getCRUCLdata: Download and Use CRU CL2.0 Climatology Data in R

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Summary

The getCRUCLdata package provides four functions that automate importing CRU CL2.0 climatology data (New et al. 2002) into R (R Core Team 2016), facilitates the calculation of minimum temperature and maximum temperature, and formats the data into a tidy data frame (Wickham 2014) or a list of raster stack objects (Hijmans 2016) for use in R or easily exports to a raster format file for use in a geographic information system (GIS). Two functions, get_CRU_df and get_CRU_stack provide the ability to easily download CRU CL2.0 data from the CRU website and import the data into R. The other two functions create_CRU_df and create_CRU_stack allow the user to easily import the CRU data files from a local disk location and transform them into a tidy data frame or raster stack. The data have applications in applied climatology, biogeochemical modelling, hydrology and agricultural meteorology (New et al. 2002).

References

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