

## Nate 7-14 – UTM Grids Z & A errors

Nate & Debby:

In revising the Project 1-2-6-66 tape I discovered another error of the transcribers that the S's didn't catch. The UTM grid squares that start with "Z" and "A" occur where the UTM Grid Zone 48P meets the UTM Grid Zone 49P. As a result, where all other UTM grid squares are 10,000 m. by 10,000 m., the east/west gradient for "Z" is only approximately 2100 m. (from 000 to 210) and for "A" the approximate same (from 790 to 999). Apparently at least some of the transcribers did not know this and treated these grids like all the others when computing track distances, resulting in tracks of 30 or more miles when in actuality they were less than 10 km. This explains many of the track distance errors when involving the two grid squares. The only accurate determination is to plot the UTM coordinates on a large-scale map and then to measure the actual plotted track where the track crosses the boundary line between these two grids. When I send the project tape I also will send you a copy of my home-designed UTM measurement tool that simplifies plotting the tracks. There are professional tools, but I was unable to locate a source either locally or through the internet.

Paul :)