

P69, Star: June 26, 1936, at about 8:05 P.M. (Zone + 8), en route Los Angeles to Honolulu, D.R. position Lat.  $33^{\circ} 30' N$ , Long.  $124^{\circ} 56' W$ , navigator observed \*Regulus for line of position. Chro.  $2^m 20^s$  fast; watch  $8^h 02^m 40^s$  slow of Chro. Ht. Eye 55 ft; Sextant read  $31^{\circ} 49'.1$  at  $8^h 04^m 10^s$  by watch.  
 Ans.  $2.7$  Toward; Zn  $263^{\circ}.8$ .

<b>G.C.T.</b> Watch $8^h 04^m 10^s$ SLOW or ADD FAST OF CHRO. $8^h 02^m 40^s$ Chro. $4^h 06^m 50^s$ C. SLOW-ADD FAST-SUB. $2^m 20^s$ G.C.T. A.M. $4^h 04^m 30^s$ 24 h Style <i>Next day</i>		<b>G.H.A.</b> $123^{\circ} 40' 5$ Corr. $-61' 10''$ ADD $75''$ $184^{\circ} 58'$		<b>Ship Nebulus</b> POSITION LINE FROM: * <b>REGULUS</b> By H.O. 211 Clock: $2008$ SET TO ZONE $+8$ Day of Week <i>Fri.</i> Date <i>6/26, 1936</i> Date at Greenwich: $27$		<b>ALTITUDES</b> Ht. of Eye $35$ Sextant $31^{\circ} 49'.1$ Index C $0$ Alt. Cor. $0$ True Alt. $31^{\circ} 49'.1$	
G.H.A. $184^{\circ} 58'$ NAME <i>W</i> D.R. Long $124^{\circ} 56'$ W		State G.H.A. as E or W or L.H.A. will not exceed $180^{\circ}$		<b>H.O. 211</b> For PLANET only V.P.M. of G.H.A. For MOON only V.P.M. of G.H.A. $14$ Parallax $14$			
L.H.A. $60^{\circ} 02'$ NAME <i>W</i> Decl. $12^{\circ} 16' 7'' N$ Decl. ( ) Corr. ( )		A <sub>1</sub> $6232$ A <sub>2</sub> $67243$ B <sub>1</sub> $1004$ B <sub>2</sub> $27377$ A <sub>3</sub> $7236$ B <sub>3</sub> $27377$ A <sub>4</sub> $39866$		SUBTRACT B <sub>3</sub> $27377$ A <sub>1</sub> $7236$ B <sub>2</sub> $660$ A <sub>2</sub> $28037$ B <sub>1</sub> $6982$ H <sub>2</sub> $31^{\circ} 55'$		INTERCEPT $2.7$	
K $23^{\circ} 32' N$ D.R. Lat. $33^{\circ} 30' N$ K ~ Lat. $9^{\circ} 58'$		Take K from top of table except when L.H.A. exceeds $90^{\circ}$ . Name K like Decl. Take Z from bottom of table except when K is same name and greater than Lat.		BY COMPASS SHIP'S COURSE NAVIGATOR <i>A.A.</i>		ON 360° ROSE Zn $263^{\circ}.8$	
AZIMUTH Z $N96^{\circ}.2 W$		SUBTRACT A <sub>7</sub> $254$		INTERCEPT $2.7$		TOWARD	

P71, Star: As in P69 except: Shortly after observing \*Regulus, observed \*Antares for line of position. Sextant read  $22^{\circ} 02'.3$  at  $8^h 06^m 55^s$  by watch.  
 Ans.  $1.1$  Toward; Zn  $146^{\circ}.9$ .

<b>G.C.T.</b> Watch $8^h 06^m 55^s$ SLOW or ADD FAST OF CHRO. $8^h 02^m 40^s$ Chro. $16^h 09^m 35^s$ C. SLOW-ADD FAST-SUB. $2^m 20^s$ G.C.T. A.M. $4^h 07^m 15^s$ 24 h Style <i>Next day</i>		<b>G.H.A.</b> $28^{\circ} 32' 2$ Corr. $-61' 55''$ ADD $38''$ $90^{\circ} 31'$		<b>Ship Nebulus</b> POSITION LINE FROM: * <b>ANTARES</b> By H.O. 211 Clock: $2007$ SET TO ZONE $+8$ Day of Week <i>Fri.</i> Date <i>6/26, 1936</i> Date at Greenwich: $27$		<b>ALTITUDES</b> Ht. of Eye $35$ Sextant $22^{\circ} 02'.3$ Index C $0$ Alt. Cor. $0$ True Alt. $22^{\circ} 02'.3$	
G.H.A. $90^{\circ} 31'$ NAME <i>W</i> D.R. Long $124^{\circ} 56'$ W		State G.H.A. as E or W or L.H.A. will not exceed $180^{\circ}$		<b>H.O. 211</b> For PLANET only V.P.M. of G.H.A. For MOON only V.P.M. of G.H.A. $14$ Parallax $14$			
L.H.A. $34^{\circ} 24' 9'' E$ Decl. $26^{\circ} 17' 7'' S$ Decl. ( ) Corr. ( )		A <sub>1</sub> $24779$ A <sub>2</sub> $35365$ B <sub>1</sub> $40742$ B <sub>2</sub> $6446$ A <sub>3</sub> $29521$ B <sub>3</sub> $28919$		SUBTRACT B <sub>3</sub> $6446$ A <sub>1</sub> $29521$ B <sub>2</sub> $36469$ A <sub>2</sub> $42915$ B <sub>1</sub> $3240$ H <sub>2</sub> $21^{\circ} 55'$		INTERCEPT $1.1$	
K $30^{\circ} 55' S$ D.R. Lat. $33^{\circ} 30' N$ K ~ Lat. $64^{\circ} 25'$		Take K from top of table except when L.H.A. exceeds $90^{\circ}$ . Name K like Decl. Take Z from bottom of table except when K is same name and greater than Lat.		BY COMPASS SHIP'S COURSE NAVIGATOR <i>A.A.</i>		ON 360° ROSE Zn $146^{\circ}.9$	
AZIMUTH Z $N146^{\circ}.9 E$		SUBTRACT A <sub>7</sub> $26281$		INTERCEPT $1.1$		TOWARD	

SIGHTS FROM D.R. POSITION BY TABLE II.

*Manual of*  
CELESTIAL  
NAVIGATION



ARTHUR A. AGETON

W