Subject: Particle_Trace question ?
Posted by millward.george on Tue, 18 Mar 2008 22:56:51 GMT
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Hi there,

I am trying to use particle_trace to create streamlines from a vector field - but I'm having quite alot of trouble understanding the documentation.

I have a velocity field which is a longitude, latitude array of Southward and Eastward velocities. My arrays are 20 longitudes by 91 latitudes. So my 2 arrays are:

V_south(20,91) and V_east(20,91)

I now want to feed these into Particle_trace.

The syntax for Particle_trace requires a single array (which they call Data) of size Data[2,dx,dy]

I'm assuming that dx and dy are the indexes for longitude and latitude and the first dimension (2) is for the 2 components of the field, so:

data(0,lon,lat) = V_east(lon,lat) data(1,lon,lat) = 0.0 - V south(lon,lat)

Nowhere in the documentation does it define the directions - is dx Eastwards - is dy Northwards? Very confusing!!

And the seed points - are these longitude, latitude points or something? Again, no real explanation in the documentation.

....or have I got it completely wrong?

Any help with this very much appreciated

Cheers,

George.