Differential Correction of Shapefiles

Program: Trimble GPS Pathfinder – *Differential Correction*

1- Start the program and add the **.ssf** file (usually there is only 1)
2- Most of the default settings work just fine, but watch that:
   - Automatic carrier & code processing – checked
   - Under H-Star Processing, choose Use Multiple Base Providers.
       o Click Select to Define Base Provider Group
       o Click "new" to give the group the name Southeast Idaho
       o Click the + symbol, add:
          CORS Pocatello, Idaho State University the GIS Center, UNAVCO Idaho Falls (both of them), UNAVCO Atomic city, CORS Monsanto-soda springs, UNAVCO Holbrook, CORS gtrg_ebry
   - Output folder – usually the same as the input folder
3- The program creates a **.cor** file that will be used in the next step as you step through the wizard

Program: Trimble GPS Pathfinder – *ShapeCorrect*

1- Create a copy of the shapefile to be corrected (I usually append "corrected" to the end)
2- Open the program and browse to the "corrected" shapefile
3- For the output option select "corrected only"

   Note: If any errors occurred causing you to perform several iterations of differential correction/shape correct, then you will have more than one *.cor file. Note that only the original *.cor file will be used by shape correct, even though the last *.cor file created is probably the correct one to use. To avoid this problem, delete "bad" *.cor files(never delete the *.ssf files) when they are discovered.

Program: ArcMap

1- Merge shapefiles if needed
2- Project the shapefile to Idaho Transverse Mercator (NAD 1983) – transformation option "# 5"