

Use "Nav Bodies" Worksheet to specify DR Position, Previous Fix, Date & Time

3 Body Fix from a DR Position

DR L deg. min. Date Zone Time

DR Lo deg. min.

Previous Fix L deg. min.

Previous Fix Lo deg. min.

Δ Time Since Previous Fix

Fix L deg. min.

Fix Lo deg. min.

Set deg. Drift kn

Distance Between Fixes n. mi. Distance Between DR & Fix n. mi.

Enter Data into Yellow Cells
To Clear User Data Cells Click on this Box

track and speed made good through a current

course to steer at a given speed through the water to make good a given course through a current

Track Made Good (TMG) deg. Speed Made Good (SMG) kn.

Course (C) from Previous Fix to DR deg. Speed Of Advance (SOA) kn.

Drift Angle deg. to Starboard Distance from Previous Fix to DR n. mi.

Course To Steer deg. Speed Through Water kn.

Drift Angle deg. to Port Course deg.

This Worksheet requires the Excel Solver Add-in $\psi = \text{0.004127}$ min.

Azimuth Spread deg.
Warning ... See Azimuth Spread Note

IF $\psi > 0.1$ min.
Click Here To Solve For Fix Coordinates, Set & Drift

<p>Crossing Angle of LOPs from Bodies 1 & 2 <input type="text" value="85"/> deg.</p> <p>a_1 <input type="text" value="20.10"/> n. mi. <input type="text" value="Toward"/> First Body <input type="text" value="SIRIUS"/></p> <p>Zn_1 <input type="text" value="103.38"/> deg.</p> <p>EP L₁ <input type="text" value="11"/> deg. <input type="text" value="24.65"/> min. <input type="text" value="S"/></p> <p>EP Lo₁ <input type="text" value="178"/> deg. <input type="text" value="49.95"/> min. <input type="text" value="E"/></p> <p>Intersection Between LOPs For Bodies 1 & 2</p> <p>X L_{1,2} <input type="text" value="10"/> deg. <input type="text" value="51.17"/> min. <input type="text" value="S"/></p> <p>X Lo_{1,2} <input type="text" value="178"/> deg. <input type="text" value="58.08"/> min. <input type="text" value="E"/></p> <p>$\psi_{1,2} = \text{4.32E-06}$ min.</p>	<p>Crossing Angle of LOPs from Bodies 2 & 3 <input type="text" value="40"/> deg.</p> <p>a_2 <input type="text" value="32.56"/> n. mi. <input type="text" value="Toward"/> Second Body <input type="text" value="CAPELLA"/></p> <p>Zn_2 <input type="text" value="8.44"/> deg.</p> <p>EP L₂ <input type="text" value="10"/> deg. <input type="text" value="47.79"/> min. <input type="text" value="S"/></p> <p>EP Lo₂ <input type="text" value="178"/> deg. <input type="text" value="34.87"/> min. <input type="text" value="E"/></p> <p>Intersection Between LOPs For Bodies 2 & 3</p> <p>X L_{2,3} <input type="text" value="10"/> deg. <input type="text" value="49.25"/> min. <input type="text" value="S"/></p> <p>X Lo_{2,3} <input type="text" value="178"/> deg. <input type="text" value="44.85"/> min. <input type="text" value="E"/></p> <p>$\psi_{2,3} = \text{1.21E-06}$ min.</p>	<p>Crossing Angle of LOPs from Bodies 1 & 3 <input type="text" value="55"/> deg.</p> <p>a_3 <input type="text" value="31.37"/> n. mi. <input type="text" value="Toward"/> Third Body <input type="text" value="POLLUX"/></p> <p>Zn_3 <input type="text" value="48.15"/> deg.</p> <p>EP L₃ <input type="text" value="10"/> deg. <input type="text" value="59.07"/> min. <input type="text" value="S"/></p> <p>EP Lo₃ <input type="text" value="178"/> deg. <input type="text" value="53.82"/> min. <input type="text" value="E"/></p> <p>Intersection Between LOPs For Bodies 1 & 3</p> <p>X L_{1,3} <input type="text" value="11"/> deg. <input type="text" value="1.11"/> min. <input type="text" value="S"/></p> <p>X Lo_{1,3} <input type="text" value="178"/> deg. <input type="text" value="55.66"/> min. <input type="text" value="E"/></p> <p>$\psi_{1,3} = \text{0.012377}$ min.</p>
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