

Using eMap to convert map coordinates

Regional GIS Services
DEPI – Hume Region
February 2014

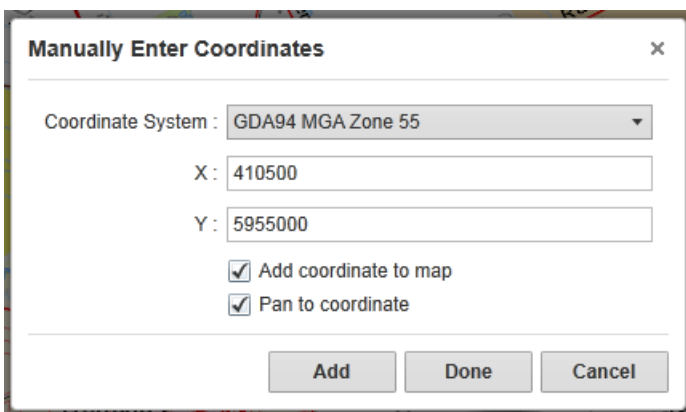
eMap Web (both Statewide Overview and Bushfire) provides the ability to convert map coordinates from one system to another.

The following coordinate systems are available for use and conversion:

- Latitude / Longitude - Decimal Degrees (DD), Degrees Minutes Seconds (DMS) and Degrees Decimal Minutes (DDM)
- GDA94 MGA – Zones 54 and 55
- VicGrid94 (shown as Default 102171)

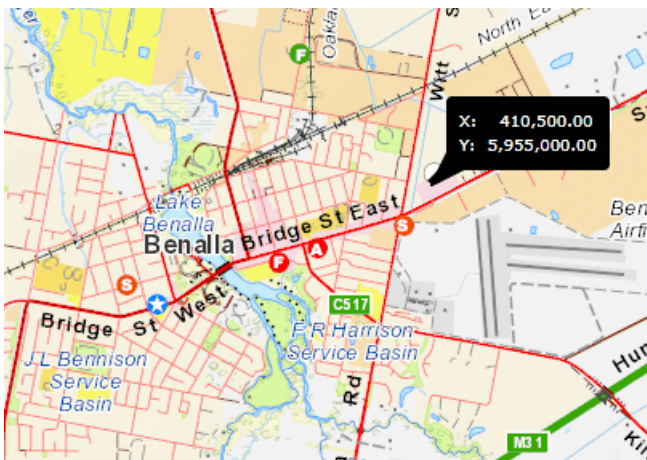
To convert full coordinates from one system to another:

- Open eMap
- Go to the 'Analysis' toolbar
- Select the 'Enter Coords' tool. This will open a new dialog box.
- Select the coordinate system of your source coordinates, enter the coordinates and click Add:

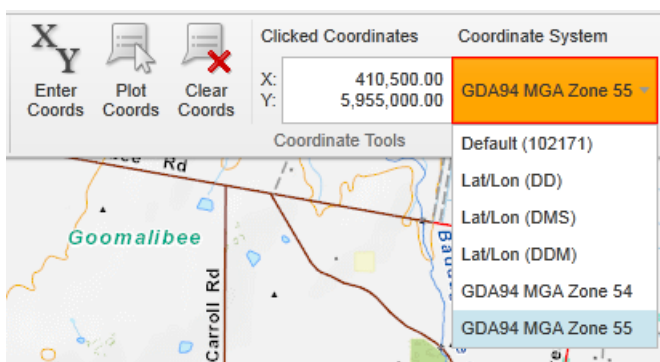


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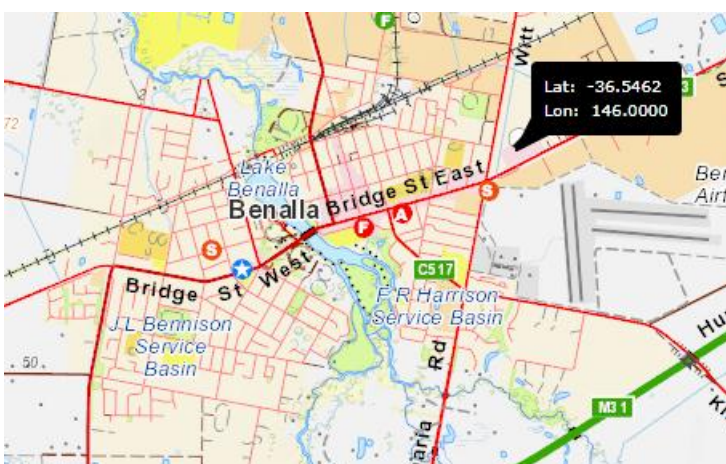
- This will draw up the location of your coordinates on the screen. Visually verify the location:



- In the Coordinate System drop-down box on the toolbar, select the coordinate system that you would like to convert the coordinates TO:



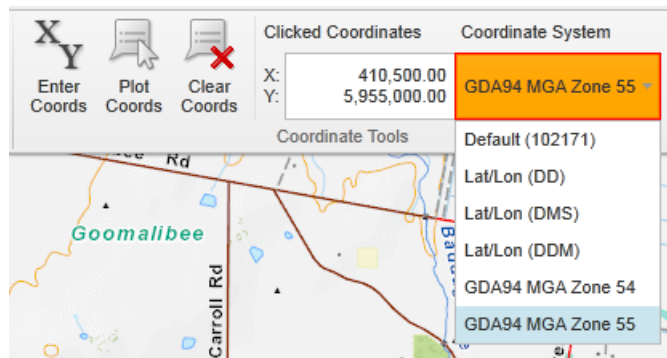
- The converted coordinates will appear on the map:



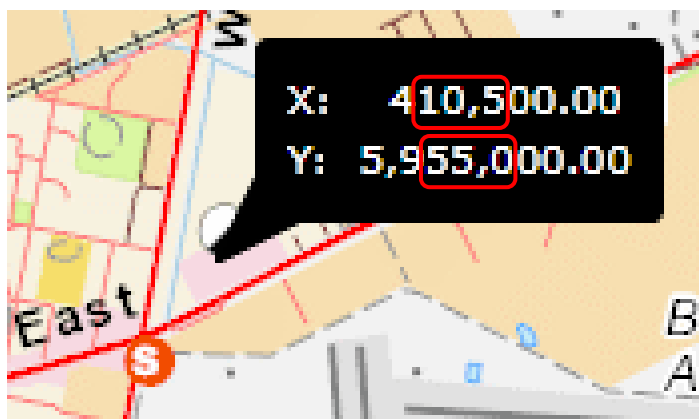
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To convert to MGRS (6 digit) from another coordinate system:

Go to the Analysis tab, and set the coordinate system to either MGA Zone 54 (west of Ballarat) or MGA Zone 55 (east of Ballarat).



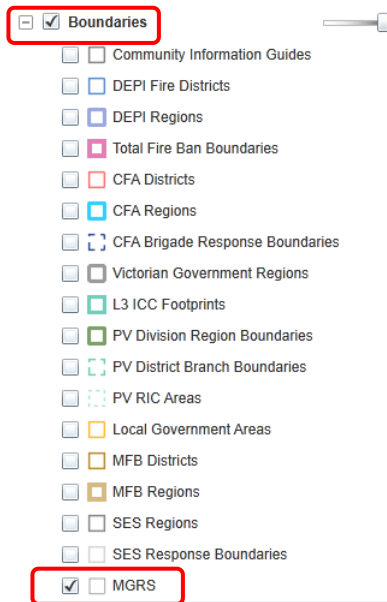
- Plot your coordinates as per the conversion process above.
- Note the coordinates and select the 5th, 4th and 3rd digits from the right hand side (excluding the decimal) as shown below:



- These six numbers form the 6 digit reference – with the x digits being the first three. The above grid reference would be **105550**.
- To determine the prefix (eg DV) for the grid reference, turn on the MGRS layer (in the Boundaries group in the Map Layers list).

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- Ensure that you have turned on the Boundaries group as well as the MGRS layer.



Zoom out until you can see the zone boundaries and label. This grid reference is in Zone DV – hence the full grid reference is DV105550.

