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Subject: kriging

Posted by [ggggg](#) on Wed, 19 Jan 2011 16:00:54 GMT

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hallo,

i have some precipitation measurments from various swiss stations (over 500 points). now i try to interpolate this data with kriging. but i don't know how to do that.

as an example i tried do do it with 5 points with the values in array f, and the long-and latitudes in the arrays lat and lon. (see further down)

i plotted the map of switzerland with the subprogram "maps" , but then i don't know what to do. i found the griddata function but how i have to use it?

hope you can help me!

thanks  
ms

code:

pro grid

lat=[45.9,47.1,46.5,46,47]

lon=[6,9,8,10,7.2]

f=[100,200,11,120,100]

maps

stop

end

Pro maps

```

maplimit = [45.7, 5.9, 47.8, 10.6] ;NMM22 europe

; Handle TrueColor displays:
DEVICE, DECOMPOSED=0

; Load discrete color table:
tek_color

; Match color indices to colors we want to use:
black=0 & white=1 & red=2
green=3 & dk_blue=4 & lt_blue=5

; Set up an orthographic projection centered over the north
; Atlantic. Fill the hemisphere with dark blue. Specify black
; gridlines:
;MAP_SET, /ORTHO, 40, -30, 23, /ISOTROPIC, $
; /HORIZON, E_HORIZON={FILL:1, COLOR:dk_blue}, $
; /GRID, COLOR=black

MAP_SET, /ORTHOGRAPHIC, 48, 7, limit = maplimit,/iso, $
    /GRID, LONDEL=15, LATDEL=15,color=0, title ='stationen',/hires

; Fill the continent boundaries with solid white:
MAP_CONTINENTS, /FILL_CONTINENTS, COLOR=black,/hires

; Overplot coastline data:
MAP_CONTINENTS, /COASTS, COLOR=white, /hires

; Add rivers, in light blue:
;MAP_CONTINENTS, /RIVERS, COLOR=lt_blue

; Show national borders:
MAP_CONTINENTS, /COUNTRIES, COLOR=white, MLINETHICK=2, /hires

end

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