

Standards for GIS data using GPS collection devices

1. Data must be provided in the New Brunswick Double Stereographic Grid Projection using the NAD 83 datum.
2. Data must be provided in either ArcInfo shapefile or coverage format.
3. All GPS points must be differentially corrected and the accuracy of points must be within 5meters of the actual location.
4. The GPS system should be verified at a New Brunswick survey monument at least once a year:
 - a. Survey monuments can be found on Service New Brunswick's web site at www.snb.ca
 - b. Several Data points should be collected at the survey monument
 - c. The points should be differentially corrected with each of the base stations that you will be using to do differential correction
 - d. Each set of corrected points should be exported to a shapefile or coverage in NB Double Stereographic Grid Projection using the NAD 83 datum.
 - e. The exported coordinates should be compared to the NB Double Stereographic Grid Projection using the NAD 83 datum coordinates for the appropriate monument.
5. GPS settings must conform to the following values (a sample listing for the Trimble Geo 3 is attached)

Variable	Setting
DOP mask	6 (Geo2-max 8; Geo3-max 7)
SNR mask	5
Elev. Mask	15
Min. satellites	4
Position mode	3D
Distance	Meters
Area	Hectares
Speed	Km/h
Angle	Degrees