

## Muller-Landau, Helene

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**From:** Solano, Milton  
**Sent:** Monday, August 15, 2022 12:38 PM  
**To:** Muller-Landau, Helene  
**Subject:** RE: request - convert UTM coordinates to decimal degrees

All datasets were compiled from Steve Paton files, ETESA webpage and I plotted them on the map, so I'm pretty sure the locations are correct. I think some of them maybe a couple of meters off because were not taken with high precision GPS but overall good.

Milton

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**From:** Muller-Landau, Helene <MullerH@si.edu>  
**Sent:** lunes, 15 de agosto de 2022 12:30 p.m.  
**To:** Solano, Milton <SolanoM@si.edu>  
**Subject:** RE: request - convert UTM coordinates to decimal degrees

Thanks!

Where did you get these coordinates, and how confident in them are you?

Helene

Helene Muller-Landau, PhD  
Staff Scientist / Research Ecologist  
Smithsonian Tropical Research Institute, Panama  
Tel (+507) 6471-5214 (WhatsApp, text messages, no voicemail)  
<https://smithsonian.zoom.us/j/2496440282?pwd=UWdZNlZ4UmVwSFkyRzZqOUZK29tQT09>

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**From:** Solano, Milton <[SolanoM@si.edu](mailto:SolanoM@si.edu)>  
**Sent:** Monday, August 15, 2022 12:26 PM  
**To:** Muller-Landau, Helene <[MullerH@si.edu](mailto:MullerH@si.edu)>  
**Subject:** RE: request - convert UTM coordinates to decimal degrees

Helene,

Attached are the CSV files exported directly from the app.

Saludos,

Milton

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**From:** Muller-Landau, Helene <[MullerH@si.edu](mailto:MullerH@si.edu)>  
**Sent:** lunes, 15 de agosto de 2022 6:50 a.m.  
**To:** Solano, Milton <[SolanoM@si.edu](mailto:SolanoM@si.edu)>  
**Subject:** RE: request - convert UTM coordinates to decimal degrees

Hi Milton,

Just bouncing this back to the top of your inbox –

Can you email me the spreadsheet of station names and locations that correspond with your map, please? That is, the map at

<https://si.maps.arcgis.com/apps/webappviewer/index.html?id=aa209a1efd1147f8b7bae475daef64e3>

thanks!

Helene

Helene Muller-Landau, PhD

Staff Scientist / Research Ecologist

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**From:** Muller-Landau, Helene

**Sent:** Thursday, August 11, 2022 12:14 PM

**To:** Solano, Milton <[SolanoM@si.edu](mailto:SolanoM@si.edu)>

**Subject:** RE: request - convert UTM coordinates to decimal degrees

Hi Milton,

Oh yes, I bet these are a subset of the ones in your map! Can you email me a spreadsheet or such with the names and coordinates of all those stations? I don't see a way to do that from the linked map ... although of course that probably just demonstrates my ignorance!

Helene

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**From:** Solano, Milton <[SolanoM@si.edu](mailto:SolanoM@si.edu)>

**Sent:** Thursday, August 11, 2022 10:54 AM

**To:** Muller-Landau, Helene <[MullerH@si.edu](mailto:MullerH@si.edu)>

**Subject:** RE: request - convert UTM coordinates to decimal degrees

Ok, got it. I wonder if these are the same MET stations I have here:

<https://si.maps.arcgis.com/apps/webappviewer/index.html?id=aa209a1efd1147f8b7bae475daef64e3>

Where all have the right UTM. Let me calculate the DD for you. Attached the same spreadsheet with a new sheet having the columns calculated for DD. The UTM's are in Zone 17 North but the DD are in WGS 84 (first one is a projected coordinate system and the second is a geographic coordinate system)

Milton

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**From:** Muller-Landau, Helene <[MullerH@si.edu](mailto:MullerH@si.edu)>  
**Sent:** jueves, 11 de agosto de 2022 10:30 a.m.  
**To:** Solano, Milton <[SolanoM@si.edu](mailto:SolanoM@si.edu)>  
**Subject:** RE: request - convert UTM coordinates to decimal degrees

Hi Milton,

I'd like you to calculate decimal degrees from the UTM coordinates for all sites, and add that as another set of columns (lat\_n\_ms and long\_w\_ms or something), so that I can compare with the current ones.

I have a query out to Steve Paton on whether the UTM or lat-long coordinates are more reliable. That is, if they point to different positions (which I think they do for some sites), which should we use.

Helene

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**From:** Solano, Milton <[SolanoM@si.edu](mailto:SolanoM@si.edu)>  
**Sent:** Thursday, August 11, 2022 10:05 AM  
**To:** Muller-Landau, Helene <[MullerH@si.edu](mailto:MullerH@si.edu)>  
**Subject:** RE: request - convert UTM coordinates to decimal degrees

Helene,

Now I don't understand: which ones are the original coordinates? You need me to update the decimal degrees columns?

Milton

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**From:** Muller-Landau, Helene <[MullerH@si.edu](mailto:MullerH@si.edu)>  
**Sent:** jueves, 11 de agosto de 2022 8:18 a.m.  
**To:** Solano, Milton <[SolanoM@si.edu](mailto:SolanoM@si.edu)>  
**Subject:** RE: request - convert UTM coordinates to decimal degrees

I found another few rows where the UTM coordinates were swapped between northing and easting. This is now fixed in the attached, so use this one please. Thanks!

Helene Muller-Landau, PhD  
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**From:** Muller-Landau, Helene  
**Sent:** Thursday, August 11, 2022 8:01 AM

**To:** Solano, Milton <[SolanoM@si.edu](mailto:SolanoM@si.edu)>

**Subject:** request - convert UTM coordinates to decimal degrees

Hi Milton,

I'm trying to fill in decimal degree lat-long coordinates for those stations in the attached file (sheet 1) that don't have them, using the UTM's. I found a function in R that does this, but the output does not exactly match the values for the other stations that have both utm and decimal degree coordinates. So I'm probably doing something wrong. (Or of course, the previous conversion could be wrong, which would also be important to know.)

Could you please provide lat-long decimal coordinates converted from UTM for all the stations in this file?

Thanks,  
Helene

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