cartopy - set extent() extending requested boundary

Asked 2 years, 7 months ago Active 2 years, 7 months ago Viewed 4k times



i'm new to cartopy and still learning basic features.



I tried to plot a specific region however, cartopy extended this region and produced a map going up to approximately 85oN when I requested 80oN. Is there a way I can ensure I only get the region I am interested in?



PC regional map

cartopy

asked Apr 18 '17 at 10:55



Ray Bell **473** • 4 • 17

2 Answers



You should make sure to tell the set_extent method what coordinate system you are specifying the extents in, in this case:





ax.set_extent([-100, 30, 0, 80], crs=ccrs.PlateCarree())



This method is preferred in cartopy because it avoids having to use the set_xlim / set_ylim which always operate in projection coordinates, which can be the cause of much confusion when working with projections other than PlateCarree(). Using set_extent with an explicit crs will always do what you expect regardless of the projection of your plot.

answered Apr 19 '17 at 20:29





Thanks. Good to know I can pick up some of the matplotlib functions in cartopy. Yes. Adding the ax.set_ylim([0, 80]) got me what what I wanted plt.figure(figsize=(5.12985642927, 3)) ax = plt.axes(projection=ccrs.PlateCarree(central_longitude=-35)) ax.set_extent([-100, 30, 0, 80]) ax.set_ylim([0, 80]) ax.coastlines(resolution='110m') gl = ax.gridlines(crs=ccrs.PlateCarree(), draw_labels=True, linewidth=2, color='gray', alpha=0.5, linestyle='--') imgur.com/a/JYzEm - Ray Bell Apr 18 '17 at 15:01