Gmail **Paul Boal <paul.boal@gmail.com>**

Possible Edits?

1 message

Mike B <mike.beardsley@gmail.com> Wed, Dec 18, 2024 at 8:42 AM
To: PaulBoal <paul.boal@gmail.com>

Hi Paul,
I'm blown away by this. I'm going to need a lesson on how to use the work you've done so that I can feed some more Excel files (csv's) into this and continue the work. Is it possible to change a few items?

Item one is simply a terminology change. Where we have SU in the columns (e.g. LK or LL) That is actually called the "Tile ID". The number within the tile is the SU (we have that identified as "Cell"). So in the resulting spreadsheet on points the column headings would be Northing, Easting, reading, Tile, SU, Subcell. On the Subcells Tab, It would Say Tile, SU, Subcell, reading_mean, Reading g_mean, Reading count, diff. The cells tab would make the column headings Tile, SU, subcell_gmean, subcelll_mean, subcell_count, reading_count, gmean_diff, point_mean, point_count, point_diff.

The other thing I'd like to change is in the code. The coordinates aren't actually State Plane. They are US survey foot, but we work on ground, not projection out here (so 1' is 1 foot on ground, rather than on grid projection/geoid). Because of this, there is scale, rotation, and shift (translation) from our local coordinates to the State Plane coordinates (about 1.2 degrees rotation, 300 to 600 feet of shift, with a combined scale factor somewhere around 0.9999XXX). Anyhow, it doesn't matter, we work solely in our project coordinates and I can move those using Trimble Business Center to SP if needed. The main thing is, can we change the code/notes to say this is on Local Coordinates (Modified State Plane) rather than SPC UTC Zone C-4302? (If you drop our coordinates into say Google Earth or something, everything is going to hit to the north of where it ought to and be slightly out of kilter. I don't believe there's any calculation difference on this, it's just that I don't want to confuse anyone along the way with thinking we're in a Sp coordinate system.

On the whole, this is awesome! As I noted above, I will need a quick lesson on how to run this. I gave you SDG 1 (Data group 1) . I have 3 others I'd like to do this on (3 more Excel files), and I'm in discussions to see if we rewrite the code for the entire processing from the scanner to be a geospatial average (looking like it). I'm going to meet tomorrow on that topic (there's the issue of embarrassment for doing it wrong the first time, and then of course the issue of time and money, all sensitive topics, but I'll get the Team through it).

Thanks,
Mike