About This Workbook	After selecting Body, visualize that you are standing at the center of a 12 hour clock face and the vertical circle from your zenith passing through Body, intersects the horizon at the 12 o'clock position. Select Body, from a vertical circle that intersects the horizon at or near the 4 o'clock position, this will produce the optimum crossing angles at the intersection of the 3 circles Three Body Fix Using Intersections of Circles of Equal Altitude Three Body Fix Using Intersections of Date (Body, from a vertical circle that intersects the horizon at or near the 4 o'clock position, this will produce the optimum crossing angles at the intersection of the 3 circles Three Body Fix Using Intersections of Circles of Equal Altitude Three Body Fix Using Intersections of Circles of Equal Date (Body), from a vertical circle that intersects the horizon at or near the 4 o'clock position, this will produce the optimum crossing angles at the intersection of the 3 circles Three Body Fix Using Intersections of Circles of Equal Date (Body), from a vertical circle that intersects the horizon at or near the 4 o'clock position, this will produce the optimum crossing angles at the intersection of the 3 circles Three Body Fix Using Intersections of Circles of Equal Date (Body), from a vertical circle that intersects the horizon at or near the 4 o'clock position, this will produce the optimum crossing angles at the intersection of the 3 circles of the second of the												
Body ₁	JUPITER	GMT	4:18:14	Body 2	SPICA	¥	GMT ₂ 4:28:24	Во	ody ₃ ARCTURU	JS	GMT₃ 4:24:13		
	GHA of Body₁	167 deg.	16.1 min		GHA	of Body ₂ 102 d	g. 11.6 min			GHA of Body ₃	88 deg. 31.8 min		
	Dec of Body ₁ 18 deg. 15.3 min. N			Dec of Body ₂ 11 deg. 10.8 min. S					Dec of Bodys 19 deg. 9.9 min. N				
	Ho of Body1 43 deg. 37.6 min			Ho of Body2 27 deg. 46.5 min					Ho of Body ₃ 49 deg. 37.4 min				
	Body ₁ is W of the observer				Body ₂ is S of the observer				Sight	Body ₃ is SE of the observer			
	GP of Body ₁ Lat 18°	GP of Body ₂ Lat 11° 10.8' S Lon 102° 11.6' W				GP (GP of Body ₃ Lat 19° 09.9' N Lon 88° 31.8' W						
	Radius of the Circle of Equal Altitude 2782 n. mi.					Radius of the Circle of Equal Altitude 3733 n. mi.				Radius of the Circle of Equal Altitude 2422 n. mi.			
Observer's position determined from the intersections of Circles of Equal Altitude Observer's Latitude 48 deg. 8.5 min N Observer's Longitude 123 deg. 22.5 min W Select Intersections to Use in Calculating Fix													
tude in nautical miles is 60x(90° - Ho). When three bodies are observed, the three Equal Allitude will have six intersections. Select Intersections to Use in Calculating Fix If the sights were "accurate", three of the intersections listed below will be at or near the observer's geographic position.													
Intersed		ction 1 in Calci	ulating Fix Ye		ection 3	Use Intersection 3		Yes	Intersection 5	Use Interse	ction 5 in Calculating Fix	Yes	
	Lat 48	deg. 8	.48 min N	_	La	at 48 deg.	8.54 min	N		Lat 48	deg. 8.44 min	N	
	Body ₁ & Body ₂ Lon 123		.43 min W		Body ₁ & Body ₃ Lo		22.47 min	w	Body₂ & B	Lon 123	deg. 22.57 min	w	

Use Intersection 4 in Calculating Fix No

Lat 0 deg. 50.05 min \$

Body, & Body,
Lon 124 deg. 18.37 min W

Intersection 6

Use Intersection 6 in Calculating Fix No

Lat 16 deg. 56.40 min N

Body₂ & Body₃

Lon 46 deg. 1.52 min W

Intersection 4

Intersection 2

Use Intersection 2 in Calculating Fix No

Lat 28 deg. 6.81 min S

Body₁ & Body₂

Lon 166 deg. 32.25 min W