

System Brief

Multi-Hazard, Multi Channel Early Warning System

Just one example of the alert types issued by EWN

40
Minutes
To run for cover.....

40 minutes is the average time provided by SMS and email alerts warning of hail

Geographic Notification and
Information System (GNIS)

AUSTRALIAN EARLY WARNING NETWORK



Introduction

This brief describes EWN's location based, multi-hazard, multi-channel early warning system. EWN also refers to this internally as a Geographic Notification and Information System (GNIS). The GNIS provides the ability to instantly and simultaneously broadcast alerts and notifications to groups and individuals. Notifications can be sent to selected locations over multiple communication mediums. The system is geographically aware, meaning those people needing the information, get it. The Graphical Information System provides the ability to use maps to accurately draw target notification areas. GIS system accuracy is within three meters, users of the system can select a country, a state or a building. Messages can then be sent across one or more of the channels described:

- Desktop ALERT™
- Mobile via SMS /pagers
- Phone (Text to voice)
- email
- Web

EWN currently uses the system to provide notification of severe weather events. This is a service that the public can register to free of charge. EWN monitors and tracks potentially dangerous weather systems and uses the network to alert people directly in the path of a storm with potential for hail, flash flooding or damaging winds. EWN receives tsunami and

AUSTRALIAN EARLY WARNING NETWORK

other types of alerts directly from Bureau of Meteorology and immediately distributes these to threatened populations.

The system launched nationally last September has proved to be an enormous operational success. The technology is highly innovative. Used on a daily basis it has sent hundreds of thousands of severe weather alerts arguably making it and its management the most experienced EW operators in the world.

Mobile Location Based Alerts

The GNIS can now locate mobile phones and alert them based on their physical location at the time. This is achieved through GPS enabled phones but within a few weeks through standard handsets by triangulating positions off cell towers for (small app downloaded to phones). Emergency responders can now also use the system to locate and track people and assets, viewing their positions in real time on the EWN mapping system.




Track and alert phones from the web interface or from your own phone

AUSTRALIAN EARLY WARNING NETWORK

The system is available to administrators and alert personnel from any web based internet connection. Notifications or alerts can be sent using one of four methods:

1. GIS
2. Group
3. Quick
4. Saved alerts



The Australian EARLY WARNING NETWORK

[HOME](#) |
 [CONTACT US](#) |
 [ABOUT US](#) |
 [INFO FOR EMERGENCY SERVICES](#) |
 [ADMIN LOGIN](#)
New! [CURRENT AND RECENT EWN ALERTS](#)

Welcome, kerry@ewn.com.au. **Logout**

- EWN Administration**
 - Send Group Alert
 - Send GIS Alert
 - Send Quick Alert
- Reporting**
 - Alerts Sent
 - Quick Alerts Sent
- Group Administration**
 - Add Group
 - Edit / Delete
 - Edit Group Members
 - [View Group Members](#)
- Members**
 - Search / Edit / Delete
 - Add Members
 - Import Members
- Super Admin**
 - Default DesktopALERT Message
 - Show/Hide Latest Alerts on Website
 - Add New Content Provider
 - Add New User to Existing Content Provider
 - Custom Banners
- Local Emergency Services**
 - CouncilAlert
- Reports**
 - Search Registrations
 - Registration Locations
 - [Stats - Registrations By State](#)
 - Stats - Registrations By Postcode
 - Group Members
 - Admin Users
 - Current Server Log
- Dailys**
 - Update GIS Locations
 - Update GIS Suburbs
- Your EWN Account**
 - Received Alerts
 - Update Your Location
 - Join Groups
 - Change Password
 - Logout

Welcome to EWN Administration.

Please [click here to send an alert.](#)

Find Location

Polygon Tools

Street

Suburb/Town

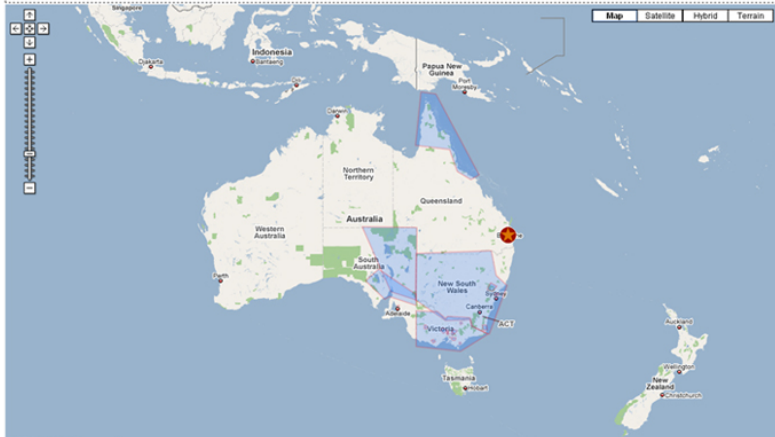
State

Country

Queensland

Australia

[Show on Map](#)
[Close / Fill Area](#)
[Remove Point](#)
[Clear Polygon](#)



500 mi
1000 km

Map data ©2009 MapData Sciences Pty Ltd, PIMA, MapData Sciences Pty Ltd, AND, Europa Technologies - Terms of Use

Description of Alert Types

GIS Alert
 A GIS alert is where an operator or alert manager selects or draws an alert area on the map. After creating the message and selecting the channels in which to send it through, everyone registered within that area will be alerted.

Group Alert
 A group alert is sent to pre-defined lists.

Quick Alert
 A quick alert is used to send to individuals or groups selected from a

Copyright © 2007 - 2008 Look Here Pty Ltd - All Rights Reserved

SENDING GROUP ALERTS

Welcome, kerry@ewn.com.au. [Logout](#)

EWN Administration

[Send Group Alert](#)
[Send GIS Alert](#)
[Send Quick Alert](#)

Reporting

[Alerts Sent](#)
[Quick Alerts Sent](#)

Group Administration

[Add Group](#)
[Edit / Delete](#)
[Edit Group Members](#)
[View Group Members](#)

Members

[Search / Edit / Delete](#)
[Add Members](#)
[Import Members](#)

This screen is used to send **Group Alerts** Starting at the top of the page, operators select how they want to send a message. DesktopALERT™ and Website are only applicable if public/emergency alerts are being sent.

The **"To:"** field is where recipients are selected. A list of the Groups available will drop down. Members of lists can belong to more than one group. The message **"Subject"** heading will appear in the subject line of DesktopALERT™, Website and email messages. **"Expires"** is used to prevent the system sending messages which have been delayed - normally left at the default of 30 mins.

The **"Status"** ranges through Red, Amber, Yellow or Advisory. This field is used for public alerting and can be left as the default of Red. The next part of the screen is the message that will be sent to the EWN DesktopALERT™, EWN Website and email.

Send Alert

Send an Alert to All Group Members

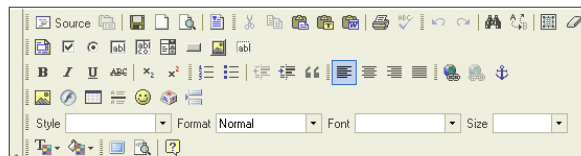
Please select how you wish to alert recipients

☒ EWN DesktopALERT ☒ SMS / Pager
☒ EWN Website ☐ Phone
☒ Email

To:	<input type="text"/>
Subject:	<input type="text"/>
Expires:	30 min
Status:	Red

Website, E-Mail and DesktopALERT Message Content

Please enter the Alert text you wish to send. This text will be shown to users with the client, displayed on the website, and sent in HTML emails.



Text is typed or copied. This is HTML so it will retain most formatting. HTML code created elsewhere can be pasted in by clicking the Source button. Click it again to see the formatted message.

SMS Message Content

Below is the alert text that will be sent to SMS recipients. (Maximum 158 characters)

SMS text is entered here. A character count is included to prevent important messages from being truncated

(Maximum 158 characters. 00 characters used. 0 remaining.)

Automated Voice Message Content

Below is the alert text that will be read out to landline recipients.

If Phone is selected, any text entered will be translated into voice when the recipient answers the phone.

Your alert will be sent to all group members in all locations.

[Preview Alert](#) [Send Alert](#)

SENDING A GIS ALERT

Using the map, you can select an area. Members in your polygon selection will be sent this alert.

Find Location

Street Suburb / Town State Country

Wingate Road Gawler River Victoria Australia

Show on Map

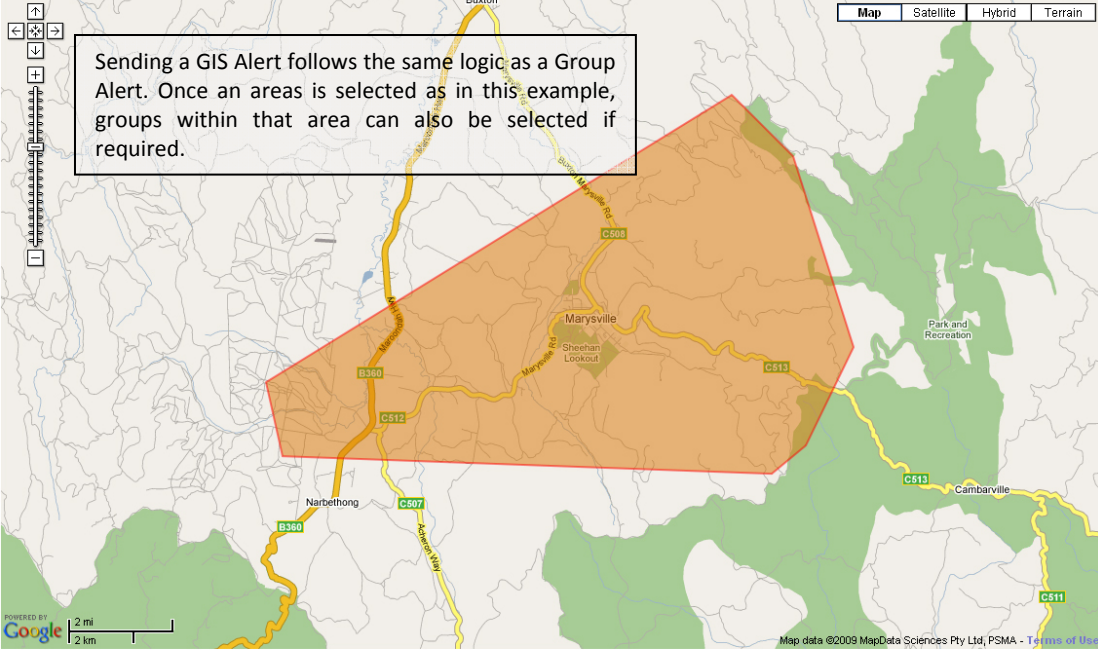
Polygon Tools

☐ Show recent polygons 48 Hours

☐ Show Weather Radars



Sending a GIS Alert follows the same logic as a Group Alert. Once an area is selected as in this example, groups within that area can also be selected if required.



3 Website, E-Mail and DesktopALERT Message Content
Please enter the Alert text you wish to send. This text will be shown to users with the client, displayed on the website, and sent in HTML emails.

Delivery

☒ EWIN DesktopALERT

☒ EWIN Website

☒ Email

To: Public

Status: Red

Subject: Bushfire Warning Message - Marysville

Expires In: 30 min

Message:



The CFS advises that a fire at Gawler River that started north of Narbethong poses a threat to public safety.

The CFS advises that a fire north of Narbethong now on the western side of the Maroondah Highway near Marysville Road poses a threat to public safety. The Narbethong fire is travelling in an Easterly direction towards Marysville.

You should take shelter in your home or shelter in a solid structure immediately. Close all doors and windows, stay inside until the fire front has passed. After the fire front has passed, you should immediately begin to check your home and extinguish anything that is burning. You should not enter or return to the area as access is restricted and the roads may not be safe.

Firefighters are attending to this fire.

4 SMS Message Content

☐ SMS / Pager

Below is the alert text that will be sent to SMS recipients.

The CFS advises that a fire at Gawler River that started north of Narbethong poses a threat to public safety. It is travelling in an Easterly direction towards Marysville.

You should take shelter in your home or shelter in a solid structure immediately. Close all doors and windows, stay inside until the fire front has passed.

(Maximum 160 characters. 00 characters used. 0 remaining.)

5 Automated Voice Message Content

☐ Phone Message

Below is the alert text that will be read out to landline recipients.

The CFS advises that a fire at Gawler River that started north of Narbethong poses a threat to public safety. It is travelling in an Easterly direction towards Marysville.

You should take shelter in your home or shelter in a solid structure immediately. Close all doors and windows, stay inside until the fire front has passed.

Sending Quick Alerts

Alerts to Individuals and Groups

Quick Alerts enables you to send notifications to individuals. Below is the Send Quick Alerts screen. This is a frequently used internal management tool which also allows text to voice to landline and mobile if required.

Quick Alert

You can send a quick alert by SMS, text-to-voice, e-mail and pagers at the same time. Enter e-mail addresses / mobile / landline phone numbers in the To: field.

Separate mobile numbers and email addresses using a semicolon ";" or comma ","

Click the "Add Members" button to add people from your address book.

To:
Add Members

Subject:

Message:

(Maximum 158 characters. 00 characters used. 0 remaining.)

Send Alert

In the 'To' entry field operators can type in mobile numbers, landline phone numbers, pager numbers and email addresses. These can be mixed so long as they are separated by a comma or semi colon. Clicking on the Add button accesses your address book - for example:

Your Address Book - Mozilla Firefox

https://www.ewn.com.au/admin/addressbook.aspx

E-mail Address
Mobile Number

Search: OR
Search
Close Window

First	Surname	Email	Mobile	Pager	Landline
Deczo		deczo@ewn.com.au			
james		james@ewn.com.au	0499111111		
nov	27	27nov@ewn.com.au			
test case	88	88@ewn.com.au			
all fields	can be blank				
Test	Case3	case3@ewn.com.au			
Test	Case4	case4@ewn.com.au			
Blank	Member	email@ewn.com.au			
Mike	O'Neill	darwinrio@bigpond.com.au	0409694157		0889312018
Whiporie	Test	garfield@ewn.com.au			
Michael	Test5	superocell@ewn.com.au	0412145710		

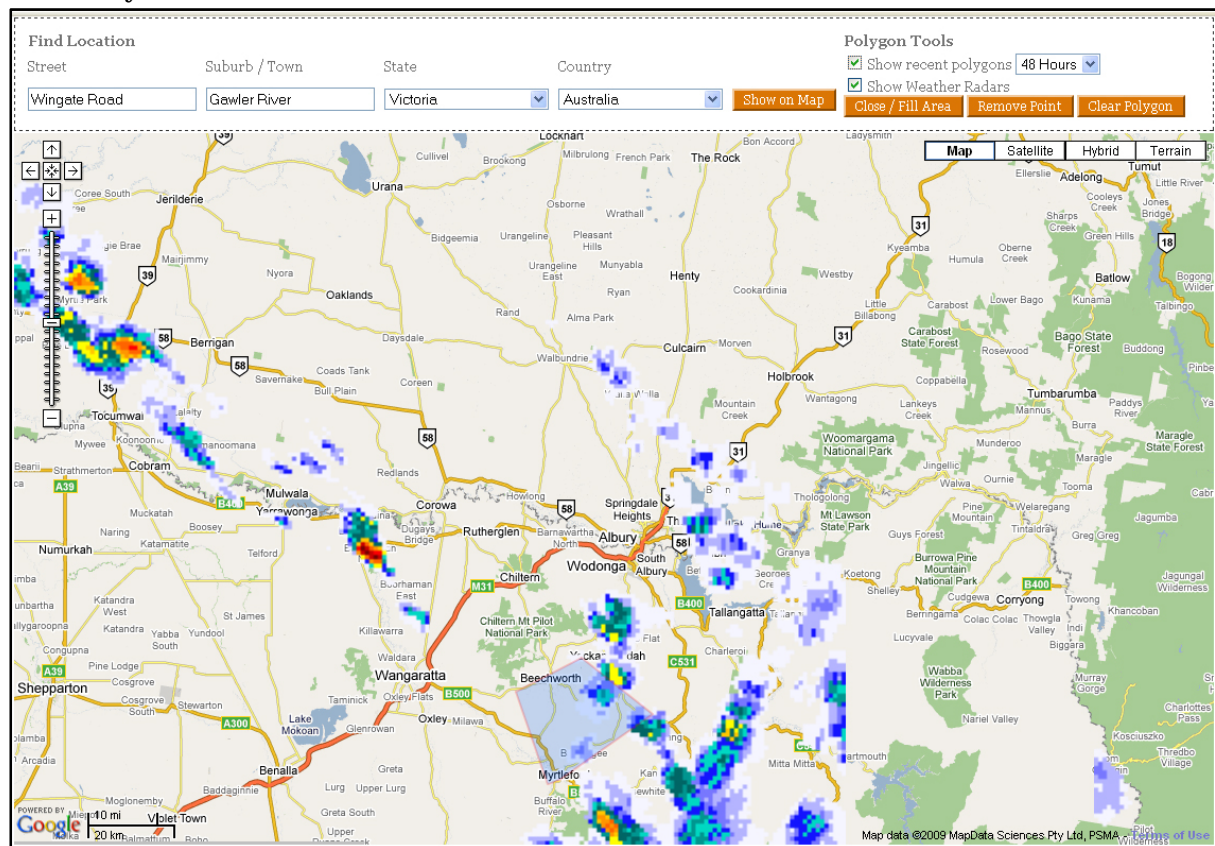
Done

When the address book pops up operators can insert numbers or email addresses by selecting the plus sign next to them. When you have selected the desired recipients the close the address book screen, enter the message and click Send Alert. Messages sent to landline numbers will be converted to voice.

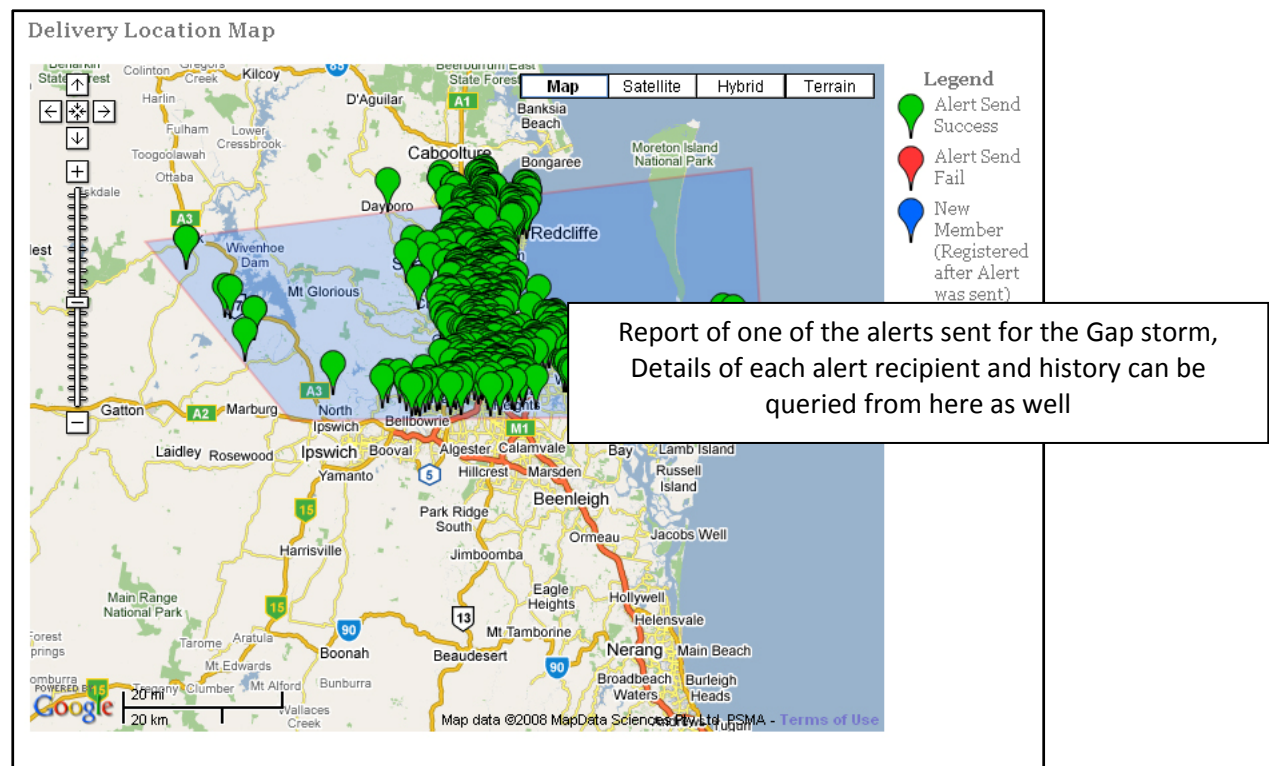
AUSTRALIAN EARLY WARNING NETWORK

Spatial Data

Spatial data can be overlaid on the GIS. Below is a radar overlay. EWN uses this to accurately alert for severe weather events.



Location data. A record of all alert history including map reports is available.



AUSTRALIAN EARLY WARNING NETWORK

REGISTERING PEOPLE TO THE SYSTEM

om Banners

nos

ouncilAlert

orts

arch Registrations

gistration Locations

ats - Registrations By State

ats - Registrations By Postcode

oup Members

min Users

urrent Server Log

rs (Julian)

odate GIS Locations

odate GIS Suburbs

EWN Account

ge Password

out

Street

Suburb / Town

Postcode

State

Country

Latitude

Longitude

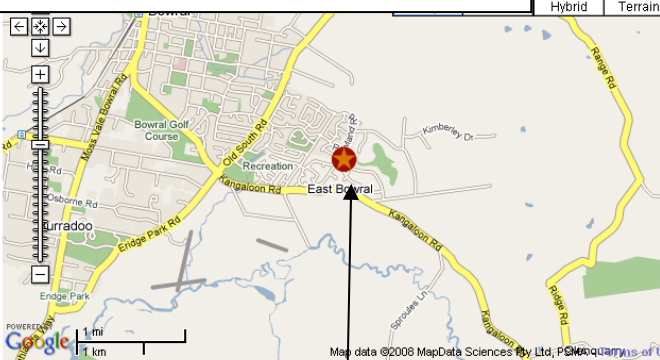
Geo-coding of address

Alert History

Here is the list of Alerts sent to this registration.

Alert Subject	Method	Sent	Success	From
NSW Severe Thunderstorm Warning: Large Hail & Damaging Winds	Email Html format	21/09/2008 11:41:07 PM	<input checked="" type="checkbox"/>	postcodes - NSW Northern Rive
NSW Severe Weather Warning: Localised Damaging Winds	Email Html format	6/10/2008 6:11:45 PM	<input checked="" type="checkbox"/>	EWN Severe Weather Alerts
NSW Severe Weather Warning: Damaging/Hazardous Winds	Email Html format	31/10/2008 11:58:55 AM	<input checked="" type="checkbox"/>	EWN Severe Weather Alerts
NSW Severe Weather Warning: Damaging Winds	Email Html format	22/11/2008 12:40:40 PM	<input checked="" type="checkbox"/>	EWN Severe Weather Alerts

Or move location manually



People can register independently or a database can be imported. The system automatically geo-codes address details.

Online Registration form

1 Login Details

Please enter your email address and a password.

Email Address

Password

Confirm Password

2 Who you are

Mr

Your First Name

Surname

3 Your Location

Use your organisation, company, or community groups street address if appropriate. We use this information to customise our service for you. We only send you Alerts for events happening in your area.

Street

Suburb / Town

Postcode

State

Country

4 SMS Alerts

Recieve FREE emergency alerts on your mobile phone when they are issued.

Mobile Number

Phone Number

☐ I agree and accept the [User License Agreement](#) and [Privacy Policy](#).

5 Optional Information

In order to help emergency services responding to an urgent situation at your home/business or near you, you can enter additional information here

Is there a pool

How many people live there

Number and type of animals

Are there any disabilities

Are there gas bottles? Please describe location

Alternate Contact Details

Information You think responders might need

6 List of Other Services In Your Area

Neighbour Hood Watch

Schools

Council

[List](#)

AUSTRALIAN EARLY WARNING NETWORK

SEVERE HAILSTORM WARNING

GREATER METROPOLITAN for LARGE HAILSTONES, DAMAGING WIND, VERY HEAVY RAINFALL and FLASH FLOODING

For people in Pittwater, Warringah and the western parts of the Sydney Metropolitan, Hawkesbury, Wyong, Blue Mountains Local Government Areas. Issued at 5:05 PM today.

The Bureau of Meteorology weather radar detected severe thunderstorms near Windsor, the Putty Road north of Colo Heights, Gosford, Hornsby, Sydney City, the Sydney Harbour Bridge, Mangrove Mountain and Katoomba. These thunderstorms are moving towards the south coast. Severe thunderstorms are forecast to affect Blacktown, Holroyd and Auburn by 6:00 PM.

THE AUSTRALIAN EARLY WARNING NETWORK

QLD Severe Thunderstorm Warning: Large Hail & Damaging Winds

Is your council taking your safety seriously?

See what EWN has offered your council free of charge to help make you safer.

[Download contents of letter here](#)

Bureau of Meteorology Warning

For people in the BRISBANE CITY, LOGAN CITY, IPSWICH CITY and parts of the GOLD COAST CITY, SOUTHERN DOWNS, SCENIC RIM and REDLAND Council Areas.

Issued at 7:28 pm Thursday, 18 December 2008.

The Bureau of Meteorology warns that, at 7:20 pm, severe thunderstorms were detected on weather radar near Harrisville. These thunderstorms are moving towards the east. They are forecast to affect Ipswich, Redbank Plains and Amberley by 7:50 pm and Brisbane CBD, Beenleigh and Logan City by 8:20 pm.

Destructive winds and large hailstones are likely.

Emergency Management Queensland advises that people should: * Move your car under cover or away from trees. * Secure loose outdoor items. * Seek shelter, preferably indoors and never under trees. * Avoid using the telephone during a thunderstorm. * Beware of fallen trees and powerlines. * For emergency assistance contact the SES on 132 500.

Child Safety Alert

Please enter the Alert text you wish to send. This text will be shown to users with the client, displayed on the website, and sent in HTML emails.

To: Terranora
Topic: Child Safety Threat
Status: Red
Subject: Child Safety Alert

Please be advised that an attempt to lure a child into a car has been made in the last five minutes on Simeoni Drive.

If anyone has seen a 1976 yellow Falcon, driven by a male, caucasian with a grey beard, please contact local police immediately.

Do not approach the vehicle or attempt to talk to the occupant as he is believed to be armed and dangerous.

Any member of the public with any information on this matter are encouraged to call and may do so anonymously.

The screen above shows how warning messages pop up on the screen after a prompt of a new alert in the sys-tray. The screen below is one of several in the desktop applications registration process.

EWN Registration

EWN Registration

Service Notification Selection

The following groups provide Alerts for your area. Please select the Groups you wish to receive Alerts from:

- ☒ General
- ☒ Severe Weather
- ☒ Schools
- ☒ Community
- ☒ Emergency
- ☒ Terror
- ☐ Essential Services
- ☐ Local Services
- ☐ National Services
- ☐ TEST

Local Services

- ☒ EWN Updates

HotKey

If your school or community group has given you a HotKey, enter it here: **Find**

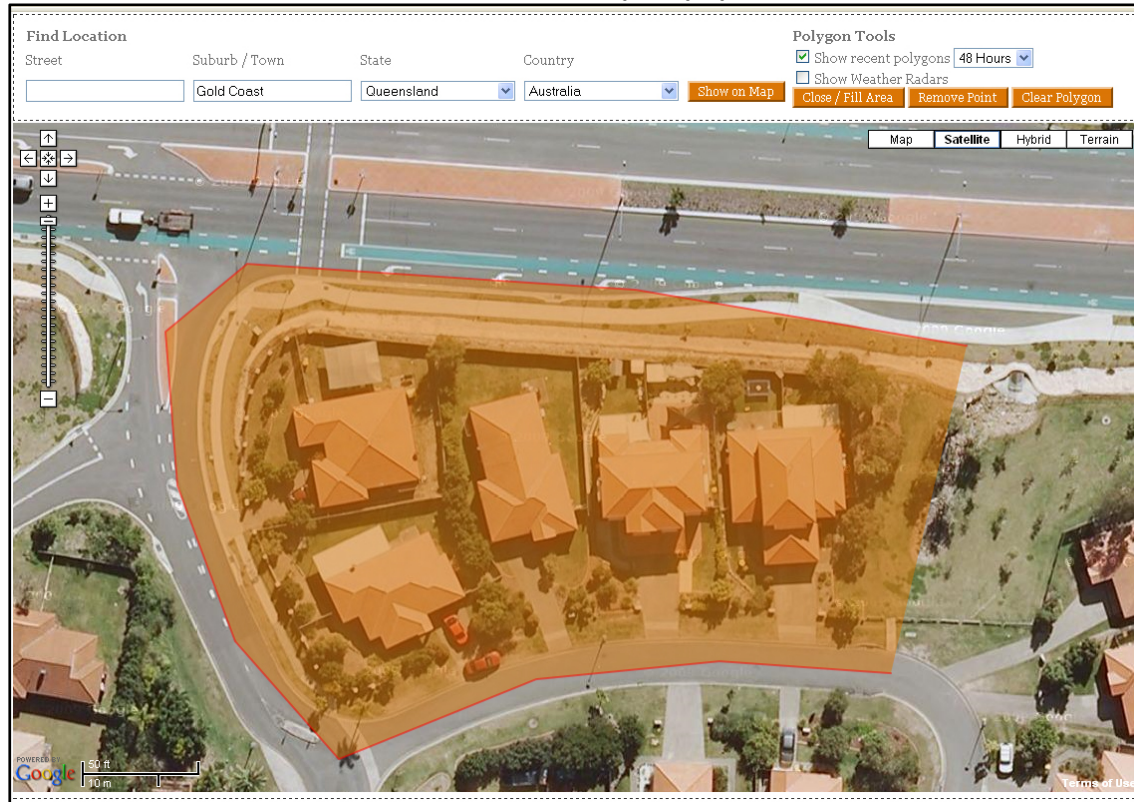
☒ Notify me when new groups become available in my area

Cancel [Privacy Policy](#) **Previous** **Next** **Finish**

Note how new members can opt to join other alert groups.

AUSTRALIAN EARLY WARNING NETWORK

One house, one street or a whole state, it is a very easy system to use.



As previously discussed; members can join online, through desktopALERT , by bulk import of details from a database or one by one – the manual method.

Add Member

Add members so you can send alerts to them. E-mail Address or Mobile Number is required so you can send alerts to that person.

First Name	
Surname	
Email Address	
Mobile Number	
Home / Work Number	
Fax Number	
Pager	

☐ Join EWN Severe Weather Alerts

Alert History

Here is the list of Alerts sent to this registration.

Once registered, for support purposes member's details can be edited/viewed. This screen extract is part of the alert history of an individual. Copies of each alert they received can be viewed as well.

Alert Subject	Method	Sent	Success	From
Hail warning	SMS	29/10/2008 11:20:21 AM	<input checked="" type="checkbox"/>	MB Testing 01
Hail warning	Email Html format	29/10/2008 11:20:22 AM	<input checked="" type="checkbox"/>	MB Testing 01
this is a test only - repeat test only	Email Html format	6/11/2008 5:42:42 PM	<input checked="" type="checkbox"/>	MB Testing 01

Street

Suburb / Town

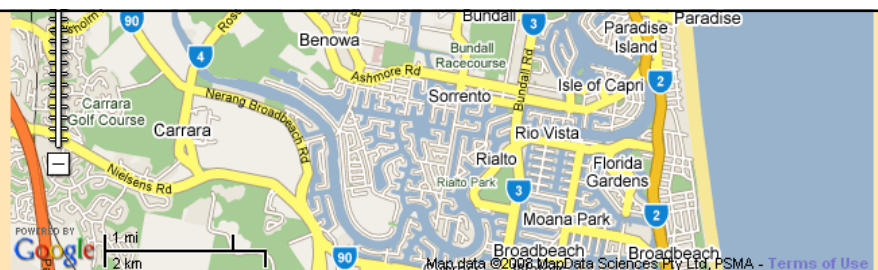
Postcode

State

Country Australia

Verify Address

Add Member





60 Seconds

To greater protection.....

The system features substantial administration and management capabilities. These details are included in the User Guide provided to administrators.

CONTACT DETAILS

Managing Director

Kerry Plowright

kerry@ewn.com.au

Phone: 07 55904173

Mobile 0403 147 197

General Manager Alerts

Michael Bath

michael@ewn.com.au

Phone: 02 6628 6902

Mobile 0412 145 710

The Australian Early Warning Network

31 Highland Drive, Tweed Heads, NSW 2486

Postal Address

The Australian Early Warning Network

31 Highland Drive, Terranora, NSW 2486

Phone: 07 55904173

Email: enquiries@ewn.com.au

Web: www.ewn.com.au