

# USAGE EXAMPLES

CELESTIAL NAVIGATION WITH EZALMANACONE



# USAGE EXAMPLES

FOLLOW ALONG AS WE GO THROUGH 3 EXAMPLES OF FINDING A FIX USING EZALMANACONE.

WHEN ENTERING AN ALTITUDE OBSERVATION FOR A CELESTIAL FIX, EZALMANACONE CALCULATES A VERY ACCURATE  $H_s$  VALUE USING ALL SETTINGS AND CORRECTIONS. THIS VALUE CAN BE USED TO PRESET YOUR SEXTANT BEFORE TAKING A SIGHT. THESE EXAMPLES WILL USE THE CALCULATED  $H_s$  VALUE FOR THE OBSERVED ALTITUDE, WHICH WILL RESULT IN A FIX WHICH IS VERY CLOSE TO THE STARTING DR POSITION.

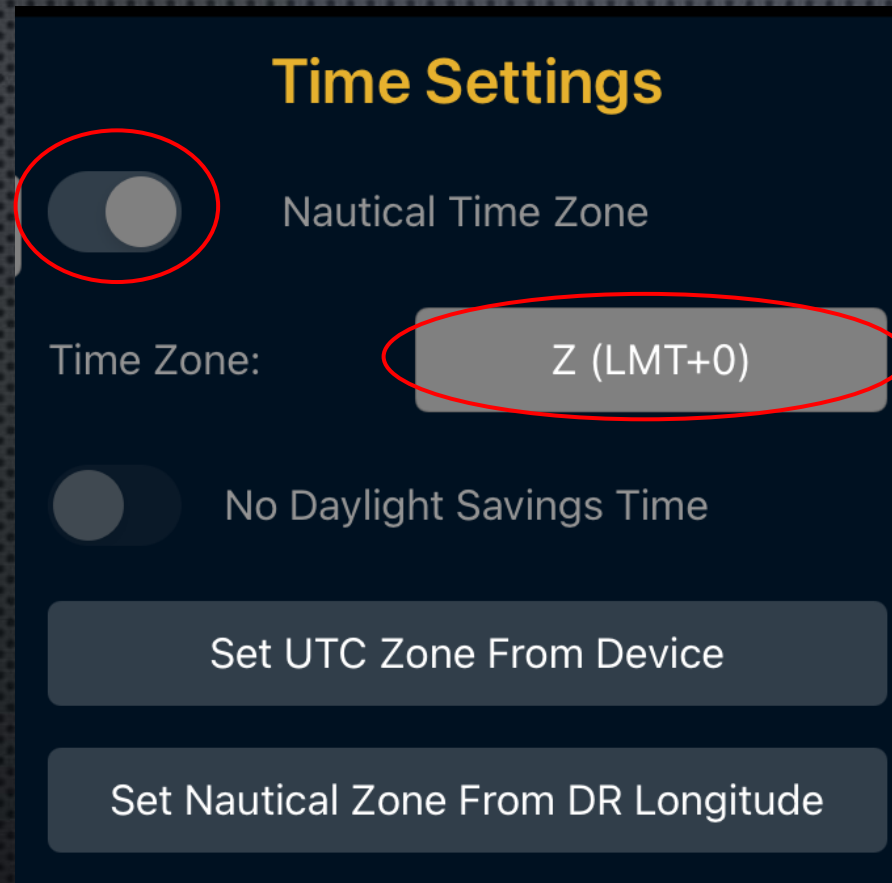
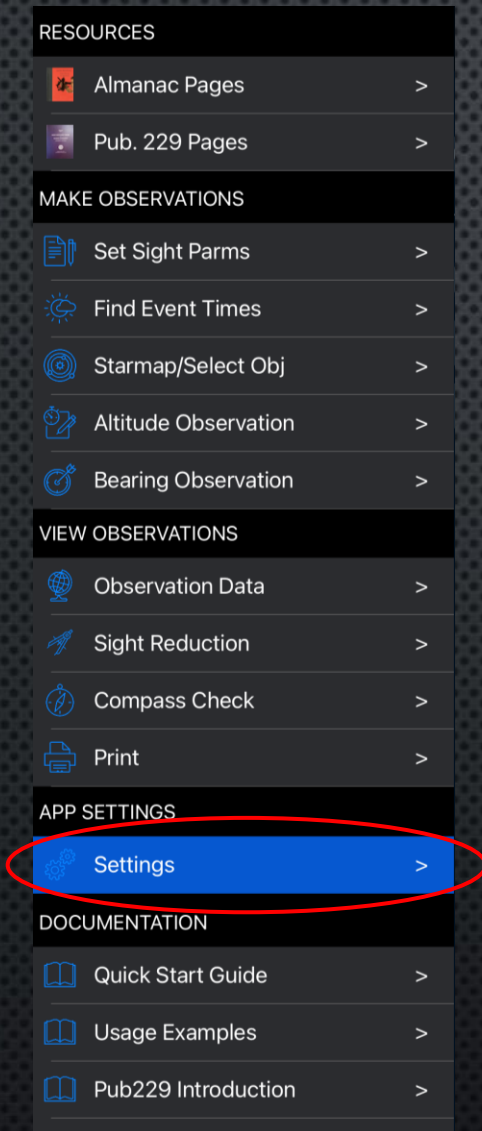
THE FIRST EXAMPLE, FOR FEB 10 2019, FINDS A FIX FROM 2 STARS, CANOPUS AND SIRIUS, AT EVENING TWILIGHT. RUNNING FIX IS NOT ACTIVE FOR THIS THIS EXAMPLE.

THE SECOND EXAMPLE, FOR FEB 11 2019, FINDS A RUNNING FIX USING THE SUN AS IT CROSSES THE MERIDIAN. THE FIX FOUND IS OFFSET FROM THE STARTING DR POSITION BY THE DISTANCE TRAVELED BETWEEN THE 2 OBSERVATIONS.

THE THIRD EXAMPLE FINDS THE USER AT THEIR CURRENT POSITION ON THE CURRENT DATE.

THESE STEPS CAN BE PRINTED OR SAVED TO A FILE FROM THE "PRINT" FUNCTION OF EZALMANACONE TO MAKE IT EASIER TO FOLLOW ALONG.

# 1. SET THE TIME ZONE



- GO TO THE "SETTINGS" SCREEN.
- SINCE THESE EXAMPLES WILL USE A DR POSITION OF LATITUDE 0, LONGITUDE 0, SET THE TIME ZONE FIELD TO 0.



## 2. SET THE DATE AND DR POSITION

**RESOURCES**

- Almanac Pages >
- Pub. 229 Pages >

**MAKE OBSERVATIONS**

- Set Sight Parms >**
- Find Event Times >
- Starmap/Select Obj >
- Altitude Observation >
- Bearing Observation >

**VIEW OBSERVATIONS**

- Observation Data >
- Sight Reduction >
- Compass Check >
- Print >

**APP SETTINGS**

- Settings >

**DOCUMENTATION**

- Quick Start Guide >
- Usage Examples >
- Pub229 Introduction >

**Date and Time**

Sunday, February 10, 2019

Clock Time: 13:00:00 Now

Clock Error: None

UTC Time:

**DR Position**

Latitude: 0° 0'

Longitude: 0° 0'

Location Svc: Get From Device

Mag. Var.:

**Running Fix Data**

Running Fix: Off

Speed: 0.0 kt

Heading: 0.0°

Mag/True: True

- GO TO THE “SET SIGHT PARMS” SCREEN.
- SET THE DATE FOR THE FIRST EXAMPLE TO 10 FEB 2019.
- SET THE DR POSITION TO LATITUDE 0, LONGITUDE 0.
- TURN RUNNING FIX OFF FOR THIS EXAMPLE.
- NO NEED TO SET OR CHANGE OTHER SIGHT PARAMETERS ON THIS PAGE FOR THIS EXAMPLE.
- THE CLOCK TIME WILL BE SET LATER WHEN WE ENTER THE OBSERVATION.



### 3. DETERMINE EVENING TWILIGHT

RESOURCES

- Almanac Pages >
- Pub. 229 Pages >

MAKE OBSERVATIONS

- Set Sight Parms >
- Find Event Times >**
- Starmap/Select Obj >
- Altitude Observation >
- Bearing Observation >

VIEW OBSERVATIONS

- Observation Data >
- Sight Reduction >
- Compass Check >
- Print >

APP SETTINGS

- Settings >

DOCUMENTATION

- Quick Start Guide >
- Usage Examples >
- Pub229 Introduction >

**Event Time Inputs**

(1) Date: 10 FEB 2019

(2) Latitude: 0° 0'

(3) Longitude: 0° 0'

(4) Zone: UTC+00:00

**Results**

(15) Event Zone: 18:39 (14) + (4)

**Sun Civil PM**

**18:39**

- GO TO THE "FIND EVENT TIMES" SCREEN.
- SET THE OBJECT TO SUN AND THE EVENT TO PM CIVIL TWILIGHT.
- PRESS THE "SELECT OBJECTS AT EVENT TIMES" BUTTON.
- AFTER PRESSING THE BUTTON YOU WILL TRANSITION TO THE STAR MAP SCREEN.

## 4. SELECT CANOPUS FOR OBSERVATION



- CLICK OR TOUCH CANOPUS ON THE STAR MAP TO SELECT IT FOR OBSERVATION.
- CLICK OR TOUCH THE "SHOOT ALT." BUTTON TO TRANSITION TO THE SHOOT SCREEN.




# 5. MAKE THE CANOPUS OBSERVATION

< Star Map / Selection Altitude Observation

Shooting Canopus from DR Pos. 0° 0' 0" 0' on 10 FEB 2019

18:39:00



29° 34.0' Hs

Observation Time

Clock Time: 18:39:00 Now

Clock Error: 0.0 Sec. Slow Edit

-0.1 +1.0 -1.0 +0.1

18:39:00

Shoot Using Device Clock

Sextant Altitude

Sextant (Hs): 29° 34.0' Calc

Index Error: 1.0' On Arc Edit

Shooting Limb: Center

Using Horizon: Sea Horizon

Declutter Day Stars Compass


Observation Conditions

Observation Period: 4 hrs

Temperature: 50.0 °F Edit


Pressure: 30.0 inHg Edit


Height of Eye: 31.0 ft Edit


Dip Correction: -5.4' 


Apparent Altitude (Ha): 29° 27.6'

Altitude Corrections

Main Alt. Corr.: -1.7' 

Ref. Non-Std: 0.0' 

Hp For Parallax: N/A 

Addl Parallax: N/A 

Observed Altitude (Ho): 29° 25.9'

Save and Review Observation

- FOR THIS EXAMPLE, WE WILL JUST STAY WITH THE OBSERVATION TIME CALCULATED BY THE FIND EVENT TIME FUNCTION, 18:39:00.
- PRESS THE “CALC” BUTTON TO CALCULATE THE HS ALTITUDE AT THIS TIME.
- PRESS THE “SAVE AND REVIEW” BUTTON TO SAVE THIS OBSERVATION AND TRANSITION TO THE “SIGHT REDUCTION”.

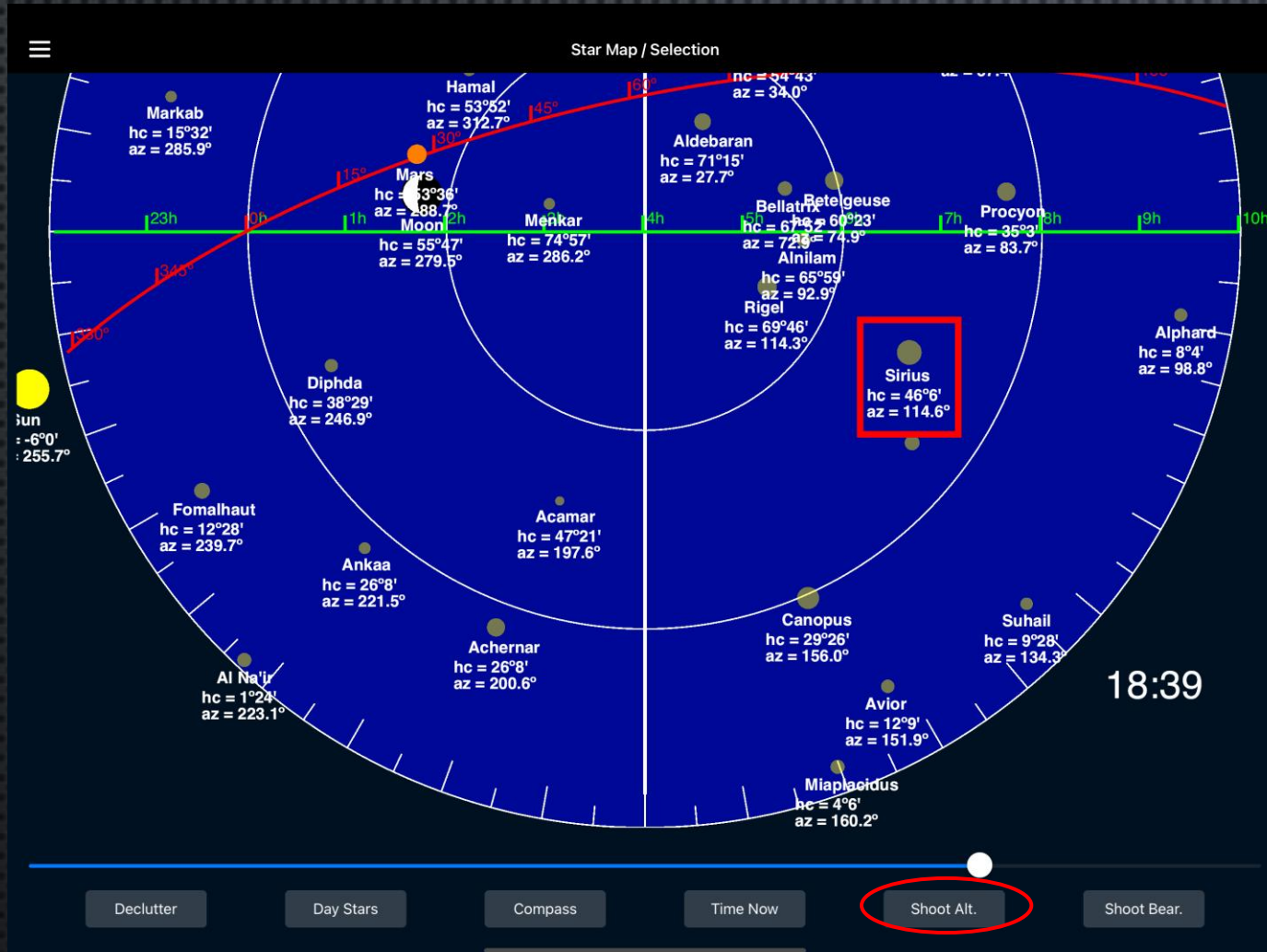
# 6. REVIEW CANOPUS REDUCTION DATA



- YOU CAN NOW REVIEW THE SIGHT REDUCTION DATA AND PLOTTED LOP FOR THE CANOPUS OBSERVATION.
- CLICK OR PRESS THE BACK BUTTON TWICE TO RETURN TO THE STAR MAP SCREEN



# 7. SELECT SIRIUS FOR OBSERVATION




- CLICK OR TOUCH SIRIUS ON THE STAR MAP TO SELECT IT FOR OBSERVATION.
- CLICK OR PRESS THE "SHOOT ALT." BUTTON TO TRANSITION TO THE SHOOT SCREEN.

# 8. MAKE SIRIUS OBSERVATION

Star Map / Selection      Altitude Observation

Shooting Sirius from DR Pos. 0° 0' 0" on 10 FEB 2019



18:39:00      46° 13.1' Hs

Declutter   Day Stars   Compass

**Observation Time**

Clock Time: 18:39:00    Now

Clock Error: 0.0 Sec. Slow    Edit

-0.1    +1.0    -1.0    +0.1

18:39:00

Shoot Using Device Clock

**Sextant Altitude**

Sextant (Hs): 46° 13.1'    Calc

Index Error: 1.0' On Arc    Edit

Shooting Limb: Center

Using Horizon: Sea Horizon

**Observation Conditions**

Observation Period: 4 hrs

Temperature: 50.0 °F    Edit

Pressure: 30.0 inHg    Edit

Height of Eye: 31.0 ft    Edit

Dip Correction: -5.4'    ✖

Apparent Altitude (Ha): 46° 6.7'

**Altitude Corrections**

Main Alt. Corr.: -0.9'    ✖

Ref. Non-Std: 0.0'    ✖

Hp For Parallax: N/A    ✖

Addl Parallax: N/A    ✖

Observed Altitude (Ho): 46° 5.8'

Save and Review Observation

- SINCE THIS IS NOT A RUNNING FIX, WE WILL AGAIN JUST STAY WITH THE OBSERVATION TIME CALCULATED BY THE FIND EVENT TIME FUNCTION, 18:39:00.
- PRESS THE “CALC” BUTTON TO CALCULATE THE HS ALTITUDE AT THIS TIME.
- PRESS THE “SAVE AND REVIEW” BUTTON TO SAVE THIS OBSERVATION AND TRANSITION TO THE “SIGHT REDUCTION” SCREEN.



# 9. ZOOM AND CLICK TO FIND THE FIX



- CLICK OR TOUCH THE SCREEN WHERE THE LINES CROSS TO MARK YOUR FIX.
- THE “RESIDUAL” IS THE DIFFERENCE BETWEEN THE FIX AND DR POSITIONS.
- CONGRATULATIONS ON YOUR FIRST FIX WITH EZALMANACONE!

# 10. SET THE DATE FOR NEXT EXAMPLE

**RESOURCES**

- Almanac Pages >
- Pub. 229 Pages >

**MAKE OBSERVATIONS**

- Set Sight Params >**
- Find Event Times >
- Starmap/Select Obj >
- Altitude Observation >
- Bearing Observation >

**VIEW OBSERVATIONS**

- Observation Data >
- Sight Reduction >
- Compass Check >
- Print >

**APP SETTINGS**

- Settings >

**DOCUMENTATION**

- Quick Start Guide >
- Usage Examples >
- Pub229 Introduction >

**Date and Time**

Monday, February 11, 2019

Clock Time: 18:39:00 Now

Clock Error: None

UTC Time:

**DR Position**

Latitude: 0° 0'

Longitude: 0° 0'

Location Svc: Get From Device

Mag. Var.:

**Running Fix Data**

Running Fix: On

Speed: 20.0 kt

Heading: 90.0°

Mag/True: True

- GO BACK TO THE “SET SIGHT PARAMETERS” SCREEN.
- SET THE DATE FOR THE NEXT EXAMPLE TO 11 FEB 2019.
- LEAVE THE DR POSITION AT LATITUDE 0, LONGITUDE 0 AS BEFORE.
- ACTIVATE RUNNING FIX FOR 20 KNOTS AT HEADING 90 DEGREES TRUE



# 11. DETERMINE THE SUN MERIDIAN TIME

RESOURCES

- Almanac Pages >
- Pub. 229 Pages >

MAKE OBSERVATIONS

- Set Sight Parms >
- Find Event Times >**
- Starmap/Select Obj >
- Altitude Observation >
- Bearing Observation >

VIEW OBSERVATIONS

- Observation Data >
- Sight Reduction >
- Compass Check >
- Print >

APP SETTINGS

- Settings >

DOCUMENTATION

- Quick Start Guide >
- Usage Examples >
- Pub229 Introduction >

**Event Time Inputs**

(1) Date: 11 FEB 2019

(2) Latitude: 0° 0'

(3) Longitude: 0° 0'

(4) Zone: UTC+00:00

**Results**

(15) Event Zone: 12:14 (14) + (4)

**Sun Meridian**

**12:14**

- IN THIS EXAMPLE WE WILL MAKE 2 SUN OBSERVATIONS – ONE AN HOUR BEFORE THE MERIDIAN TIME AND ONE AN HOUR AFTER MERIDIAN TIME
- GO TO THE “FIND EVENT TIMES” SCREEN.
- SET THE OBJECT TO SUN AND THE EVENT TO MERIDIAN.
- PRESS THE “SELECT OBJECTS AT EVENT TIME” BUTTON.

## 12. SELECT THE SUN FOR OBSERVATION



- CLICK OR TOUCH THE SUN ON THE STAR MAP TO SELECT IT FOR OBSERVATION.
- CLICK OR PRESS THE "SHOOT ALT." BUTTON TO TRANSITION TO THE SHOOT SCREEN.




# 13. MAKE SUN OBSERVATION BEFORE MERIDIAN

< Star Map / Selection

Altitude Observation

Shooting Sun from DR Pos. 0° 0' 0" on 11 FEB 2019



11:14:00

69° 22.2' Hs

133.9

Declutter Day Stars Compass

**Observation Time**

Clock Time: 11:14:00 Now

Clock Error: 0.0 Sec. Slow Edit

-0.1 +1.0 -1.0 +0.1

11:14:00

Shoot Using Device Clock

**Sextant Altitude**

Sextant (Hs): 69° 22.2' Calc

Index Error: 1.0' On Arc Edit

Shooting Limb: Lower Limb

Using Horizon: Sea Horizon

**Observation Conditions**

Observation Period: 3 hrs

Temperature: 50.0 °F Edit

Pressure: 30.0 inHg Edit

Height of Eye: 31.0 ft Edit

Dip Correction: -5.4' Edit

Apparent Altitude (Ha): 69° 15.8'

**Altitude Corrections**

Main Alt. Corr.: 15.8' Edit

Ref. Non-Std: 0.0' Edit

Hp For Parallax: N/A Edit

Addl Parallax: N/A Edit

Observed Altitude (Ho): 69° 31.6'

Save and Review Observation

- SET THE TIME TO 1 HOUR BEFORE THE MERIDIAN TIME WE JUST FOUND, 11:14:00.
- PRESS THE “CALC” BUTTON TO CALCULATE THE Hs ALTITUDE AT THIS TIME.
- SET THE OBSERVATION PERIOD TO 3 HOURS SINCE WE WILL ENTER ANOTHER OBSERVATION AFTER THE MERIDIAN.
- PRESS THE “SAVE AND REVIEW OBSERVATION” BUTTON.

# 14. REVIEW THE SUN OBSERVATION DATA



- THIS IS THE SIGHT REDUCTION DATA AND PLOTTED LOP FOR THE OBSERVATION BEFORE MERIDIAN.
- CLICK OR PRESS THE BACK BUTTON TO RETURN TO THE ALTITUDE OBSERVATION SCREEN AND MAKE THE SECOND OBSERVATION.



# 15. MAKE SUN OBSERVATION AFTER MERIDIAN

Altitude Observation

Shooting Sun from DR Pos. 0° 0' 0" on 11 FEB 2019

13:14:00

225.9

69° 28.2' Hs

Declutter Day Stars Compass

**Observation Time**

Clock Time: 13:14:00 Now

Clock Error: 0.0 Sec. Slow Edit

-0.1 +1.0 -1.0 +0.1

13:14:00

Shoot Using Device Clock

**Sextant Altitude**

Sextant (Hs): 68° 59.2' Calc

Index Error: 1.0' On Arc Edit

Shooting Limb: Lower Limb

Using Horizon: Sea Horizon

**Observation Conditions**

Observation Period: 3 hrs

Temperature: 50.0 °F Edit

Pressure: 30.0 inHg Edit

Height of Eye: 31.0 ft Edit

Dip Correction: -5.4' Edit

Apparent Altitude (Ha): 68° 52.8'

**Altitude Corrections**

Main Alt. Corr.: 15.8' Edit

Ref. Non-Std: 0.0' Edit

Hp For Parallax: N/A Edit

Addl Parallax: N/A Edit

Observed Altitude (Ho): 69° 8.6'

Save and Review Observation

- SET THE TIME TO 1 HOUR AFTER MERIDIAN, 13:14:00.
- PRESS THE “CALC” BUTTON TO CALCULATE THE Hs ALTITUDE AT THIS TIME.
- PRESS THE “SAVE AND REVIEW” BUTTON.

# 16. MAKE SUN OBSERVATION AFTER MERIDIAN

Altitude Observation

Shooting Sun from DR Pos. 0° 0' E 0° 40.0' on 11 FEB 2019

Observation Time

Clock Time: 13:14:00 Now

Clock Error: 0.0 Sec. Slow Edit

Sextant Altitude

Sextant (Hs): 68° 59.2' Calc

Index Error: 1.0' On Arc Edit

Shooting Limb: Lower Limb

Using Horizon: Sea Horizon

13:14:00

227.2

68° 59.2' Hs

13:14:00

Running Fix Active

The input data specifies that you are doing a running fix.

Do you want to calculate the altitude from the position after running 02:00:00 from the previous observation at 11:14:00?

NOTE: The DR position will be updated to the calculated position at the sight time.

NOTE: The calculation uses the the running fix speed and heading of the previous observation in the run.

No Yes

Observation Corrections

Observation Period: 15.8'

Temperature: 50.0 °F

Pressure: 30.0 inHg

Height of Eye: 31.0 ft

Dip Correction: -5.4'

Apparent Altitude (Ha): 68° 52.8'

Hp For Parallax: N/A

Addl Parallax: N/A

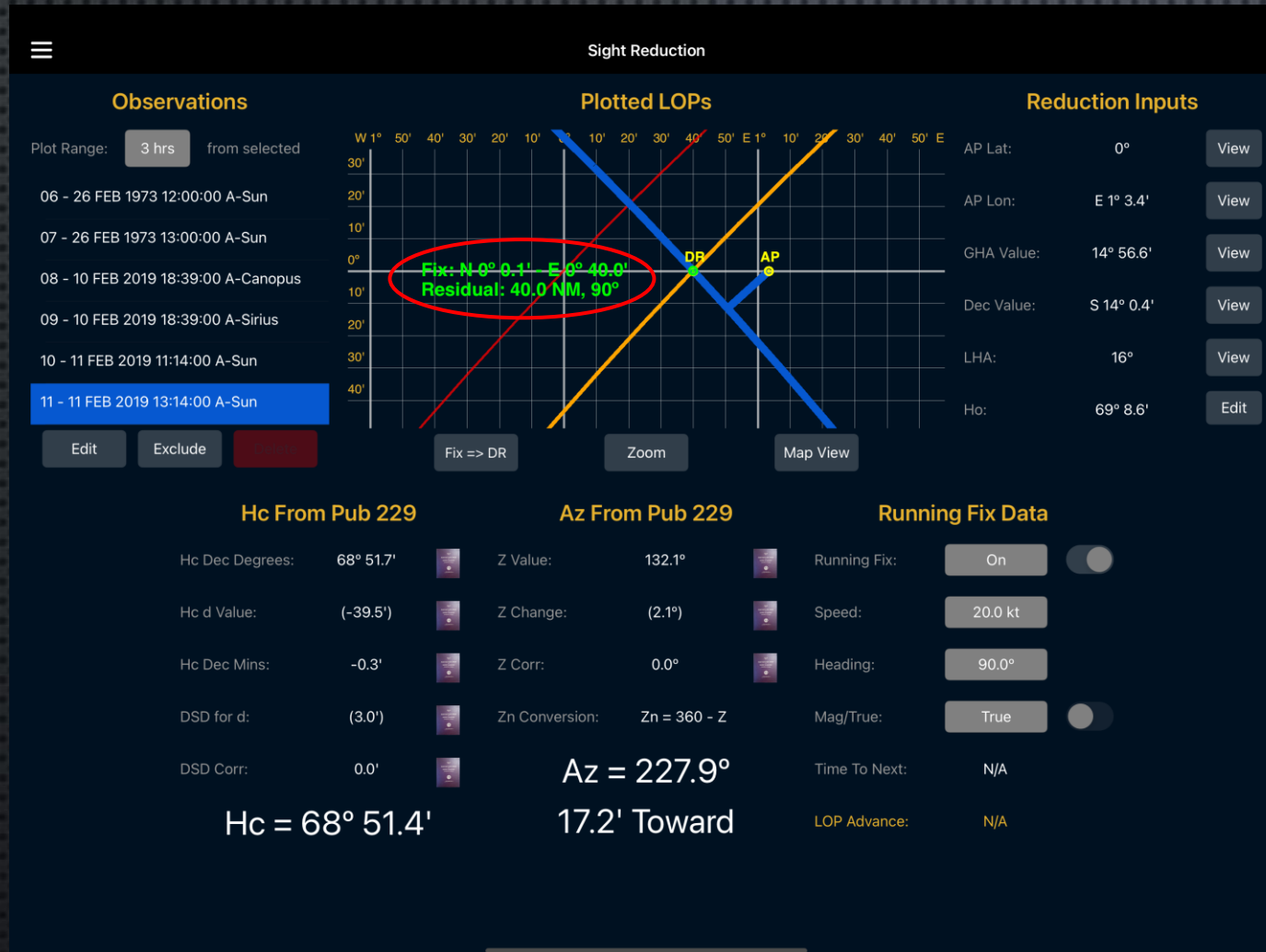
Observed Altitude (Ho): 69° 8.6'

Save and Review Observation

- WHEN ENTERING THE SIGHT AFTER MERIDIAN YOU SHOULD BE PROMPTED TO CALCULATE THE ALTITUDE FROM A PROJECTED POSITION. **SELECT YES IN THIS DIALOG.**
- IF YOU DID NOT GET THIS NOTIFICATION, CONFIRM THAT THE “OBSERVATION PERIOD” FIELD IS SET TO 3 HOURS AND THAT THE RUNNING FIX PARAMETERS WERE SET ON THE OBSERVATION ENTERED AT 11:14:00



# 17. ZOOM AND CLICK TO FIND THE FIX



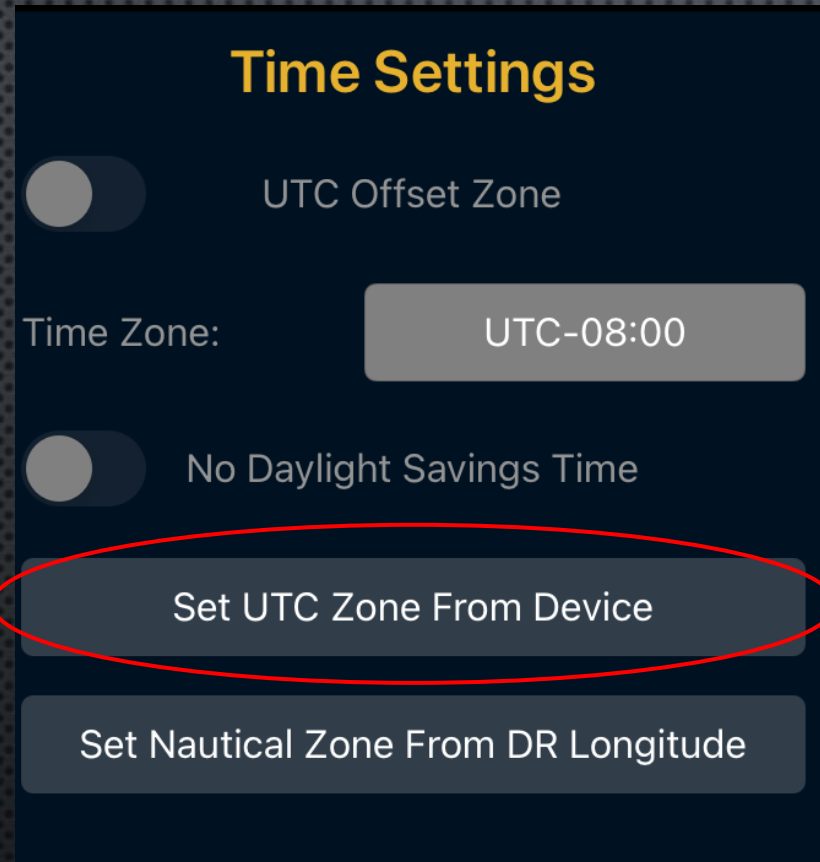
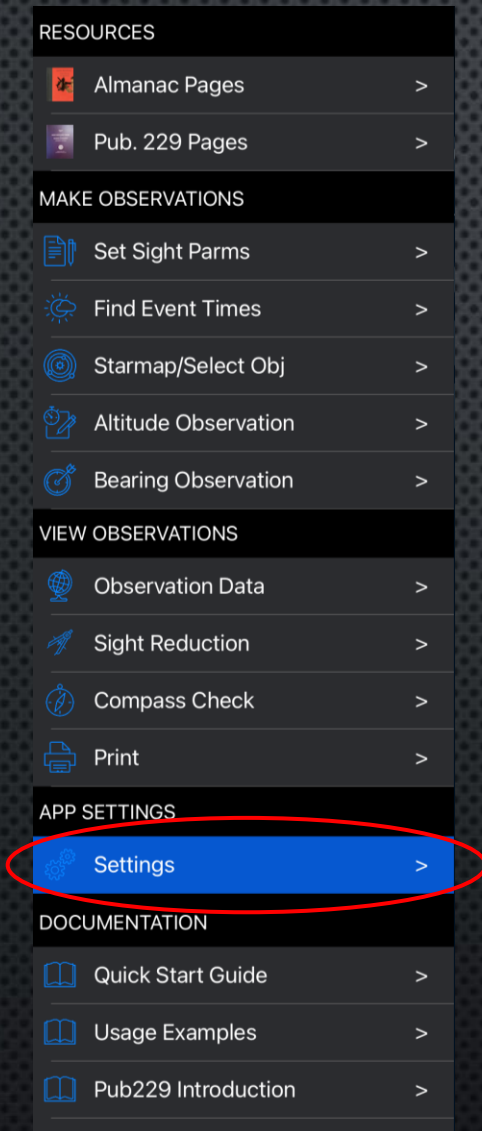
- CLICK OR TOUCH THE SCREEN WHERE THE LINES CROSS TO MARK YOUR FIX.
- THE “RESIDUAL” SHOWS THE EXPECTED RUN OF ABOUT 40 NAUTICAL MILES.
- CONGRATULATIONS ON YOUR FIRST RUNNING FIX WITH EZALMANACONE!

# FIND YOURSELF

- USE THE FOLLOWING STEPS TO FIND YOURSELF AT YOUR CURRENT LOCATION
- YOU WILL BE USING YOUR OWN POSITION, THE CURRENT DATE, AND OBJECTS THAT WILL BE VISIBLE TO YOU ON THAT DATE. THE DATA ON THE SCREENS SHOWN HERE WILL NOT MATCH WHAT YOU ARE DOING BUT THE STEPS ARE THE SAME.

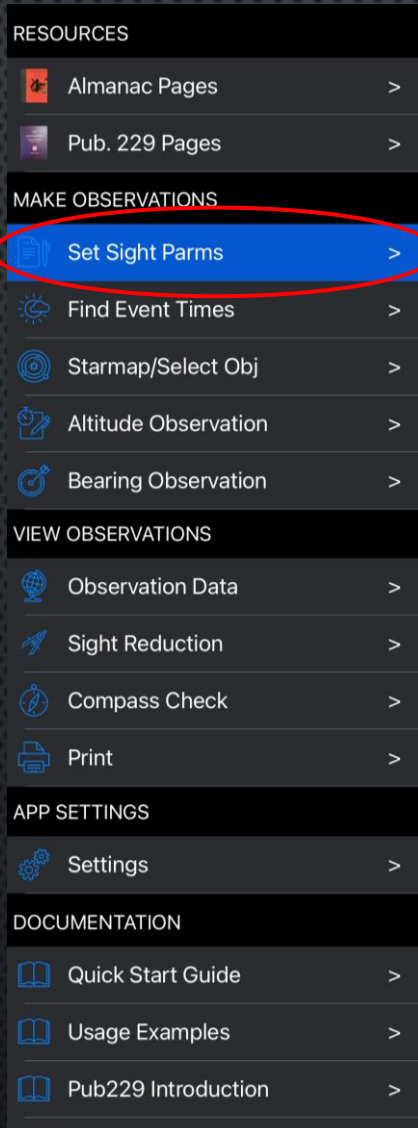


# 18. SET THE TIME ZONE



- GO TO THE "SETTINGS" SCREEN.
- SET THE TIME ZONE TO THE ZONE BEING USED BY YOUR DEVICE.

# 19. SET THE DATE AND DR POSITION


















A screenshot of the 'Sight Parameters' screen. The screen is divided into several sections: Date and Time, DR Position, Atmospheric/Height, Sextant Correction, and Running Fix Data. The 'Now' button under Date and Time and the 'Get From Device' button under DR Position are highlighted with red circles. The 'Running Fix Data' section shows the 'Off' button highlighted with a red circle. The screen displays various input fields for date, time, latitude, longitude, temperature, pressure, height of eye, sextant error, and running fix data.

- GO TO THE "SET SIGHT PARMS" SCREEN.
- PRESS THE "NOW" BUTTON TO SET THE CURRENT TIME AND DATE.
- PRESS THE "GET FROM DEVICE" BUTTON TO GET YOUR CURRENT POSITION.
- TURN RUNNING FIX OFF FOR THIS EXAMPLE.



## 20. DETERMINE EVENING TWILIGHT

RESOURCES		
	Almanac Pages	>
	Pub. 229 Pages	>
MAKE OBSERVATIONS		
	Set Sight Parm	>
	Find Event Times	>
	Starmap/Select Obj	>
	Altitude Observation	>
	Bearing Observation	>
VIEW OBSERVATIONS		
	Observation Data	>
	Sight Reduction	>
	Compass Check	>
	Print	>
APP SETTINGS		
	Settings	>
DOCUMENTATION		
	Quick Start Guide	>
	Usage Examples	>
	Pub229 Introduction	>

☰

Find Event Times

Event Time Inputs


(1) Date: 14 JAN 2021

(2) Latitude: N 33° 20.7'

(3) Longitude: W 118° 19.5'

(4) Zone: UTC-08:00

Event Graphic



Latitude Interpolation

(5) Starting: (N30) 17:48

(6) Next Lat: (N35) 17:38

(7) Table Diff: 05° -00:09 (6) - (5)

(8) Lat Diff: 3° 20.7" (2) - (5)

(9) Lat Interp: -00:06

Longitude Interpolation

(10) Next Day: N/A

(11) Day Diff: N/A (10) - (5)

(12) Lon Interp: N/A

(13) Arc to Time: 07:53

(14) Event UT: 01:35 (5,9,13)

Results

(15) Event Zone: 17:35 (14) + (4)

Sun Civil PM

17:35

- GO TO THE “FIND EVENT TIMES” SCREEN.
- SET THE OBJECT TO SUN AND THE EVENT TO PM CIVIL TWILIGHT.
- PRESS THE “SELECT OBJECTS AT EVENT TIMES” BUTTON.

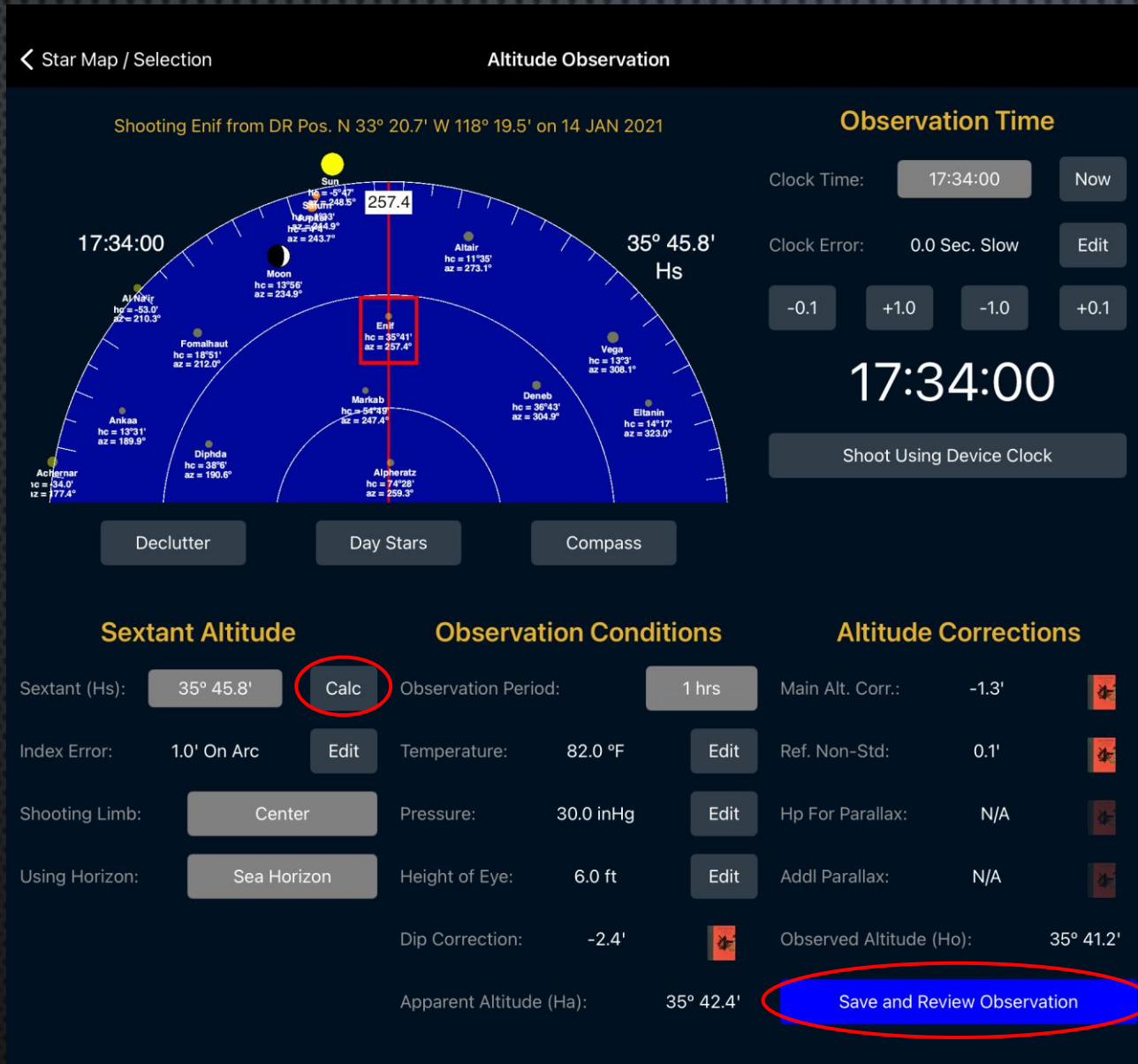
# 21. SELECT AN OBJECT FOR OBSERVATION



- CLICK OR TOUCH ANY OBJECT TO SELECT IT FOR OBSERVATION.
- CLICK OR PRESS THE "SHOOT ALT." BUTTON TO TRANSITION TO THE SHOOT SCREEN.



## 22. MAKE THE FIRST OBSERVATION



- PRESS THE “CALC” BUTTON TO CALCULATE THE HS ALTITUDE AT THIS TIME.
- PRESS THE “SAVE AND REVIEW OBSERVATION” BUTTON.

## 23. REVIEW THE FIRST OBSERVATION

< Altitude Observation

Sight Reduction

Observations

Plot Range: 1 hrs from selected

01 - 25 FEB 1973 06:09:04 A-Deneb

02 - 25 FEB 1973 06:12:05 A-Antares

03 - 25 FEB 1973 06:16:02 A-Vega

04 - 14 JAN 2021 17:34:00 A-Enif

Edit Exclude

Plotted LOPs

Fix => DR Zoom Map View

Reduction Inputs

AP Lat: N 33° View

AP Lon: W 117° 55.9' View

GHA Value: 171° 55.9' View

Dec Value: N 9° 58.2' View

LHA: 54° View

Ho: 35° 41.2' Edit

Hc From Pub 229

Az From Pub 229

Running Fix Data

Hc Dec Degrees: 34° 53.8'

Z Value: 103.0°

Running Fix: Off

Hc d Value: (33.5')

Z Change: (-1.0°)

Speed: 0.0 kt

Hc Dec Mins: 32.5'

Z Corr: -1.0°

Heading: 0.0°

DSD for d: (1.1')

Zn Conversion: Zn = 360 - Z

Mag/True: True

DSD Corr: 0.0'

Time To Next: N/A

LOP Advance: N/A

Hc = 35° 26.3'

Az = 258.0°  
14.9' Toward

- CLICK OR PRESS THE BACK BUTTON TWICE TO RETURN TO THE STAR MAP SCREEN



## 24. SELECT ANOTHER OBJECT FOR OBSERVATION



- CLICK OR TOUCH ANOTHER OBJECT TO SELECT IT FOR OBSERVATION.
- CLICK OR PRESS THE "SHOOT ALT." BUTTON TO TRANSITION TO THE SHOOT SCREEN.

# 25. MAKE THE SECOND OBSERVATION

Star Map / Selection


Altitude Observation

Shooting Diphda from DR Pos. N 33° 20.7' W 118° 19.5' on 14 JAN 2021

17:34:00

38° 10.8' Hs

190.6



Observation Time

Clock Time: 17:34:00 Now

Clock Error: 0.0 Sec. Slow Edit

-0.1

+1.0

-1.0

+0.1

17:34:00

Shoot Using Device Clock

Declutter

Day Stars

Compass

Sextant Altitude

Observation Conditions

Altitude Corrections

Sextant (Hs): 38° 10.8' **Calc**

Index Error: 1.0' On Arc Edit

Shooting Limb: Center


Using Horizon: Sea Horizon

Observation Period: 1 hrs


Temperature: 82.0 °F Edit


Pressure: 30.0 inHg Edit


Height of Eye: 6.0 ft Edit


Dip Correction: -2.4' 

Apparent Altitude (Ha): 38° 7.4'

Main Alt. Corr.: -1.2' 

Ref. Non-Std.: 0.1' 

Hp For Parallax: N/A 

Addl Parallax: N/A 

Observed Altitude (Ho): 38° 6.3'

**Save and Review Observation**

- PRESS THE “CALC” BUTTON TO CALCULATE THE HS ALTITUDE AT THIS TIME.
- PRESS THE “SAVE AND REVIEW OBSERVATION” BUTTON.



# 26. FIND YOUR FIX

Altitude Observation

Sight Reduction

Observations

Plot Range: 1 hrs from selected

01 - 25 FEB 1973 06:09:04 A-Deneb

02 - 25 FEB 1973 06:12:05 A-Antares

03 - 25 FEB 1973 06:16:02 A-Vega

04 - 14 JAN 2021 17:34:00 A-Enif

05 - 14 JAN 2021 17:34:00 A-Diphda

Edit Exclude Delete

Plotted LOPs

Fix => DR Zoom Map View

Reduction Inputs

AP Lat: N 33° View

AP Lon: W 118° 4.3' View

GHA Value: 127° 4.3' View

Dec Value: S 17° 52.5' View

LHA: 9° View

Ho: 38° 6.3' Edit

Hc From Pub 229

Az From Pub 229

Running Fix Data

Hc Dec Degrees: 39° 15.9'

Z Value: 168.9°

Running Fix: Off

Hc d Value: (-59.1')

Z Change: (0.2°)

Speed: 0.0 kt

Hc Dec Mins: -51.8'

Z Corr: 0.2°

Heading: 0.0°

DSD for d: (0.1')

Zn Conversion: Zn = 360 - Z

Mag/True: True

DSD Corr: 0.0'

Az = 190.9°

Time To Next: N/A

Hc = 38° 24.1'

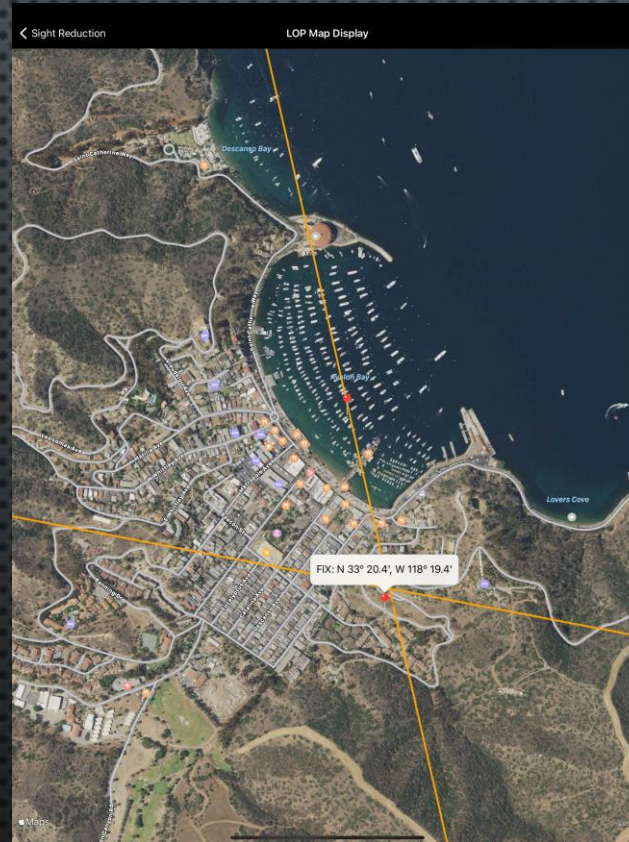
17.8' Away

LOP Advance: N/A

- CLICK OR TOUCH THE SCREEN WHERE THE LINES CROSS TO MARK YOUR FIX.
- CLICK OR PRESS THE “MAP VIEW” BUTTON TO SEE YOUR FIX ON THE MAP.



## 27. VIEW YOUR FIX ON THE MAP



- I AM IN AVALON BAY ON CATALINA ISLAND ... WHERE ARE YOU?