

Longabaugh, Steve

From: IRI Help [help@iri.columbia.edu]
Sent: Monday, September 21, 2009 9:57 AM
To: Longabaugh, Steve
Subject: Re: <http://iridl.ldeo.columbia.edu/maproom/.Health/.Regional/.Africa/.Malaria/.MEWS/>

Hello,

Thank you for your message. In the IRI Data Library we have a few precipitation datasets that you might find helpful. I'll mention a couple of options.

One of these is the University of East Anglia TS2.1 monthly precipitation dataset, which is based entirely on station data and has been interpolated to a 0.5 degree lat/lon grid. Here, I have calculated the 1971-2000 average of the annual precipitation:

<http://iridl.ldeo.columbia.edu/expert/SOURCES/.UEA/.CRU/.TS2p1/.climatology/.c7100/.prcp/X/-20./55./RANGEEDGES/Y/-40/40/RANGEEDGES%5BT%5Dsum/>

If you click on the "Data Files" link you will find three GIS-compatible formats in which you can download the data:

<http://iridl.ldeo.columbia.edu/expert/SOURCES/.UEA/.CRU/.TS2p1/.climatology/.c7100/.prcp/X/-20./55./RANGEEDGES/Y/-40/40/RANGEEDGES%5BT%5Dsum/?help=datafiles>

Here is an image of the result:

http://iridl.ldeo.columbia.edu/expert/SOURCES/.UEA/.CRU/.TS2p1/.climatology/.c7100/.prcp/X/-20./55./RANGEEDGES/Y/-40/40/RANGEEDGES%5BT%5Dsum/figviewer.html?my.help=more+options&map.Y.units=degree_north&map.Y.plotlast=40N&map.url=X+Y+fig-+colors+coasts+lakes+-fig&map.domainparam=%2Fplotaxislength+432+psdef+%2Fplotborder+72+psdef&map.zoom=Zoom&redraw.x=22&redraw.y=20&map.Y.plotfirst=40S&map.X.plotfirst=20W&map.X.units=degree_east&map.X.modulus=360&map.X.plotlast=55E&map.prcp.plotfirst=0&map.prcp.units=mm%2Fmonth&map.prcp.plotlast=3600&map.newurl.grid0=X&map.newurl.grid1=Y&map.newurl.land=draw+coasts&map.newurl.plot=colors&map.plotaxislength=432&map.plotborder=72&map.fnt=Helvetica&map.fntsize=12&map.XOVY=auto&map.color_smoothing=1&map.framelbl=framelabelstart&map.framelabeltext=>

You might also consider the Global Precipitation Climatology Centre's Full Data Product Version 4 precipitation dataset. It is also based entirely on station gauge data and interpolated to grids spaced at 0.5 deg., 1.0 deg., and 2.5 deg., lat/lon. Here, I have calculated the 1971-2000 average of the annual precipitation on the 0.5 deg. grid:

[http://iridl.ldeo.columbia.edu/expert/SOURCES/.WCRP/.GCOS/.GPCC/.FDP/.version4/.0p5/.prcp/T/\(Jan%201971\)\(Dec%202000\)RANGE/X/-20./55./RANGEEDGES/Y/-40/40/RANGEEDGES/T/12/splitstreamgrid%5BT%5Dsum%5BT%5DAverage/](http://iridl.ldeo.columbia.edu/expert/SOURCES/.WCRP/.GCOS/.GPCC/.FDP/.version4/.0p5/.prcp/T/(Jan%201971)(Dec%202000)RANGE/X/-20./55./RANGEEDGES/Y/-40/40/RANGEEDGES/T/12/splitstreamgrid%5BT%5Dsum%5BT%5DAverage/)

With this data set as well, you can click on the "Data Files" link to find GIS download options.

Here is an image of the 1971-2000 average of the annual precipitation using this data set:

[http://iridl.ldeo.columbia.edu/expert/SOURCES/.WCRP/.GCOS/.GPCC/.FDP/.version4/.0p5/.prcp/T/\(Jan%201971\)\(Dec%202000\)RANGE/X/-20./55./RANGEEDGES/Y/-40/40/RANGEEDGES/T/12/splitstreamgrid%5BT%5Dsum%5BT%5DAverage/figviewer.html?my.help=more+options&map.Y.units=degree_north&map.Y.plotlast=40N&map.url=X+Y+fig-+colors+coasts+lakes+-fig&map.domainparam=%2Fplotaxislength+432+psdef+%2Fplotborder+72+psdef&map.zoom=Zoom&redraw.x=10&redraw.y=14&map.Y.plotfirst=40S&map.X.plotfirst=20W&map.X.units=degree_east&map.X.modulus=360&map.X.plotlast=55E&map.prcp.plotfirst=0&map.prcp.units=mm%2Fmonth&map.prcp.plotlast=3600&map.newurl.grid0=X&map.newurl.grid1](http://iridl.ldeo.columbia.edu/expert/SOURCES/.WCRP/.GCOS/.GPCC/.FDP/.version4/.0p5/.prcp/T/(Jan%201971)(Dec%202000)RANGE/X/-20./55./RANGEEDGES/Y/-40/40/RANGEEDGES/T/12/splitstreamgrid%5BT%5Dsum%5BT%5DAverage/figviewer.html?my.help=more+options&map.Y.units=degree_north&map.Y.plotlast=40N&map.url=X+Y+fig-+colors+coasts+lakes+-fig&map.domainparam=%2Fplotaxislength+432+psdef+%2Fplotborder+72+psdef&map.zoom=Zoom&redraw.x=10&redraw.y=14&map.Y.plotfirst=40S&map.X.plotfirst=20W&map.X.units=degree_east&map.X.modulus=360&map.X.plotlast=55E&map.prcp.plotfirst=0&map.prcp.units=mm%2Fmonth&map.prcp.plotlast=3600&map.newurl.grid0=X&map.newurl.grid1)

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=Y&map.newurl.land=draw+coasts&map.newurl.plot=colors&map.plotaxislength=432
&map.plotborder=72&map.fnt=Helvetica&map.fntsize=12&map.XOVY=auto&map.color_smoothing=1
&map.framelbl=framelabelstart&map.framelabeltext=>
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I hope this is helpful. Let me know if you have any questions.

Michael Bell

Longabaugh, Steve wrote:

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> Hello,
>
> My name is Steve Longabaugh and I work with the Food Security Group in
> the Department of Agricultural, Food and Resource Economics at
> Michigan State University.
>
> For some of our analysis, we would like to find a GIS raster file of
> 30 year average of annual rainfall across Africa. I have searched
> through the site:
> http://ingrid.ldeo.columbia.edu/maproom/.Health/.Regional/.Africa/.Mal
> ar ia/.RED/ as well as other sites but have been unsuccessful.
>
> Do you have this data or can you direct me to where I might find it?
>
> Thanks,
>
> Steve
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> *****
>
> Steve Longabaugh
> Department of Agricultural, Food and Resource Economics Michigan State
> University
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> Steve Longabaugh
> Department of Agricultural, Food and Resource Economics Michigan State
> University
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