Subject: where function Posted by smuzz on Sun, 23 Jan 2011 20:26:56 GMT

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Hi --

I am a beginner programmer trying to write a code involving the where function. My dataset includes call detections made by whales from 1 month. I am trying to search within this dataset for a particular call type, let's call it a moan. Then I want to search 1 hour before or after a detected moan and tally up all the other whale calls I hear -- this is the part I am stuck on. How do you use the where function to search 1 hour before or after? I am only familiar with using gt and It.

This is what I have so far...

n=n\_elements(auto); auto is my dataset with all whale calls

for i=0, n-1 do begin

k = where(auto(\*).manual\_species eq 0 and auto(\*).manual\_call\_type eq

1 and auto(\*).time gt stime and auto(\*).time lt etime,kcount); this

is looking for all moans within a specified start and end time of the

1 month study

if(kcount gt 0) then begin

j=where(auto(\*).mdist It 3.0 and auto(\*).avg\_amplitude ge 12.0 and auto(\*).time gt stime and auto(\*).time It etime and auto(\*).manual\_species eq 7 and auto(\*).manual\_call\_type eq 1,jcount); this is looking for all other whale calls within the dataset

....right now j is tallying up all the calls in the dataset, but now I want to add in a part asking for only calls that occur 1 hour before or after a moan detection?

Any ideas?

Thanks, smuzz