#### Canberra Bushwalking Club Advanced GPS and Digital Mapping Presentation 2 July 2008

#### Hardware Used

- Windows laptop
- Magellan Meridian GPS (around 4 years old)
- Data cable.

## Software Used

- OziExplorer mapping application
- GEtrax shareware for KML conversion
- Google Earth to check going.

# Data Used

- Digital maps
  - Topoview Raster 2006. Current release NSW topographic maps mainly 2<sup>nd</sup> edition 1:25000, some 1:100000 out west. The product also has a seamless mosaic of all of NSW and non-current maps (eg. 1<sup>st</sup> edition 1:25000 maps around the ACT, handy for checking out old fire trails)
  - 2. ACT Special 1:250000
  - 3. Others eg. 1:50000 maps
  - 4. Scanned maps eg. From Tasmania. Any map can be scanned and calibrated for use with OziExplorer.
- Height data Geoscience Australia 9sec DEM data.

## Planning a Walk

- 1. Draw the proposed track and save it
- 2. Set waypoints with descriptions and save them
- 3. Create a Route Card by
  - Summing the proposed track distances between waypoints (if the distance between waypoints was used, this is only a straight line distance)
  - Record the magnetic bearing between waypoints
  - Check the track profile for ups and downs
  - Check the going from map, non-current map, Google Earth
- 4. Download waypoints to GPS and save them.

## IMPORTANT – Understand what it all means.

## Executing the Walk

- 1. Leave GPS running to record actual track
- 2. Set waypoints at significant features

- 3. Navigate using map and compass and route card. Use GPS for confirmation/emergency4. Sweat or shiver, puff and pant, try not to cuss.

#### After the Walk

- 1. Upload actual track from GPS and save
- 2. Compare with planned track
- 3. Upload waypoints from GPS and save. Tidy them up
- 4. View actual track profile
- 5. Relive the joy and pain and navigational embarrassments
- 6. Use GEtrax to convert waypoints and track to KML. Use Google Earth to display and save as KMZ file.

#### Blog

Blog at http://jevans.pcug.org.au contains trip reports, pictures, KMZ files, audio podcasts, map fragments, bagging lists, links to other useful sites, things that amuse and interest me.

That's it, folks. Thanks. John Evans