

### Fix

Fix(14.179486742866075, 145.376643717158856) ( 14° 10.8' 145° 22.6') LopLSSR  
 Fix(14.179486068012361, 145.376641962405103) ( 14° 10.8' 145° 22.6') KaplanSR\_Bm = 0

### DeWit/USNO Nautical Almanac/Compac Data, Least squares algorithm for n LOPs

GHA	DEC	HO	BO	LO	LHA	HC	Z	p
144.3579	19.1363	22.9841	14.2180	145.3667	289.7245	22.9295	74.9296	0.0547
157.3708	-11.2083	27.9079	14.2115	145.3667	302.7374	27.8087	111.1167	0.0992
257.9478	-16.7290	37.2800	14.2031	145.3667	43.3144	37.2202	235.5894	0.0597
288.0805	27.1195	20.9756	14.1957	145.3667	73.4472	20.9543	293.9936	0.0213
280.8879	46.0088	26.6363	14.1891	145.3667	66.2546	26.5832	314.6916	0.0531

In [°]

Estimate position at time of fix:  
 Befix [deg] = 14.1833  
 Lefix [deg] = 145.3667

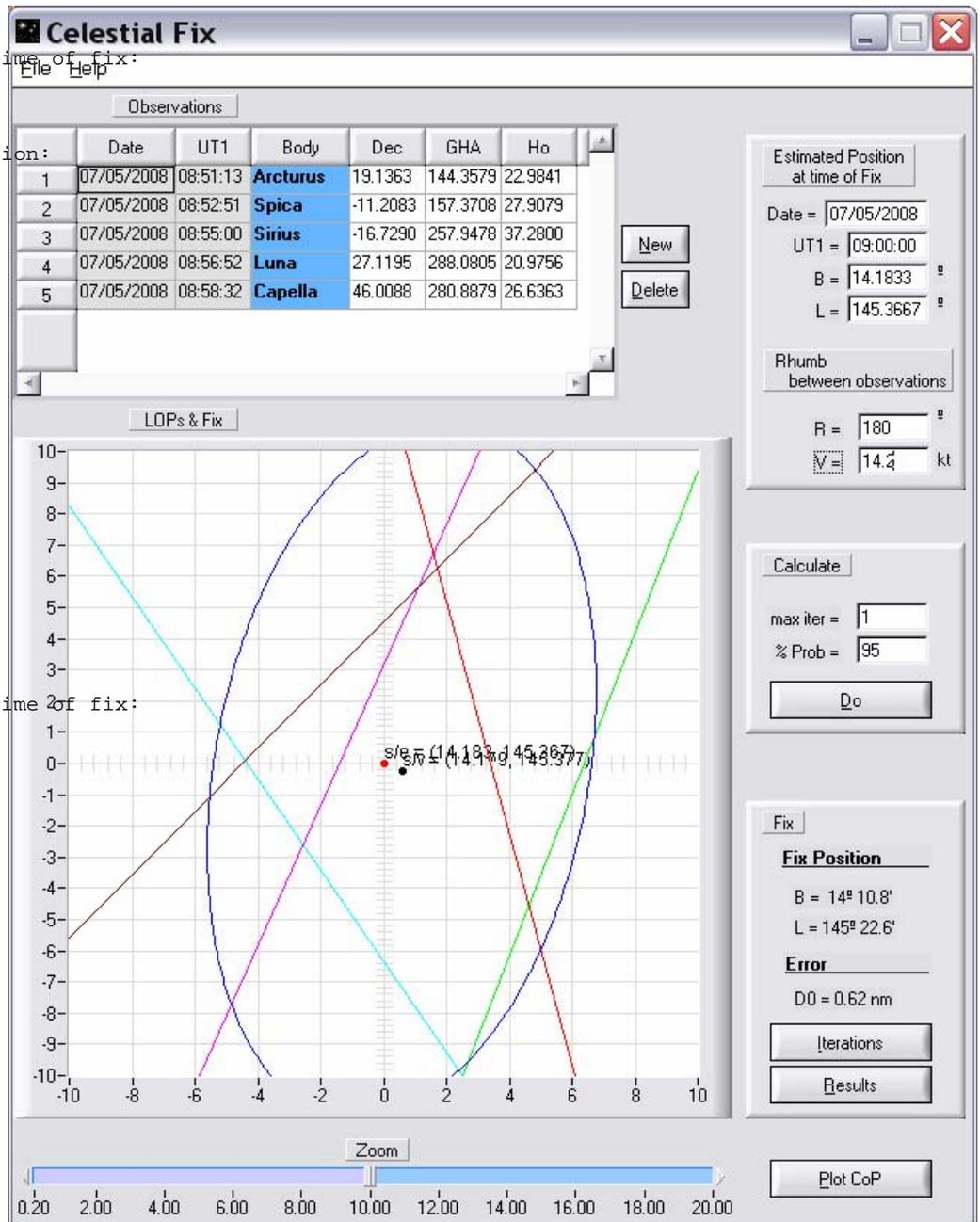
Least Squares information:  
 nObservations = 5  
 AA = 1.1767  
 BB = -0.4903  
 CC = 3.8233  
 DD = -0.0093  
 EE = 0.0389  
 FF = 0.0197  
 G = 4.2586

Error:  
 S = 0.0193  
 sigma = 4.8077 nm  
 sigmaB = 2.5272  
 sigmaL = 4.5553

Ellipse:  
 Prob = 0.9500  
 k = 2.4477  
 theta = 10.1644  
 a = 11.2778  
 b = 5.9504

Improved position at time of fix:  
 dB [deg] = -0.0038  
 dL [deg] = 0.0100  
 DO [deg] = 0.6246 nm  
 BI [deg] = 14.1795  
 LI [deg] = 145.3766

iteraciones = 1



GHA	DEC	HO	BO	LO	LHA	HC	Z	p
144.3579	19.1363	22.9841	14.2141	145.3766	289.7345	22.9378	74.9294	0.0463
157.3708	-11.2083	27.9079	14.2077	145.3766	302.7474	27.8191	111.1190	0.0888
257.9478	-16.7290	37.2800	14.1992	145.3766	43.3244	37.2144	235.5984	0.0655
288.0805	27.1195	20.9756	14.1919	145.3766	73.4571	20.9439	293.9959	0.0317
280.8879	46.0088	26.6363	14.1853	145.3766	66.2646	26.5736	314.6920	0.0627

In [°]

Estimate position at time of fix:

Befix [deg] = 14.1795

Lefix [deg] = 145.3766

Least Squares information:

nObservations = 5

AA = 1.1766

BB = -0.4904

CC = 3.8234

DD = -0.0000

EE = -0.0000

FF = 0.0193

G = 4.2583

Error:

S = 0.0193

sigma = 4.8077 nm

sigmaB = 2.5272

sigmaL = 4.5556

Ellipse:

Prob = 0.9500

k = 2.4477

theta = 10.1660

a = 11.2784

b = 5.9504

Improved position at time of fix:

dB [deg] = -0.0000

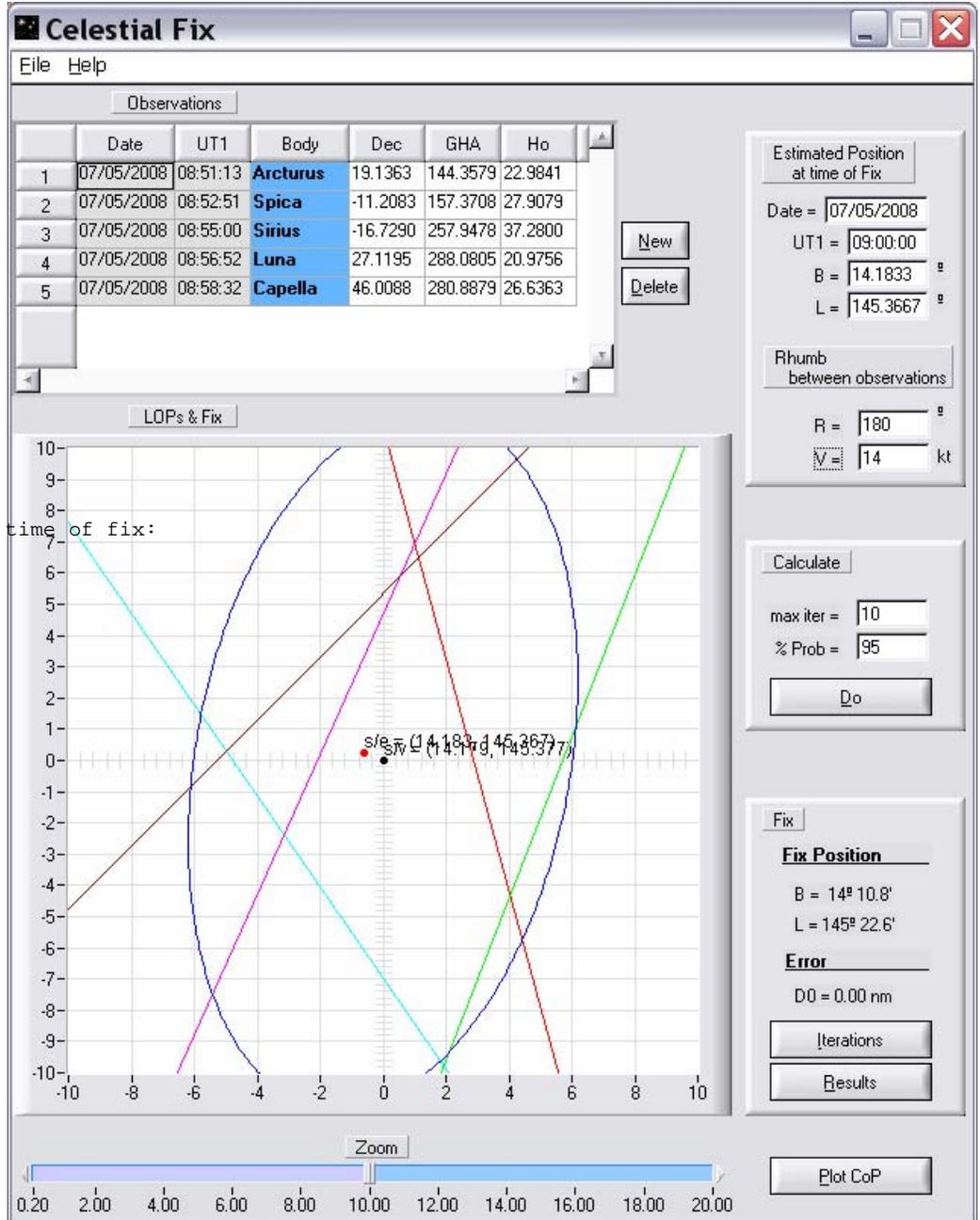
dL [deg] = -0.0000

DO [deg] = 0.0000 nm

BI [deg] = 14.1795

LI [deg] = 145.3766

iteraciones = 3



# Circles of Equal Altitude

