




# Ellsworth Mountains Series

## 4


### Union Glacier

Scale: 1:100 000





Antarctic Logistics & Expeditions

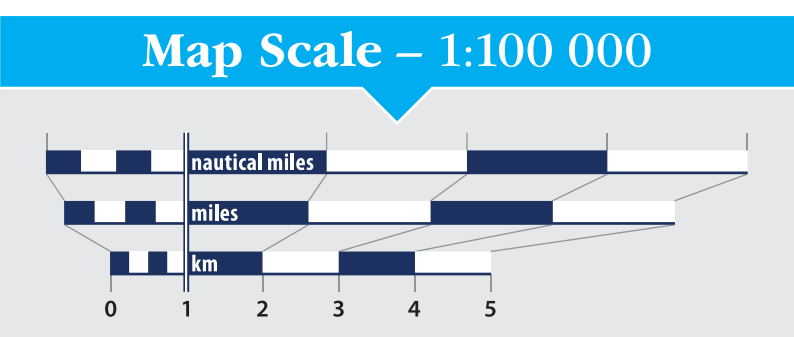


environmental research & assessment

### Map Series Location




### Map Scale – 1:100 000



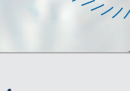
### Legend

#### Terrain


Spot Height (m)



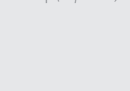
Contour (m)



Escarpment / Cliffs

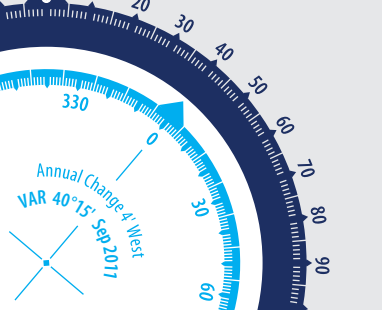


Coastline (approx)



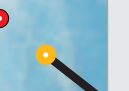
#### Declination

Magnetic declination at center of map (Sep 2011)




#### Markers


Navigation Marker



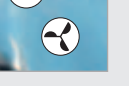
Runway Coordinate




Runway / Skiway



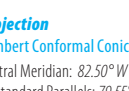
GPS Waypoint



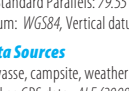
GPS Route



Campsite



Weather Station



### CAUTION

Absence of crevasses marked on this map does not imply their absence in the field. Caution is required – always check for signs of crevasses and take avoidance action. GPS fixes may not correspond precisely with features shown on the map. Coordinates, contours and spot heights are known to be inaccurate in this area, and caution is needed when interpreting positional and/or height information. This map is based on the best available data, but users should be aware that it does not conform to accuracy standards generally found on maps at this scale. The map is intended as a general guide only. This map has been prepared for use by ALE, ANI staff and contractors. Antarctic Logistics & Expeditions LLC cannot be held responsible for actions or events resulting from its use by others. Environmental Research & Assessment Ltd cannot accept any liability for injury, loss or damage arising in respect of any use of this map.

### Projection, Data & Credits

**Projection**  
Lambert Conformal Conic  
Central Meridian: 82°30'W • Latitude of Origin: 81.00°S  
• Standard Parallel: 79°35' S, 78°55' S • Natural datum: WGS84, Vertical datum: Mean Sea Level

**Data Sources**  
Crevasses, campsites, weather stations, runway, navigation markers, GPS data: ALE (2008, 2009, 2010) • Topographic data: SCAR Antarctic Digital Database v3.0 (2007) • Contour Sources: USGS, 1999 and Esri/DeLorme aerially adjusted by ERA (linear shift of 300 m, bearing 338.4°) • Spot heights: source from USGS 2,500, spatially adjusted by ERA (linear shift of 600 m, bearing 338.4°) • Background image: Landsat Image Mosaic of Antarctica (LIMA), 1987, NASA, 84S–100°S • Magnetic declination: National Geophysical Data Center: [www.ngdc.noaa.gov/gemmag/geom/decl.shtml](http://www.ngdc.noaa.gov/gemmag/geom/decl.shtml) (v1.0) (Sep 2011)

**Credits**  
Cartography: Environmental Research & Assessment, Cambridge, UK ([www.era.org.uk](http://www.era.org.uk))  
Graphic Design: [www.up-ides.com](http://www.up-ides.com)  
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