

答

T.A.E. $12^{\circ}59'55''\text{S.}$; C. Error $3^{\circ}52'35''\text{W.}$;

Dev. $6^{\circ}7'25''\text{E.}$

8.

答

(a) C. Co. S. 30°W. ; Distance 40 miles;

Dev. 7°W.

(b) Lat. $50^{\circ}20'\text{N.}$; Long. $160^{\circ}34'\text{E.}$

(c) Lat. $50^{\circ}23'\text{N.}$; Long. $160^{\circ}48'\text{E.}$;

Distance 13 miles

9.

Approx. S.M.T. March $20^{\text{d}}21^{\text{h}}10^{\text{m}}0^{\text{s}}$
 $5\ 49\ 8-$

„ G.M.T. „ $20^{\text{d}}15\ 20\ 52$

Dec. 31	1 st Error	$20^{\text{m}}\ 7^{\text{s}}$ fast.
30	2 nd Error	$17\ 34$ fast.
„ 1		$2\ 33$
Jan. 31		60
Feb. 13		$45)153$
<u>45 days</u>		<u>3.4 Losing.</u>

Eeb. 29	36.6
13	3.4
„ 16	1464
Mar. 20.6	1098
<u>36.6 days</u>	<u>124.44</u>
	<u>$2^{\text{m}}4^{\text{s}}.4$</u>

C.T. March $20^{\text{d}}15^{\text{h}}41^{\text{m}}52^{\text{s}}.0$

$17\ 34.0-$

„ $20^{\text{d}}15\ 24\ 18.0=.6$

$2\ 4.4+$

G.M.T. „ $20^{\text{d}}15\ 26\ 2.24=15.4+=8.6-$

N. Alm. March 21st G.M.N.

Decl.	Sem.	Eq. T. + A.T.
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59.25	<u>$16' 4''$</u>	0.750
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$8.6-$		$8.6-$
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<u>35550</u>		<u>4500</u>
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47400		6000
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<u>509.550-</u>		<u>6.4500--</u>
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$0^{\circ}12' 21''.5 + \text{N.}$		$7^{\text{m}}21^{\text{s}}.93-$
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$8\ 29.5-$		$6.45-$
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R ^d $0^{\circ} 3\ 52.0 \text{ N.}$		R ^d <u>$7^{\text{m}}28^{\text{s}}.38$</u>
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Noon Lat. $48^{\circ}24' 0''\text{S.}$

Dep. 12.0 E.

D. Lat. $5\ 0 \text{ N.}$

15.04

Sight Lat. $48\ 19\ 0 \text{ S.}$

3.01

D. Long. $18.05 \text{ E.} = 18' 3'' \text{ E.}$

Obs. alt. $\odot\ 28^{\circ}43' 15''$

$9\ 43+$

T. alt. $\odot\ 28\ 52\ 58$

T. z. $61\ 7\ 2$

$l\ 48^{\circ}19' 0''\text{S.}$	0.177170
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$d\ 0\ 3\ 52 \text{ N.}$	0.000000
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$z\ 61\ 7\ 2$	9.912027
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$48\ 22\ 52$	9.044990
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<u>$109\ 29\ 54$</u>	<u>9.134187</u>
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$12\ 44\ 10$	220
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$54\ 44\ 57$	<u>$+0^{\circ}4 = 33$</u>
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$6\ 22\ 5$	
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S.A.T. March 20^d 21^h 6^m 44^s 4
 Eq. T. 7 28.4+
 S.M.T. March 20^d 21 14 12.8
 G.M.T. March 20^d 15 26 22.4
 L.T. 5 47 50.4
 Sight Long. 86° 57' 36" E.
 D. Long. 18 3 E.
 Noon Long. 87° 15' 39" E.

答

Noon Long. 87° 15' 39" E.

10.

Alt-Azimuth.

Approx. S.M.T. Feb. 20^d 22^h 0^m 0^s
 L.T. 9 0 36-
 Approx. G.M.T. Feb. 20^d 12 59 24

S.E./E. 23' = D. Lat. 12' 8 S. & Dep. 19' 1 E.
 = D. Long. 26' 55 E. = 26' 33" E. = 1^m 46^s +

C.T. Feb. 20^d 25^h 37^m 25^s
3 13 15-
 Feb. 20^d 22 24 10
 D. Long. 1 46+
 S.A.T. Feb. 20^d 22 25 56
 L.T. 9 0 36-
 G.A.T. Feb. 20^d 13 25 20
13.4+ = 10.6-

N. Alm. Feb. 21st G.A.N.

Decl.	Sem.
53.85	<u>16' 12"</u>
<u>10.6-</u>	
32310	
<u>5385</u>	
570.810-	
<u>10° 56' 19" 2 S. -</u>	
<u>9 30.8 -</u>	
R ^d <u>11. 5' 50" 0 S.</u>	
p <u>101° 5' 50"</u>	

Obs. alt. ⊙ 30° 38' 15"
10 19+
12+

T. alt. ⊙ 30 48 46

l 44° 17' 0" N.	0.145150
a 30 48 46	0.066085
p 101 5 50	9.924982
<u>13 28 14</u>	<u>9.840302</u>
114 34 4	9.976519
<u>87 37 36</u>	<u>520</u>
57 17 2	<u>-1" = 1</u>
43 48 48	

φ N. 153° 28' 29" E.
 C. N. 185 37 30 E.
 C. Error 32 9 1 W.
 Var. 5 50 0 E.
 Dev. 26 19 1 W.

Time-Azimuth.

l 44° 17' N. & h 1^h 34^m ... + A 2.243
 d 11° 6 S. & ,, ... + B 0.492
+ C 2.735

ϕ S. $26^{\circ}57'$ E.
 C. S. $5\ 37$ W.
 C. Error $32\ 34$ W.
 Var $5\ 50$ E.
 Dev. $26\ 44$ W.

答

S.A.T. supposed to be about 10^h **A.M.**; **S.A.T.** at the time when the error of the chron. on **S.A.T.** was ascertained, $20^d 22^h 24^m 10^s$; **S.A.T.** at the time of observation, $20^d 22^h 25^m 56^s$; **G.A.T.** Feb. $20^d 13^h 25^m 20^s$; **T.** alt. $30^{\circ}48'46''$; Decl. $11^{\circ}5'50''$ S.; p $101^{\circ}5'50''$; ϕ **N.** $153^{\circ}28'29''$ **E.**; **C. Error** $32^{\circ}9'1''$ **W.**; **Dev.** $26^{\circ}19'1''$ **W.**

11.

Aug.	$25^d 10^h 46^m 7$ <u>17.0-</u>	$25^d 23^h 9^m 2$ <u>17.0-</u>	$26^d 11^h 31^m 1$ <u>25^d 10 46.7</u>
	$25^d 10 29.7$ <u>15.0+</u>	$25^d 22 52.2$ <u>10.5+</u>	Daily Var. <u>44.4</u>
	$25^d 10 44.7$ <u>5 41.0+</u>	$25^d 23 2.7$ <u>5 41.0+</u>	Eq. T. 2^m - M.T.
C.T.	$25^d 16 25.7$ <u>19.1-</u>	$26^d 4 43.7$ <u>19.1-</u>	Scm.
D. Long.	$25^d 16 6.6$ <u>26th 4^h 6.6 A.M.</u>	$26^d 4 24.6$ <u>26th 4 24.6 P.M.</u>	Noon 25^{th} <u>14' 44''</u>
			Midnight 25^{th} <u>14' 45''</u>

答

中央標準時
 $26^{\text{th}} 4^{\text{h}} 6^{\text{m}} 6$ **A.M.** & $26^{\text{th}} 4^{\text{h}} 24^{\text{m}} 6$ **P.M.**

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