Subject: Re: colored vector plots
Posted by anil on Sat, 01 Mar 2014 19:07:35 GMT
View Forum Message <> Reply to Message

On Friday, February 28, 2014 5:19:56 PM UTC+2, David Fanning wrote:
> anil writes:
>
>
>
>>
>
>> Dear all,
>
>> What is the most efficient way to do colored vector plots (representing colors corresponding to their magnitude). I currently use 'msvelovect.pro' to plot vectors on map projections, but i can not seem to color them.
>
>> Currently i just say msvelovect,u,v,lon,lat,colors=?!?something
>
>> I guess there is not much color option in this one, so I tried partvelvec.pro, but i could not succeed there either. I defined my lon, lat,u and v are the same size = (76,51). I tried to scale_vector and cgscalevector as:
>
>> colors=cgscalevector((indgen(n_elements(u(0:75,0:50)))),0,25 5)
>
>> and then partvelvec,u,v,lat,lon,veccolors=colors, but it gives errors such as:
>
>> CGDEFAULTCOLOR: Cannot determine a color from a value of 0.131613 of data
>
>> % CGDEFAULTCOLOR: Cannot determine a color from a value of 0.197419 of data
>
>>
>
>> Could anyone please suggest a solution?
>
>
>
> POSX=RANDOMU(seed,200)
>
> POSY=RANDOMU(seed,200)
>
> VELX=RANDOMU(seed,200)-0.5
>
> VELY=RANDOMU(seed,200)-0.5
>
> magnitude = SQRT(velx^2 + vely^2)
>
> LOADCT, 5, NCOLORS=254, BOTTOM=1 ; Load vector colors

>
> colors = BytScl(magnitude, Top=254) + 1B
>
> PARTVELVEC, VELX, VELY, POSX, POSY, VECCOLORS=colors
>
> END
>
>
>
> Cheers,
>
>
>
> David
>
> --
>
> David Fanning, Ph.D.
>
> Fanning Software Consulting, Inc.
>
> Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
>
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Thanks a lot David.
