

Transcript of Worsley's Navigational Log Book

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Version 3.1 26Jan2017

Any transcription errors remain my own.

This text is difficult to read and I am writing what I see. It may not be correct.

The spacing of characters is not exactly as shown.

Each page is kept separate, as it is in the log.

KEY

- ☒ A character I cannot read
- {☉} Lower Limb of Sun Symbol
- {*} Midpoint of Sun Symbol (line thru middle of sun)

Note:

- (1) the log has now been updated with the missing data, 30 April 1916 thru 3 May 1916
- (2) the log has now been corrected via traverse calculations
- (3) I have received a better image of page 99, 4May thru 6 May 1916. This changes almost all of the illegible characters to legible!
- (4) For Monday 8 May the breezes are listed as NNWEWNW. Worsley did NOT use punctuation here. It could read NNW E WNW, but other combinations occur. This was a note to himself, not a record for us. It would have made sense to him for his DR.
- (5) After carefully re-reading the handwritten log and the Dennett transcription, I have modified the text associated with 24 April 1916.
- (6) Added journey planning feature ahead of 24April1916
- (7) Modest changes to some characters as equation checks provide clarity.
- (8) Typographical errors on 7May and 26April found and corrected.
- (9) Updated planning data for 29April based upon equation checks
- (10) Updated a single character for 4May, based upon analysis of Robin Stuart.
 - a. Was "DR N45°E40^m 49.5 49.5 = 88"
 - b. Now is "DR N45°E70^m 49.5 49.5 = 88"
- (11) Updated the departure for 1May, based upon analysis of Lars Bergman
 - a. Was $23+19=35$
 - b. Now is $23\ 19.3 = 35$
- (12) Updated 4 May, with correlating updates from Lars and Robin
 - a. Was $44^{\circ}50'13''$ Now is $44^{\circ}50'15''$ for the resultant longitude
 - b. Was 27.23.8 Now is 22.23.8 for the apparent time
- (13) Updated 5 May,
 - a. Was DR N50°E90^m, Now is DR N50°95^m. Worsley appears to correct himself, as both numbers are present, with the 5 larger and heavier, and the 0 the same size as the 9.
- (14) Updated 6 May, based on analysis of Lars Bergman
 - a. Dlong was 52' Now is 1 52'
- (15) Updated 7 May, based on analysis of Lars Bergman

- a. Was 16.1 36.7 Now is 3.1N 36.7
- b. PM Time sight adding 23 instead of 25 to 39°11, obtaining 39.34

Cape Belsham 61°4'S 54°50'	Sec C	10.19649
46'W of Wallis 54°4' 39°0'	+logDLat	2.62325
420 950	=Log Dist	2.81974 = 661
Cos M Lat 57°34' = 9.729.42	To Wallis =	27
Log D Long 950 2.977 72		688
12.707 14	To Leith Harb	62
-Log D Lat 420 2.623 25		750
=Tan Co = N50°30'E 10.083 89 -		

Monday, April 24th

Wild Camp for Rating Chron

		<u>192</u>
Slow 10.51		262
24.40.1	{⊙}	8°21 ½' AM
+ 1 53		315.34 cd be obtained +
24 41 54		011.03 Long. Of C. Belsham being
21. 4.35		827.95 only approx ^{ly} known to
3.37.19		990.05... us, allow 1minute+4sec more
54°19'.45"		144 37...slow = <u>11^{min}55^{sec}</u> slow

11

Took departure from Wild Camp in "James Caird" at 12
 Steered NNE 8^m then E1^m to a break in the stream ice here being
 E+W. Mean of courses to noon on 25th = N64^m Wind to 4^PWNW
 to 6A.SE to North
 tuesday to noon West 6-

Tuesday April 25th

North 64 ^m from CWild = WSW 6 o'cast	<u>60°0'S 54°50'</u>
High NW swell cross seas	
Chron <u>192</u>	April 25 th 12 ^M 0" slow losing 5 sec
262	26 th 12 5
	27 th 12 10
	28 th 12 15
	29 th 12 20
	30 th 12 25

Wednesday April 26th

DR N45E110 = 77.8 77.8 = 153	59°50'	58°42' 52°17'
2.23.29	☒☒	NE
26 7	2.26.6 {☉}15°50 AM	59°46' 50°49'
<u>30 10</u>	+ 2.15 59 50 298.85	
19.46	2 28.21 103.32 012.23	
2.26.35		16°28'
Fast 29	23 6.11 179.12 843.93 WSW gale	16 37
<u>2.26. 6</u>	3.22.10 89.36 982.33 sq. cloudy	73. 20 ☒
☒☒☒☒☒☒	50°32'30" 73.46 137 34 Heavy Seas	<u>13 32</u> ☒
	+ 16	59 47.44
	50.48.30	

Thursday 27th April

Chron 192/262	12 ^m 10 ^s slow	59°46' 50°48'
	N ^{ly} gale o'cast + misty squally	

Friday 28th April

59°52'S 50°0'W allowing AM o'cast PM cloudy
 Light NW to fresh W^{ly} o'cast+misty
 High NW swell
 1^m4' more slow for rating from Wild
 Camp = 50°16' Chron 12^m15^s slow 59°52' 50°16'

Saturday 29th April

6° 43'		
16 . 52. 30		58.42' 48°40'
3 . 7. 30	N35E85DR 24hrs	
14. 29. 45	12 9.8 6.9 = 13	58°38' 50°0'
<u>58. 37. 45</u>	27 ^m W. of Wallis	27 ^m W Wallis
24. 59. 5	=54°4'39°0'	N53E 458m
+ <u>2. 42</u>	58.38 50.0.	to Leith <u>90</u>
25 1 47	274 660=365.8	548
21. 39. 41	174.37` 671.74	☒☒
3. 22. 6	87.18½ 986.83 56 184.5	Fresh W ^{ly} to WSW breeze
50° 31 34	75. 57½ 958.21 57 ^s 179.7	Cloudy+misty High
	4.8	Lumpy sea
	2.6	
	183.4	

Sunday 30th April

N		58.38	50° 0
DR N35°E 78 mile	63.9 44.7 = 84	<u>57.34</u>	<u>48.36</u>
Hove to SW/S gale Heavy sea o'cast			

Monday 1st May

DR	23 19.3=35	57.34	48.36
N40°E 30 ^m		<u>57.11</u>	<u>48. 1</u>
drift SSW mod gale heavy lumpy sea			
Boat lying to sea { <i>anchor symbol drawn here</i> } heavily iced up. o'cast			

Tuesday 2nd May

N50°E 45 ^m	Strong SW/S breeze	57.11	48° 1'
o'cast lumpy sea	28.9. 34.5	<u>56.42</u>	<u>46 58</u>

Wednesday 3^d May

SW/S to W/S mod br A	chron 12 ^m 40 ^s slow	56°42'	46°58'
N55°E 85	48.8 69.6 = 125	<u>55 53</u>	<u>44°53'</u>
Slow 46		<u>56°13'</u>	<u>45°38'</u>
24.27.9	11°14' {☉} AMN38°E 12 = 12'E		
24.27.55	56.23 256.78	Bird I	To W.P. ¹ B.I. N63°E 294
+ 3.11	105.40 016.44	54°0'S 38°0'W	To Leith Harb <u>53</u>
24.31. 6	173.17 767.75	56.13. 45.38	<u>347</u>
21.27.44	86.38 ½ 985.76	133. 458=262	
3. 3.22	75.24 ½ 026 73	66	
<u>45°50½ W -12 ½ E = 45°38'W</u>			

Blue sky passing cloud

PM Mod WSW to SSE light mod sea. S ly swell. Fine clear weather Able to reduce some parts of our clothing from wet to damp

1916 -
Thursday 4th May

DR N45°E 70 ^m 49.5 49.5 = 88						<u>56.13</u> <u>45.38</u>
Chron A N50°E 5 ^m 3.2N 3.8E = 7'				55°23'		<u>55.23</u> <u>44.10</u>
25.6.26 {⊙}	15°26'30"AM	eye 10 ft		15 59 16		<u>55°31'</u> <u>44.43</u>
Slow 12.45	<u>9.30</u>			71.22.16		N36E 52 41
				18 37 44		
				<u>10 44</u>		
				18° 27'		
25.19.11	15°36'				Bird I ^s	N69E 250m
+ 3.18	55.34	247.61			Leith Harb.	<u>53</u>
25.22.29	<u>105.58</u>	017.09				<u>303</u>
22.23. 8	177. 8	398.18	SE mod breeze			
2.59.21	88.34	980.52	B.C Fine+clear	mod sea		
44°50'15"	72.58	643.40				

Friday 5th May

SE fresh breeze squally o'cast lumpy						<u>55.31</u> 44 .43
confused sea SW swell clear ☒						1. 1 2. 7
DR N50° E95 ^m						<u>54°30</u> <u>42.36</u>
Wallis 54°4'S 38°14'W						
Breeze fairly to 8PM when					Bird Is	N79°E 163
Shifted to NNE light and gusty					Wallis	N80°E 155

Saturday 6th May

Mod NW gale o'cast clear weather						54° 30' 42°36
lumpy N ^y sea 1PM hove to sea to heavy						<u>4 1 52</u>
to carry on						<u>54° 26' 40°44</u>
DR N30E 16	13.9 8.0		54 4	38 14		
to 1PM S80E 58	10.1 57.1		22	150	Wallis I ^d	
	3.8N 65.1E				N76E 91 ^m	

1916
 Sunday 7th May

NNW gale High N^w sea

Hove to till 1AM then carr^d on again for
 the land. Mod NW/N w sea + high

54°26' 40°44'

3 1 4

NW swell. BC to 6 A when it became foggy

54°23' 39 40

DR S60° E 12^m 6.5 10.4E

N70° E 28 9.6 26.3

54°38' 39°3'6

Slow 13^m0^s 3.1N 36.7

25.24.51 {⊙} 16°55 AM ☒☒.44

Bird I^d NE56° 68^m

+ 3.32 54.39 237.64

Leith Harb 53

25.28.23 106.49 018.98

121

22.48.19 178.23 149.45

2.40. 4 89.11½ 978.88

40° 1' 72.16½ 384 95

Most unfavorable con-
 ditions for obs^{ing}. Misty with
 boat jumping like a flea
 +no limb for early AM
 sight. Noon lat prob
 ably correct within
 a 10 mile limit

23.19.38 {*} 7°21' AM

+ 3.32 54.41½ 238.09

23.23.10 106 47½ 018.92

20.44.22 168.50 988.08

2.38.48 84.25 988.84

39°42' 77. 4 233 93

30 16

5.10.14 26 {⊙} 9°49'P.M. N68°E 14^m 5.2 13.0 = 23'

+ 13 54° 8

5.23.14 9°57

Lat proved to be correct within
 about

+ 3.33 54.33 236.58

^2^m Long. ditto but chron was

5.26.47 106 52 019.10

much slower than I had

2.50 3 171.22 876.62

allowed which made us

2.36.44 85.41 986.40

about 20 ^{mile} so distance further

39°11' 75.44 118 70

astern than obⁿ showed

23

39.34 Noon

Monday 8th May

Mod to strong NNWEWNW breezes o'cast	54° 38 39 34
misty and foggy with some clear intervals	<u>19</u> <u>2 32</u>
W ^{ly} + N ^{ly} swells + lumpy confused sea	<u>54°.19</u> 37. 2
DR N78°E 90 ^m 18.7 88.0 =152	

12.30 PM sighted land about 9^m ahead, extending 2 miles off Bad Reef

{ Here Worsley sketches what he can see of South Georgia Island, noting another "island to the NE", a "Big Bay to NE of this Island", a "Glacier" between two mountain peaks and finally that "Bad Reef extends 1^m N.W of Id" }

3P.M. stood off Star tack	wind NxE 5-6 OMR
From 2 ^m off shore	Heavy W ^{ly} swell
Very bad lumpy confused sea	
Stood by for night wind WNW increase.g to a gale with	
Rain snow sleet + hail	