

5.2 Modifying the Logfile for GIS import

Procedure:

1. In **Template Headings**, copy the line of headings that have boxes highlighted in blue over to the top of your **Active Data** worksheet
2. Copy the raw WinHorizon data just underneath the newly pasted headings in **Active Data**
 - a. The headings should now correspond to the raw WinHorizon output in the columns (Fig.1)
3. Delete the columns that are not needed as identified by the blue highlighted header (Fig.1)

RATTM	Target#	Target Distance from ship (km)	Bearing from ship (°)
0	0	0.34	152.58
0	0	0.33	147.66
0	0	0.33	147.66

Delete columns with blue headers

Figure 1. Copying headers over to identify WinHorizon Output

4. Insert a two rows above the headers
5. Back in **Header Templates**, copy the Active Data Headers and paste them in the rows that were just created in your **Active Data** worksheet
6. After ensuring all the columns are in order and entering *your* radar UTM's (East and North), drag the numbers under **Radar UTMN, UTME, X and Y** (Fig. 2)
 - a. This copies the values for the radar UTM and the formulas to calculate the X and Y coordinates that GIS uses to place the target
 - i. For this step to work properly, the correct heading offset must have been set in WinHorizon *before* the track was made and the radar UTM's need to be correct (remember that GPS units usually give Lat/Long)
 - i. If the position of the Radar is not in UTM's, go to www.rcn.montana.edu/resources/tools/coordinates
 - b. Double click on a few X and Y cells to ensure that the formulas are correct (see Excel formulas)
7. You can now delete the extra set of headers (Fig.2)
 - c. Make sure you also delete the hypothetical values pasted in with Active Data Headers that were used to drag down the formulas as to not create a false point for your track (Fig. 2)

13. The file is now ready to bring into GIS (**WinHorizon to Arcmap Protocols**)
14. If the **Logfile Template** is not available, equations can be found in the last page of **WinHorizon Output to GIS-Ready Data**

WinHorizon Output Headers								
NEMA	Target#	Target Distance from ship (km)	Bearing from ship (°)	True or Relative	Target speed (KT)	Target course (°)	True or Relative	Distance to CPA
Active Data Headers								
Target#	Target Distance from ship (km)	Bearing from ship (°)	Target speed (KT)	Target course (°)	Target Intensity (units?)	Target Status (Q=acquiring, T=tracking)	Time of Output (units? Of processing ?)	Acquire Time of Target (units? ts&#s)
GIS Headers								
TargetN	Dist2T	BearingT	Tspeed	Tcourse	Tintensity	Tstatus	TimeoutP	TAqrTime

Delete columns in blue



Figure 1. Header template sheet