



## **Lightning Report**

Written for:

The intersection of East Tangerine Road & North Oracle  
Road  
Oro Valley, AZ 11229  
May 21, 2006

Case/Claim Reference:

654321

Report Prepared For:

XYZ Insurance Company  
Attention: Charles Nelson

Veritas Weather

Phone number: 1-843-564-0058

Fax number:

Email: [weatherexpert@veritasweather.com](mailto:weatherexpert@veritasweather.com)

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## ***Report Profile***

**Date Report Prepared:** January 1, 2008

**Report Written For:** XYZ Insurance Company  
123 Cumulus Street  
Sun City, Florida 11111  
Attention: Charles Nelson

**Case/Claim Reference:** 654321

**Date of Incident:** May 21, 2006

**Time of Incident:** 3:45 PM MST

**Time Period of Analysis:** May 21, 2006 3:30-3:45 PM MST

**Incident Location:** East Tangerine Road & North Oracle Road  
Oro Valley, AZ 11229

**Search Radius:** 10 Miles

**Incident Type:** Lightning

## ***Abstract***

The National Lightning Detection Network detected 6 lightning strikes on May 21, 2006 between 3:30 PM and 3:45 PM within a 10 mile radius of the intersection of East Tangerine Road & North Oracle Road – Oro Valley, AZ 11229 (location of incident). The closest lightning strike was detected at a distance of 1.8 miles at 3:40 PM.

## *Lightning Report Decoder*

### **Lightning Strike Details Map**

This map indicates where all the lightning strikes within the search radius occurred in relationship to the search location. The color key to the right of the map indicates the time interval that the lightning strike occurred within.

### **Lightning Strike Confidence Ellipse Map**

Each lightning strike is given a confidence ellipse illustrated by the shaded ellipse surrounding each strike on the map. The confidence ellipse means that there is a 99% confidence that the lightning strike occurred within this ellipse. Each lightning strike has its own unique confidence ellipse which is determined by several factors. The confidence ellipse is the equivalent of the "margin of error" for each lightning strike.

### **Strike Details Table Ordered by Distance & Strike Details Table Ordered by Time**

Column 1 = The date of the lightning strike

Column 2 = The Time of the lightning strike

Column 3 = Peak Current of the lightning strike in KiloAmps ("+" indicates a positively charged strike and "-" indicates a negatively charged strike)

Column 4 = Distance from the search location indicated in Miles and Kilometers.

Column 5 = Latitude of the lightning strike in degree/decimal format

Column 6 = Longitude of the lightning strike in degree/decimal format

## STRIKEnet Report 161026

Claim Number: 654321  
Insured/Claimant Name: Jane Doe  
Approx. Claim/Loss Value: 5,000  
Items Damaged/Loss Type: computer, stereo, television  
Claim Address: E TANGERINE RD & N ORACLE RD  
ORO VALLEY AZ 85739 US

Search Period: May 21 2006 15:30:00 US/Arizona  
May 21 2006 15:45:00 US/Arizona

Search Radius: 10 mi/16 km around the given location.

Comments: 6 strikes were detected by the National Lightning Detection Network for the given time period and location.

# STRIKEnet Report 161026

Report Title: [Sample Report](#)

Total Lightning Strokes Detected: 6

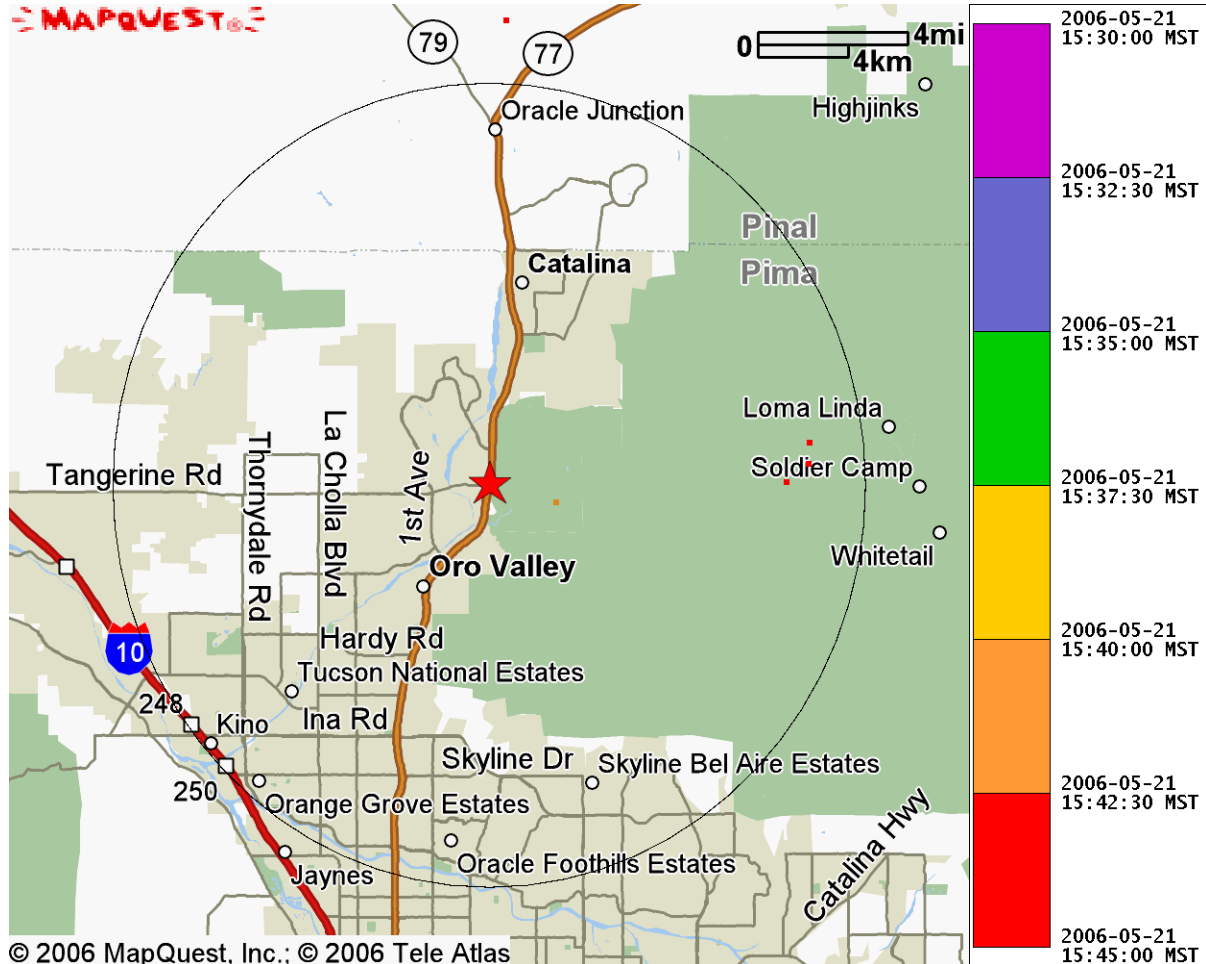
Lightning Strokes Detected within 10 mi/16 km radius: 5

Lightning Strokes Detected beyond 10 mi/16 km whose confidence ellipse overlaps the radius: 1

Search Radius: 10 mi/16 km

Time Span: [May 21 2006 15:30:00 US/Arizona](#) to [May 21 2006 15:45:00 US/Arizona](#)

## Location Points For Lightning Strokes



Lightning data provided by Vaisala's NLDN® and/or Environment Canada's CLDN.

# STRIKEnet Report 161026

Report Title: [Sample Report](#)

Total Lightning Strokes Detected: 6

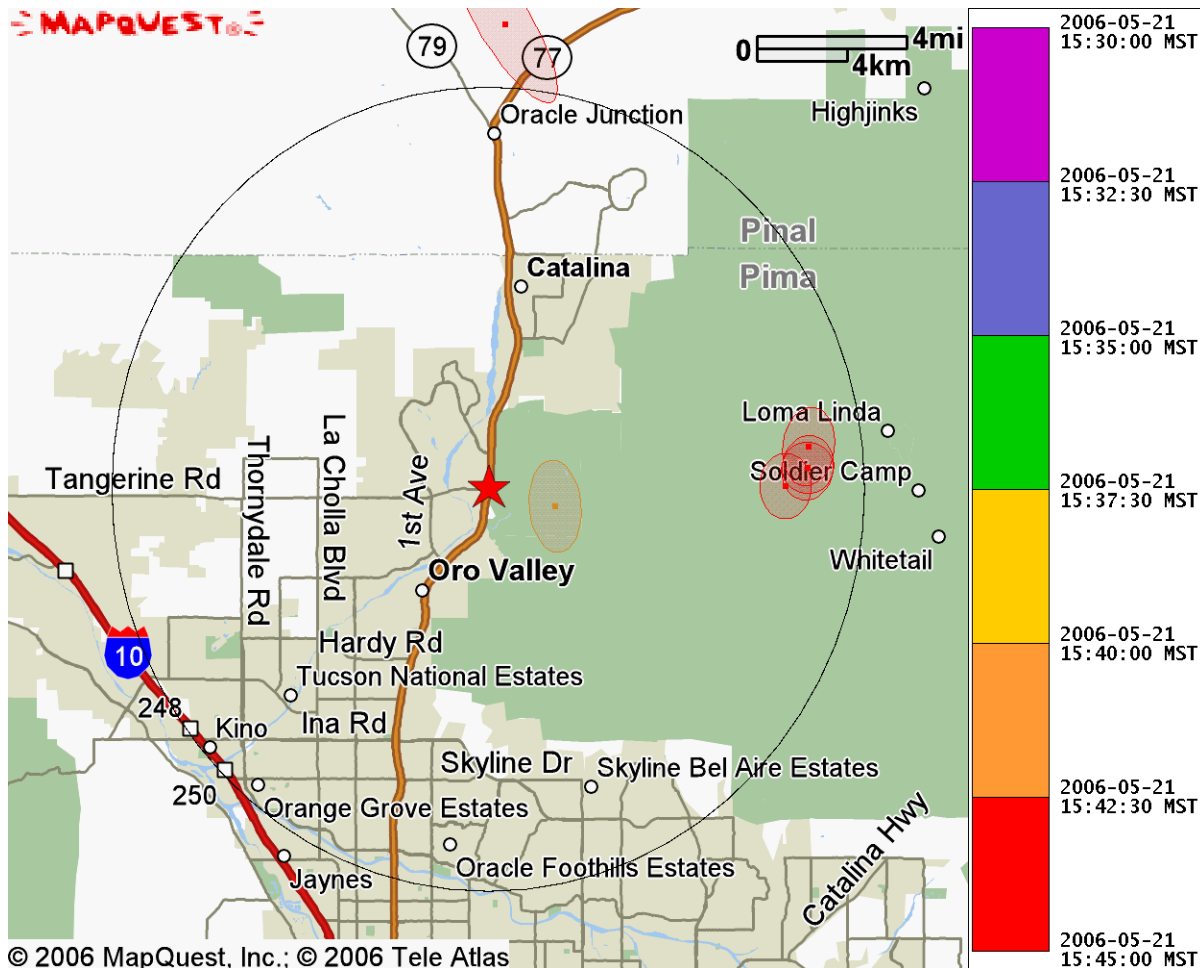
Lightning Strokes Detected within 10 mi/16 km radius: 5

Lightning Strokes Detected beyond 10 mi/16 km whose confidence ellipse overlaps the radius: 1

Search Radius: 10 mi/16 km

Time Span: [May 21 2006 15:30:00 US/Arizona](#) to [May 21 2006 15:45:00 US/Arizona](#)

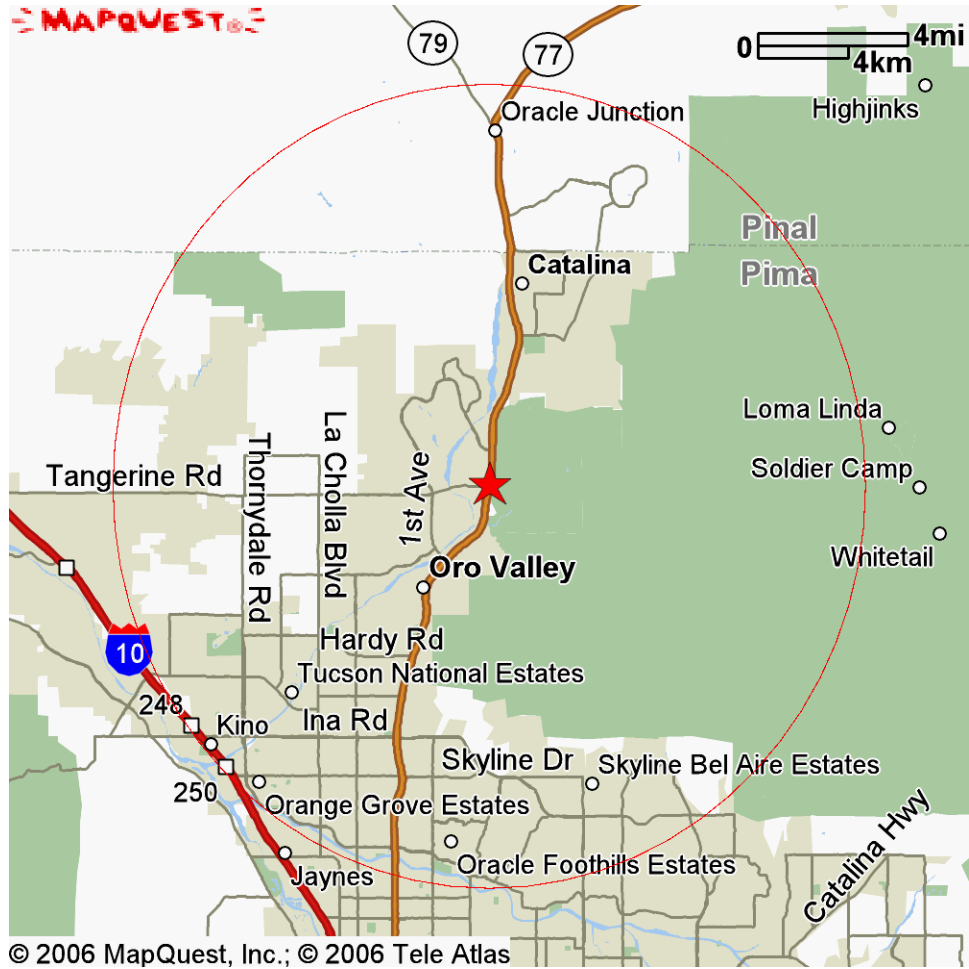
## Confidence Ellipses For Lightning Strokes



Lightning data provided by Vaisala's NLDN® and/or Environment Canada's CLDN. Note: These ellipses indicate a 99% certainty that the recorded lightning event contacted the ground within the bounds of the ellipse.

# STRIKE.net Report 161026

Area Of Study With Center Point



# STRIKENet Report 161026

Report Title: [Sample Report](#)

Total Lightning Strokes Detected: 6

Lightning Strokes Detected within 10 mi/16 km radius: 5

Lightning Strokes Detected beyond 10 mi/16 km whose confidence ellipse overlaps the radius: 1

Search Radius: [10 mi/16 km](#)

Time Span: [May 21 2006 15:30:00 US/Arizona](#) to [May 21 2006 15:45:00 US/Arizona](#)

## Lightning Stroke Table (Note: All events shown. Events ordered by time.)

Date	Time	Peak Current (kA)	Distance From Center (mi/km)	Latitude	Longitude
May 21, 2006	3:40:41 PM	-15.2	1.8/2.9	32.4209	-110.9047
May 21, 2006	3:44:37 PM	-24.8	7.8/12.6	32.4283	-110.8003
May 21, 2006	3:44:37 PM	-25.0	8.4/13.6	32.4347	-110.7904
May 21, 2006	3:44:37 PM	-51.2	8.4/13.6	32.4349	-110.7903
May 21, 2006	3:44:37 PM	-21.2	8.5/13.7	32.4425	-110.7898
May 21, 2006	3:44:37 PM	-17.4	11.5/18.5	32.5936	-110.9276

# STRIKENet Report 161026

Report Title: [Sample Report](#)

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Lightning Strokes Detected within 10 mi/16 km radius: 5

Lightning Strokes Detected beyond 10 mi/16 km whose confidence ellipse overlaps the radius: 1

Search Radius: [10 mi/16 km](#)

Time Span: [May 21 2006 15:30:00 US/Arizona](#) to [May 21 2006 15:45:00 US/Arizona](#)

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## *Conclusion*

The National Lightning Detection Network detected 6 lightning strikes on May 21, 2006 between 3:30 PM and 3:45 PM within a 10 mile radius of the intersection of East Tangerine Road & North Oracle Road – Oro Valley, AZ 11229 (location of incident). The closest lightning strike was detected at a distance of 1.8 miles at 3:40 PM.



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