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Subject: Interpolation: grid --> observation point  
Posted by [Andy Loughe](#) on Thu, 24 Feb 2000 08:00:00 GMT  
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Hello,

I have inherited code that takes atmospheric model (gridded) data and interpolates it to station observation points that report hourly precipitation. The model points form a cartesian coordinate system, while the station observations are spread randomly within the boundaries of the full model domain.

Currently, a bi-linear approach is used to interpolate the model data to each observation point. This method uses the four closest model grid points which surround the observation point.

I would like to use more than just the four model grid points which surround the observation point, and weight the more distant points appropriately.

Any suggestions on effective methods for doing this in IDL?

Thanks!

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