

# GSOB Survey Tool

PREF

033°44'20.8"N / 116°43'4.3"W 5319ft 08:25:29

MAIL

POSITION - ALTITUDE - TIME



MAP

LOG

+20

HORIZON

+22.7°

ANGLE

ELEVATION

+18.8°

ANGLE

+15

+20

AZIMUTH - BEARING

226° S46W 4018mils TRUE

ZERO

A-B

CAL

210

240

LENS

1.0X

📷 P



**The Idyllwild GSOB EWS volunteers are utilizing an interesting mobile app to help record their tree surveys. The Theodolite app (\$3.99) collects location data in conjunction with taking a picture. The picture, complete with location data, can be sent by email to the appropriate recipients. Unlike the GSOB Tracker app, it does not provide us with pictures of exit holes etc. which we need to confirm a diagnosis. However, these volunteers have been getting very good at their field assessments of GSOB attack through lots of practice.**

**(Our appreciation to Ron Perry and the other volunteers that brought this to our attention)**

Date & Time: Thu Aug 14 08:25:30 PDT 2014

Position: 033°44'20.8"N / 116°43'4.3"W

Altitude: 5319ft

Azimuth/Bearing: 226° S46W 4018mils (True)

Elevation Angle: +18.8°

Horizon Angle: +22.7°

Zoom: 1X

To open this location in Theodolite on iOS, tap here.

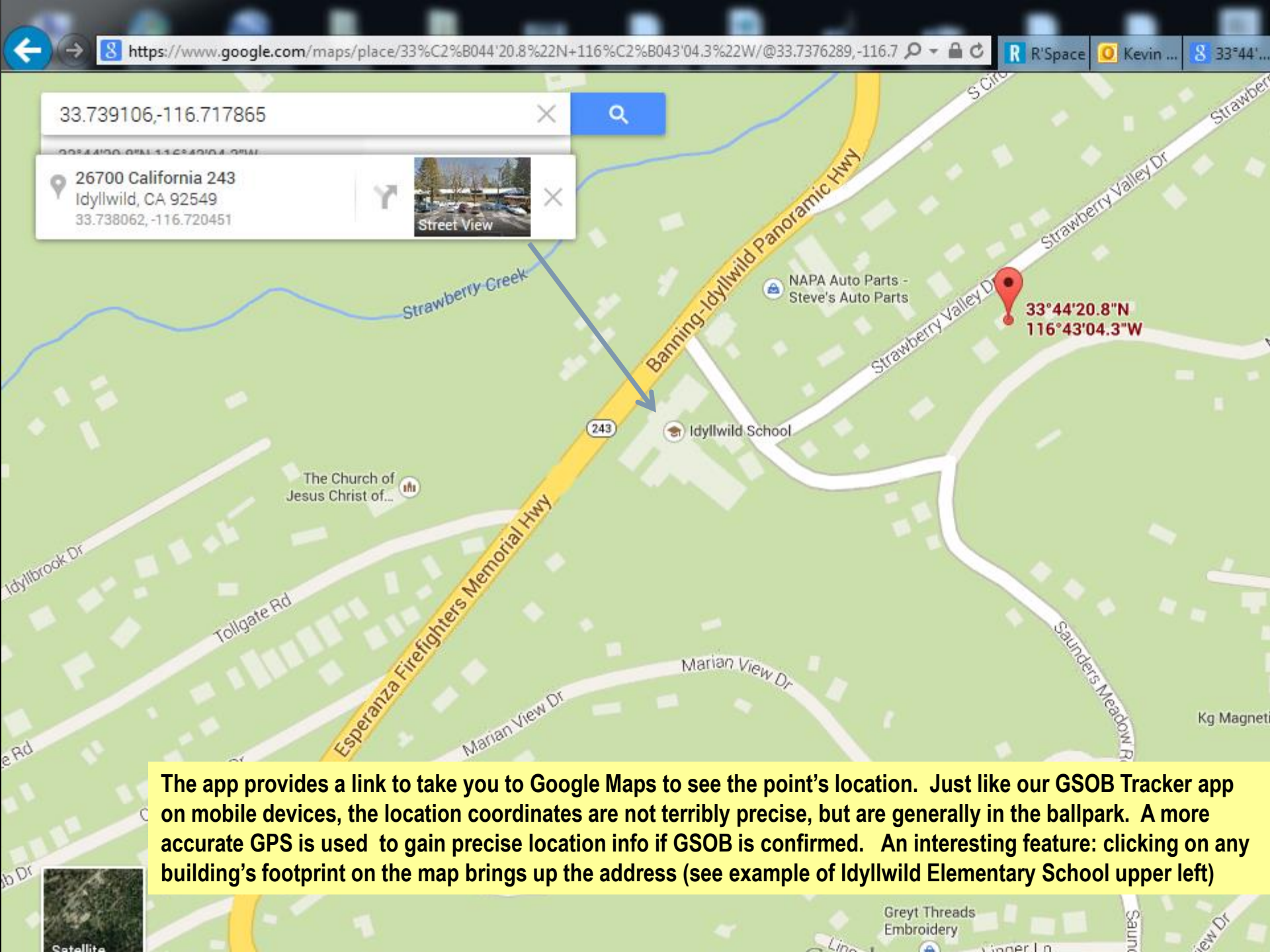
To open this location in Gaia GPS, tap here.

To view this location in Google Maps, tap/click here.

For info about Theodolite for iPhone, see Theodolite.

For info about Theodolite for iPad, see Theodolite HD.





33.739106,-116.717865

26700 California 243  
Idyllwild, CA 92549  
33.738062, -116.720451



33°44'20.8"N  
116°43'04.3"W

The app provides a link to take you to Google Maps to see the point's location. Just like our GSOB Tracker app on mobile devices, the location coordinates are not terribly precise, but are generally in the ballpark. A more accurate GPS is used to gain precise location info if GSOB is confirmed. An interesting feature: clicking on any building's footprint on the map brings up the address (see example of Idyllwild Elementary School upper left)



Add Injured Tree (# = user generated number)	#	#	#	#	#
Species?					
Diameter at 4.5'? (nearest 6 inches)					
Multiple Stems at 4.5'? (how many?)					
Crown Rating (1-4) or completely dead (D)					
Leaf Status (* applies to black oak only)					
Most leaves brown, still attached to tree					
*Most leaves green but dwarfed(< 3" long)					
Thin canopy - missing leaves					
Dead/flagging branches (% of canopy)					
*No data (winter deciduous, no leaves)					
Staining/oozing on any bark surface?					
None -Low -Moderate-High					
GSOB Emergence Holes?					
None -Low -Moderate-High					
Characteristic Woodpecker Work?					
None -Low -Moderate-High					
GSOB Larval Galleries Under Bark?					
None -Low -Moderate-High					
Status of Inspected Tree? (check one)					
Not GSOB attack - no follow up for GSOB					
Can't determine if GSOB - need follow-up					
Probable GSOB attack - need confirmation					
Definitely GSOB - advise landowner					
Unkown					
GSOB (in any lifestage) observed?					
Larvae? (blank for none or L/M/H)					
Pupae? (blank for none or L/M/H)					
Adults? (blank for none or L/M/H)					
Other/contributing causes ? (y/n)					
Pathogens? (diseases, rots, parasites, etc.)					
Other insects?					
Fire damagae					
Mechanical damage					
Polyphagous Shot Hole Borer possible?					
Submittal (these fields can be reported in a single column at the end of the day or other break point, not necessarily for each tree surveyed)					

Tree data collection form used in conjunction with the app.

The header (not shown here) at the top of the form contains owner and address information.

In the future, we hope to modify our MOM app to allow this data to be directly entered into the database with a mobile device.