
Subject: Re: Direction of Wind Vectors: A bug?
Posted by [wlandsman](#) on Wed, 18 Feb 2015 19:23:23 GMT
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On Wednesday, February 18, 2015 at 1:32:50 PM UTC-5, David Fanning wrote:

> So, here is my question. Are both of these programs "right"? If not, why
> not? And, which would convey the "true wind direction" more convincingly
> on a plot?

I'd vote for the partvelvec.pro approach where the angle -- like everything else on the map -- is distorted by the unequal projections.

However, in a similar case I chose the opposite approach -- in my tvcircle.pro I have the comment

"TVCIRCLE always draws a circle --- even when in data coordinates and the X and Y data scales are unequal. (The X data scale is used to define the circle radius.) If this is not the behavior you want, then use TVELLIPSE instead."

In any case, the behavior of the program should be documented (which partvelvec.pro currently isn't), and perhaps a keyword could be added to let the user choose which approach he wants.

--Wayne
