
Subject: Interpolation problem

Posted by [sdj](#) on Mon, 03 Nov 2003 11:21:30 GMT

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Dear All,

I have a problem with interpolating data, neither of the IDL functions INTERPOLATE/INTERPOL/BILINEAR seem to work.

I have a 2-d array on a regular grid with valid values which are all +ve. Non valid values are set to -9999 and some 'intermediate' values

I would like to interpolate are set to -1.

How can I interpolate over the x, y grid the 'intermediate' values set to -1 without taking into account the non-valid values ?

I've tried the following, but it does not work (my output values are exactly the same as my input values).

```
;a is a fltarr(x, y) -> 'a' being meteorological values at 'x' lon
```

```
;and 'y' lat
```

```
nx = n_elements(a(*, 0)) ; no. elements x
```

```
ny = n_elements(a(0, *)) ; no. elements y
```

```
d = where(a EQ -1, count1) ; find 1-d index of values to be  
interpolated
```

```
xd = d mod nx ;x index of values to be interpolated
```

```
yd = d / nx ; y index of values to be interpolated
```

```
;I "try" to have the a(xd, yd) values interpolated, but my output
```

```
;values are exactly the same as my input values
```

```
int_val = INTERPOLATE(a, xd, yd, missing = -9999)
```

INTERPOL and BILINEAR don't work either, have you got any idea of how to do this sort of operation ?

Thanks in advance for the help.

Best Regards,

Pepe
