
Subject: locating the closest values?

Posted by [anil](#) on Tue, 26 Jun 2012 20:55:34 GMT

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Hi,

I have two datasets/files. 1st one contains the values i want to find (latitudes and longitudes) and the second file contains 3 columns as longitude latitude and depth.

What i want to do is to read my desired values from file 1 and find the closest values in file 2 and the corresponding 3rd column(depth) from file 2. here is what i did:

1st file:

42.25 30.57

41.17 32.58

.....

2nd file

42.55 34.42 1000

41.54 33.21 1500

.....

what i did is :

$\text{difference1} = \text{abs}(\text{lon} - \text{desiredlon})$

$a1 = \text{min}(\text{difference1}, \text{index1})$

$\text{difference2} = \text{abs}(\text{lat} - \text{desiredlat})$

$a2 = \text{min}(\text{difference2}, \text{index2})$

in this case, lon(index1) and lat(index2) become my desired values. no problem with that. but how do i get the 3rd column. i could not match index1 and index2 with where function.

what am i missing here?
