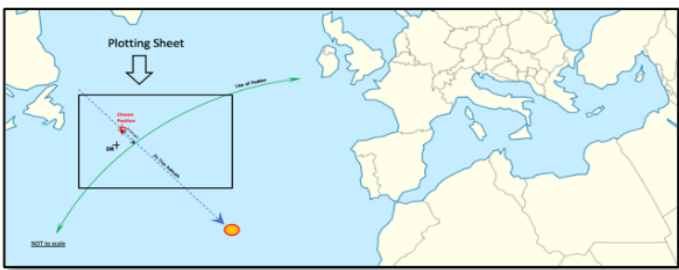


DATE 20<sup>th</sup> June 2020

DR LATITUDE 45<sup>0</sup> 46.0'  N  S  
 DR LONGITUDE 005<sup>0</sup> 04.0'  W  E



SHIPS CLOCK 11:22  
 ZONE TIME WEST (+) 0 EAST (-) 0  
11:22 UT  
 DATE IN GREENWICH 20<sup>th</sup> June 2020

### Sun Sight Pro forma

SEXTANT  On arc = 64<sup>0</sup> 20.0'  
 INDEX ERROR Off arc =  SUBTRACT 0.0'  
64<sup>0</sup> 20.0'  
 HEIGHT OF EYE 3.0 m SUBTRACT 3.0'  
 APPARENT ALTITUDE 64<sup>0</sup> 17.0'  
 ALTITUDE CORRECTION  SUBTRACT 15.5'  
 TRUE SEXTANT ALTITUDE (Ho) 64<sup>0</sup> 32.5' B →

CHRONOMETER 11 H 22 M 31 S  
 CORRECTION PLUS (+) 0 M 0 S MINUS (-)  
 UT 11 H 22 M 31 S A →

A → <u>11</u> H <u>22</u> M <u>31</u> S	GHA <u>344</u> <sup>0</sup> <u>34</u> . <u>8</u> '	DEC <u>23</u> <sup>0</sup> <u>26</u> . <u>1</u> ' <input checked="" type="radio"/> N <input type="radio"/> S d <u>0</u> . <u>0</u> ' <input checked="" type="radio"/> (v)
	ADD <u>05</u> <sup>0</sup> <u>37</u> . <u>7</u> '	<u>0</u> . <u>0</u> ' ← v and d corrections
	GHA = <u>350</u> <sup>0</sup> <u>12</u> . <u>5</u> '	DEC = <u>23</u> <sup>0</sup> <u>26</u> . <u>1</u> '

If we are WEST SUBTRACT ASSUMED LONG FROM GHA  
 If we are EAST ADD ASSUMED TO GHA (add 360 to GHA if req'd)  
 If LHA is > 360 subtract 360

ASSUMED LONGITUDE 005<sup>0</sup> 12.5'  
 LHA = 345<sup>0</sup> 00.0' C →

ASSUMED LATITUDE 46<sup>0</sup>  N  S → C  
 LHA 345<sup>0</sup> → D  
 DEC 23<sup>0</sup>  N  S → D

NB - Chosen Latitude = D.R. Latitude rounded UP or DOWN

Using ASSUMED LAT, DEC, SAME/CONTRARY & LHA in the SIGHT REDUCTION TABLES VOL 2 or 3 look up the Hc, d correction and the Azimuth (Z)

SAME or CONTRARY

Hc	<u>63</u> <sup>0</sup> <u>59</u> . <u>0</u> '	d <input checked="" type="radio"/> (+) <u>5</u> . <u>5</u> '	Z	<u>148</u> <sup>0</sup>
CORRECTION	<u>+24</u> . <u>0</u> '			
CALCULATED SEXTANT ALTITUDE Hc	<u>64</u> <sup>0</sup> <u>23</u> . <u>0</u> '			
TRUE SEXTANT ALTITUDE Ho	<u>64</u> <sup>0</sup> <u>32</u> . <u>5</u> '			
INTERCEPT	<u>9</u> . <u>5</u> '	TOWARDS AWAY		Zn <u>148</u> <sup>0</sup>

TABLE 5

N. Lat. { L.H.A. greater than 180° ... Zn=Z  
 L.H.A. less than 180° ... Zn=360°-Z  
 S. Lat. { L.H.A. greater than 180° ... Zn=180°-Z  
 L.H.A. less than 180° ... Zn=180°+Z