

Outside fix

No errors

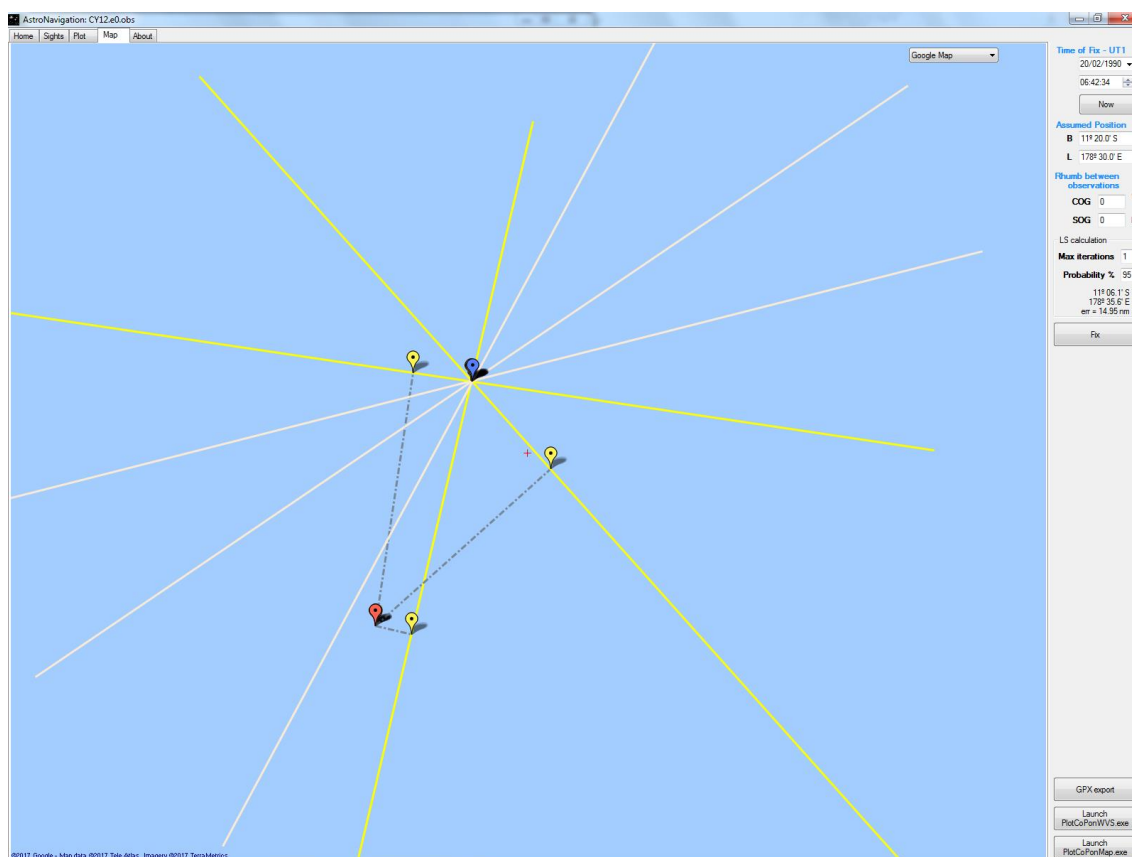
DR 20/02/1990 06:42:34 UT 11° 20.0' S 178° 30.0' E

SOG = 0

3 sights:

Date	UT	Star	GHA	Dec	Ho
20/02/1990	06:39:15	Sirius	148° 34.2'	16° 42.2' S	57° 40.6'
20/02/1990	06:40:54	Capella	171° 10.3'	45° 59.6'	32° 10.1'
20/02/1990	06:42:34	Pollux	134° 23.9'	28° 3.1'	29° 59.9'

Fix at 06:42:34 UT?

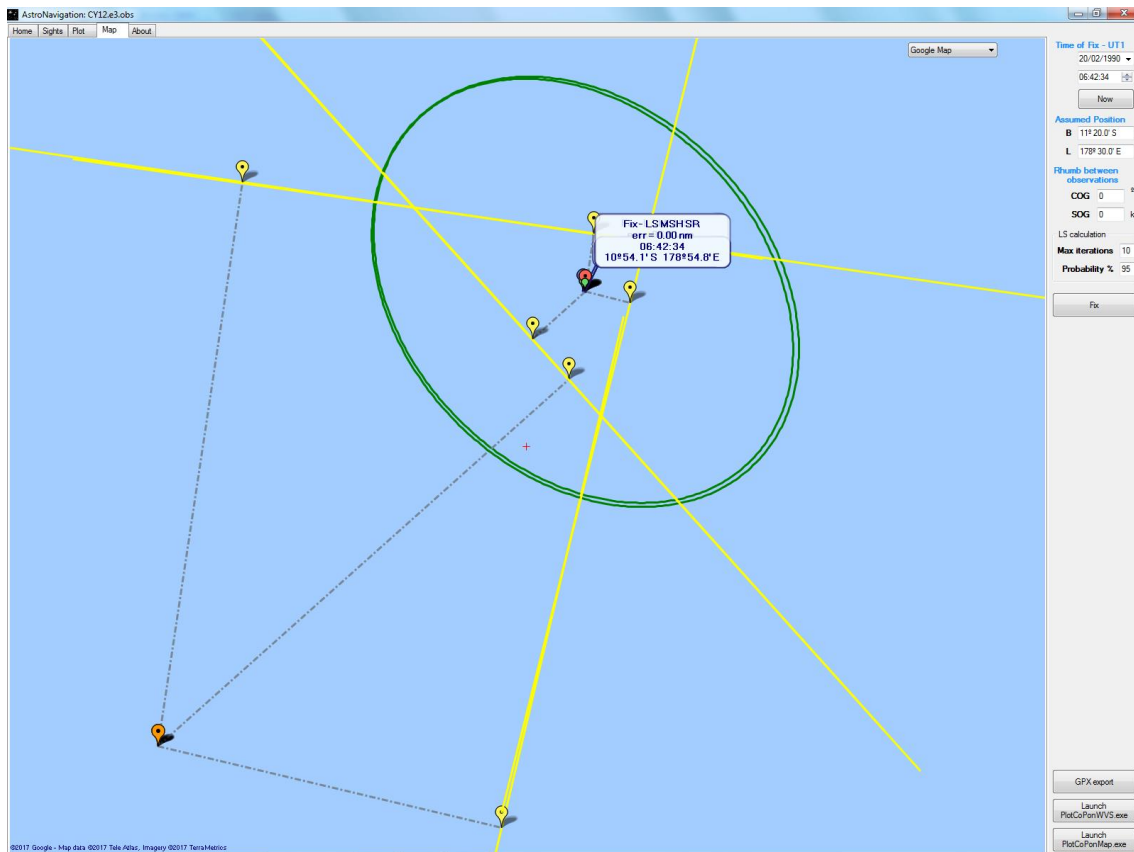


Fix: 11° 06.1' S, 178° 35.6' E

3 sights with a systematic error in Ho:

If an error of 18' is introduced to all altitudes Ho, then, the methods based on the MSH LoPs are unable to solve the problem.

Date	UT	Star	GHA	Dec	Ho
20/02/1990	06:39:15	Sirius	148° 34.2'	16° 42.2' S	57° 58.6'
20/02/1990	06:40:54	Capella	171° 10.3'	45° 59.6'	32° 28.1'
20/02/1990	06:42:34	Pollux	134° 23.9'	28° 3.1'	30° 17.9'

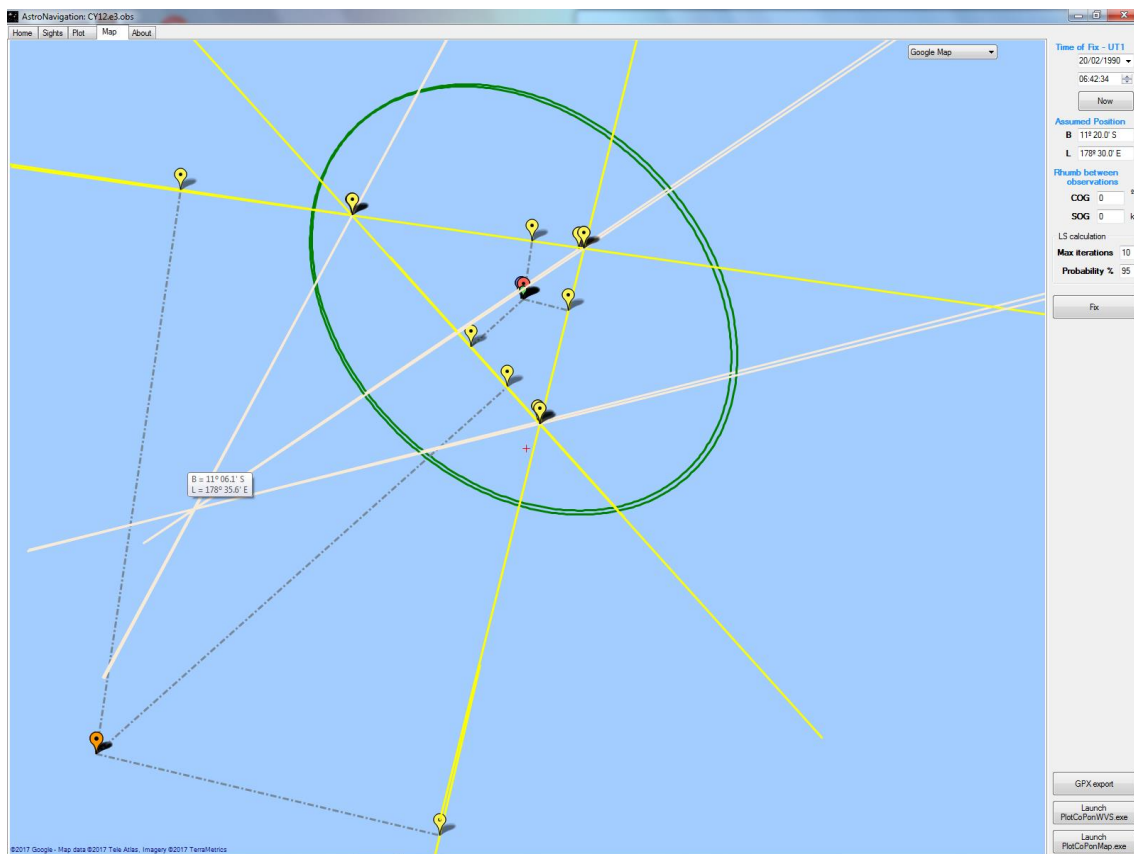


Using the LS SR method for n MSH LoPs, the solution is:

10° 54.1' S, 178° 54.8' E. (For only one iteration: 10° 54.0' S, 178° 54.7' E).

Fix by bisectors:

The fix may be obtained by using the bisectors as true lines of position.



Fix: 11° 06.1' S, 178° 35.6' E

Distance(MSH solution, Bisectors Fix) = 22.3 nm