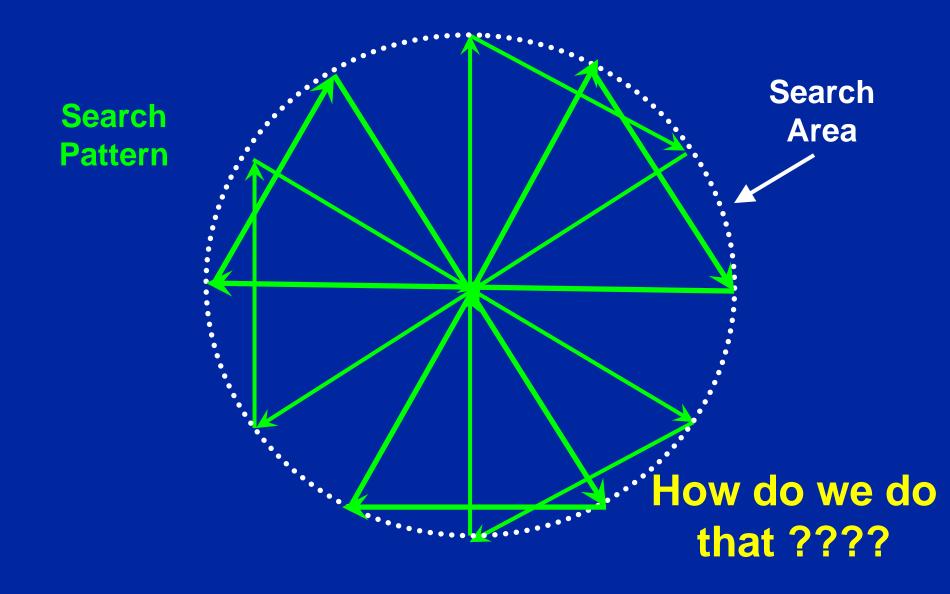
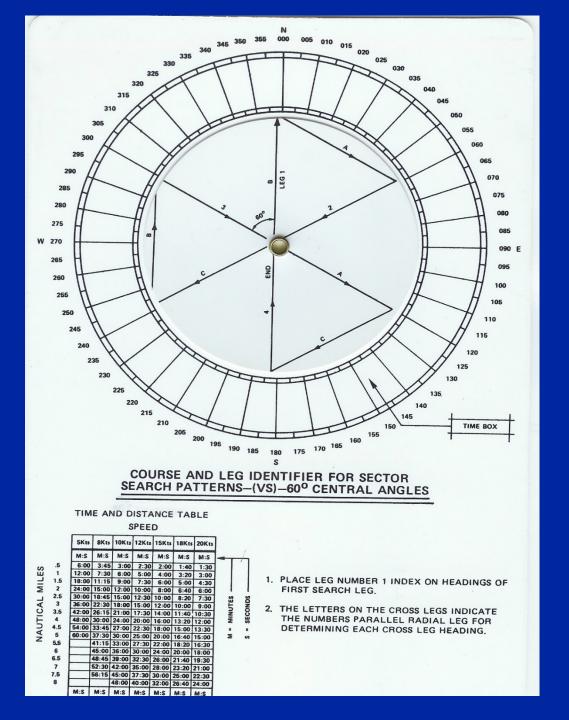
Sector Search Pattern



Characteristics:

- V Used in small search areas
- v There is a good starting point
- v Small search objects





We use our:

Sector Search Pattern Plotting Aid

 Begin your search at the Commence Search Point
 CSP

This will be provided by SAR Mission Coordinator

(SMC)

Lat xx° xx.x'
Long xxx° xx.x'

Drop a floating object such as a boat cushion or fender at the CSP when you begin the search

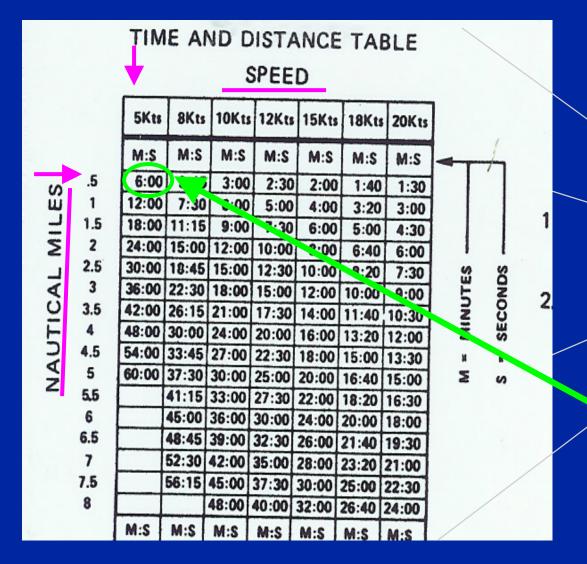
The SMC
 will also
 provide
 Track
 Spacing or
 radius

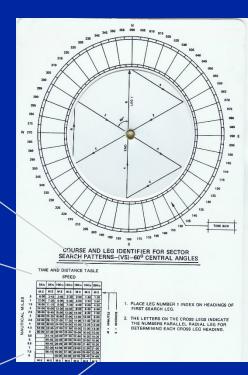
For example: 1/2 mile

 Using your search plotting aid, calculate the time for running a search leg based on the distance of the radius and the speed you will go

If I run the search at 5 knots, how long must I run to go ½ mile?

Speed is how fast your boat will run during the search

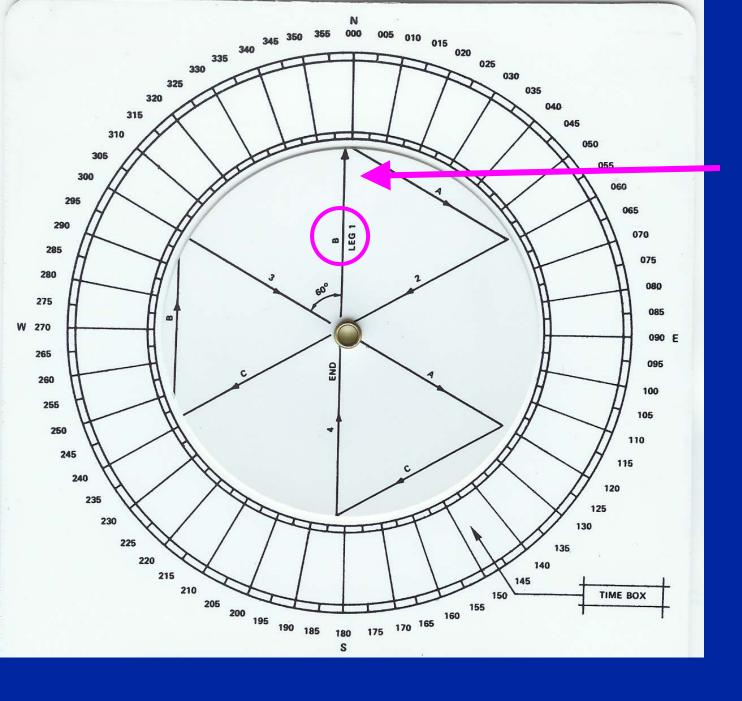




The intersection indicates how many minutes you will run on a search leg. In our example this is 6 minutes.

Nautical Miles is the radius given by the SMC

The heading of example: 000° your initial search leg will be with the current



Rotate the dial on your plotter until the arrow for LEG 1 is pointing to the heading that the current is flowing

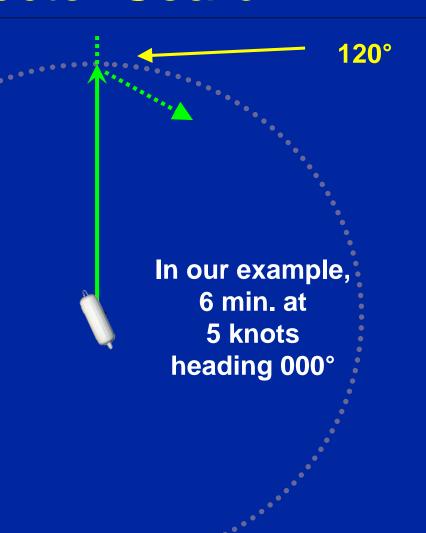
This will be your initial heading

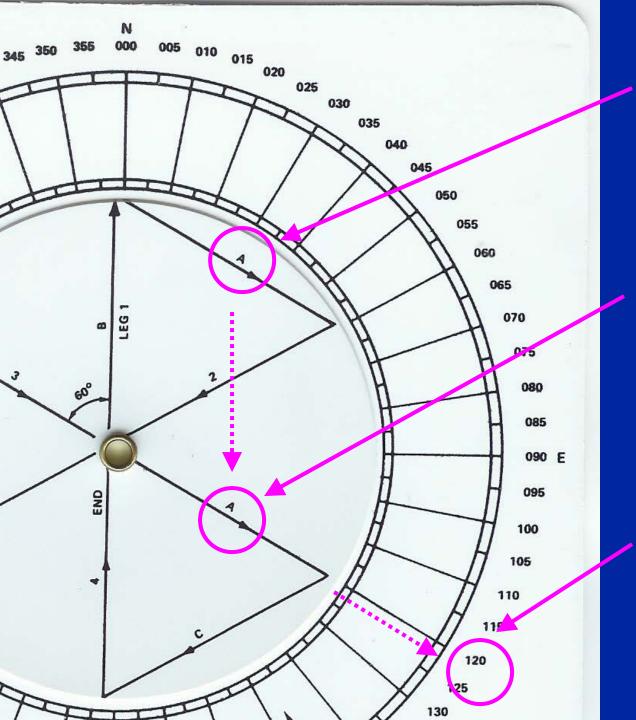
In our example this is 000°

 Run the first leg for the time and at the speed you calculated

At the end of your calculated time, turn right 120° (all turns are 120° to the right)

 Use your plotting aid to find your new heading





The heading you should follow on this cross leg is found by taking the letter of the leg you are on, in this case A

And carrying it down to the line with the same letter that passes through the center of the dial

Follow this line out to the edge of the dial to get your course heading

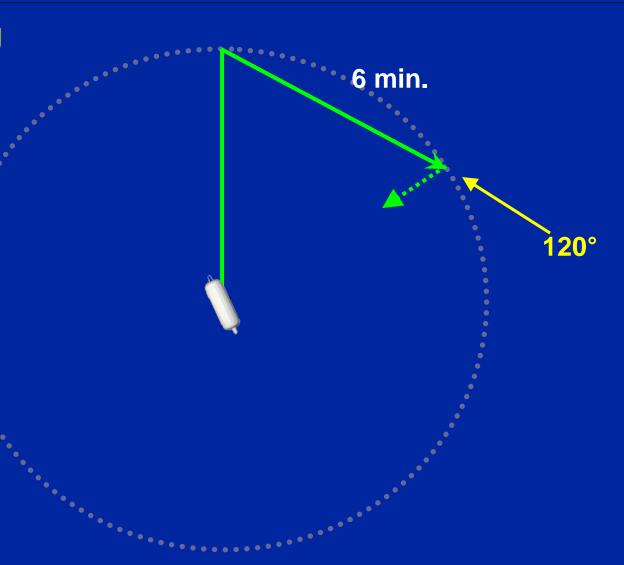
In our example, 120 °

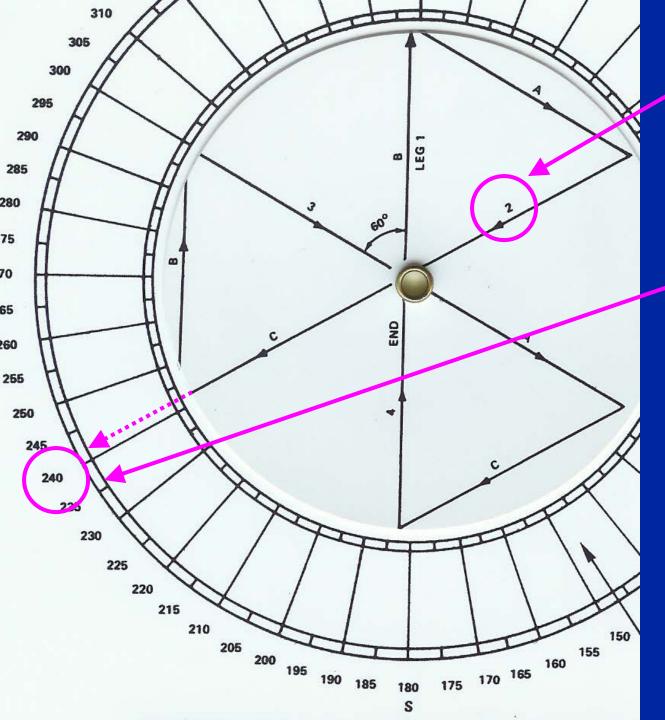
 Now run this cross leg at your calculated time and speed

In our example, 6 min. at 5 kts heading 120°

 After running this first cross leg for your calculated time, turn right 120° once again

Use your plotter to find the new heading to follow





Now you are on a leg that runs through the center dial

To find the heading to follow when this is the case, just read the line across the dial

In our example, 240°

Follow this
 heading back to
 the CSP
 adjusting course
 to the floating
 object

In our example 240°

 Then continue on your plotter heading for your calculated leg run time

In our example 6 min. at 5 knots

If your floating object has moved off of the CSP

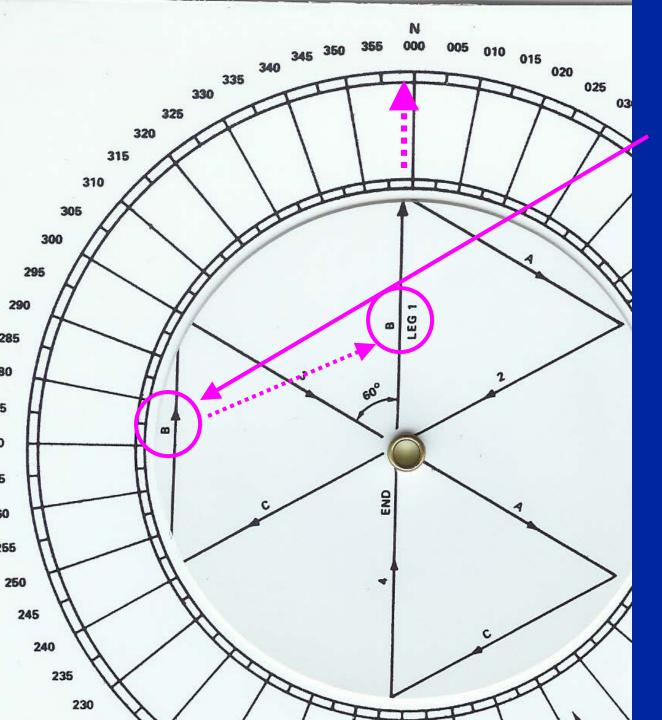
Once you observe your floating doublect, you alter course toward it

You begin this leg on the heading shown on your plotting aid; in our example, 240°

Upon reaching the object, you resume your plotted heading for your calculated leg run time

• At the end of your calculated run time, turn right 120° again

 Notice this cross leg is on the same heading as your initial leg • Use your plotter to find this heading



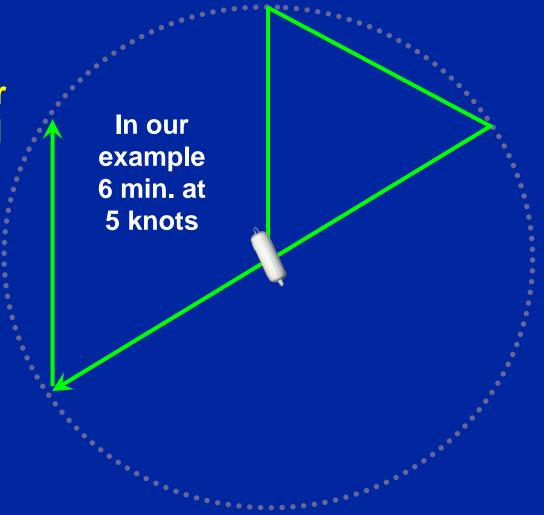
The heading you should follow on this cross leg is found by taking the letter of the leg you are on, in this case B

And carrying it over to the line with the same letter that passes through the center of the dial

Follow this line out to the edge of the dial to get your course heading

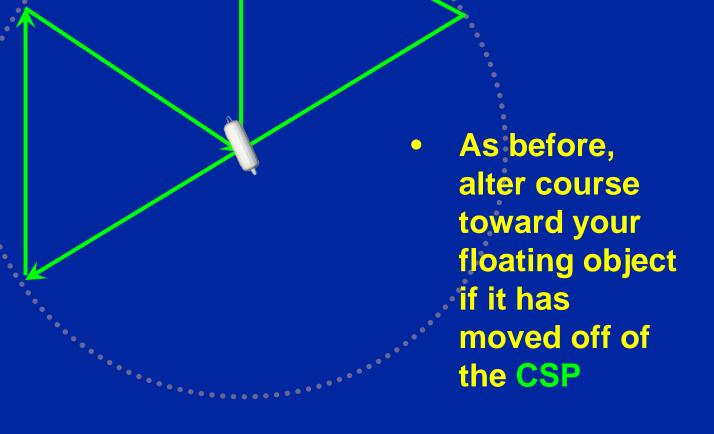
In our example, 000°

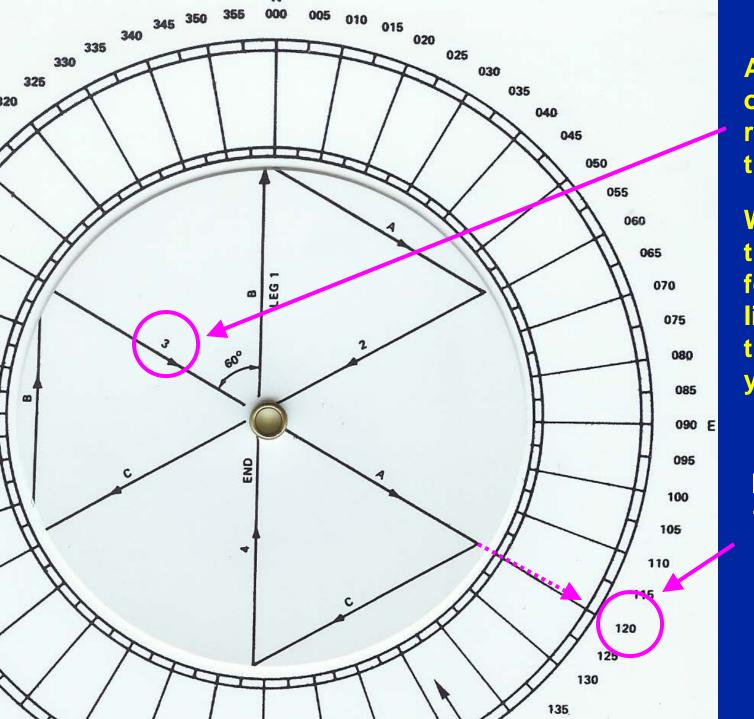
Now run
this cross
leg at your
calculated
time and
speed



 At the end of your calculated run time, turn right 120° again

Use your plotter to find your course back to the CSP

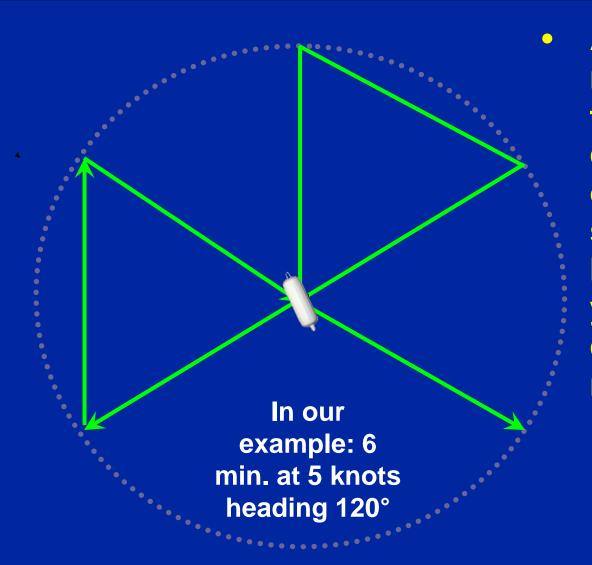




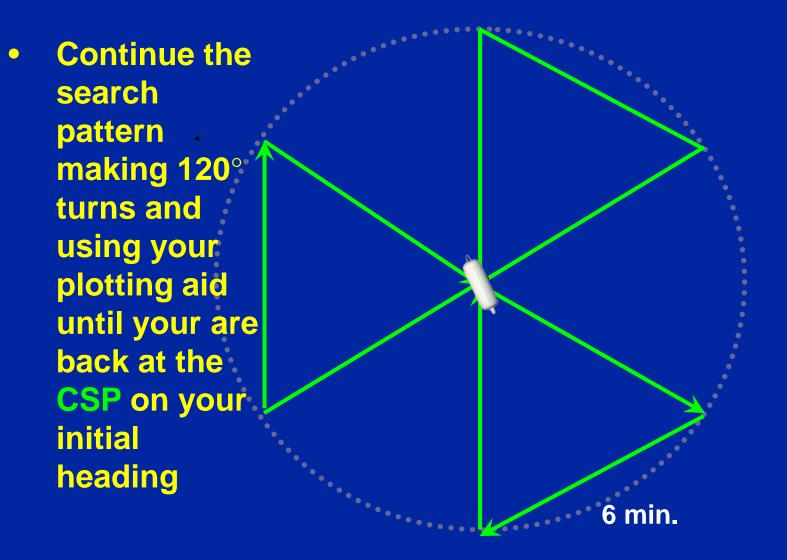
Again you are on a leg that runs through the center dial

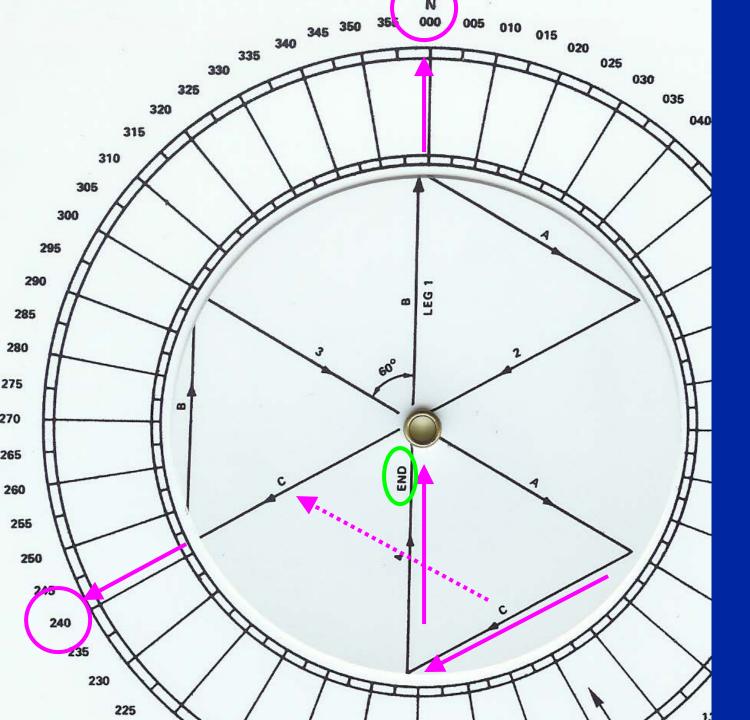
When this is the case, just follow the line across the dial for your heading

In our example, 120°



After reaching the CSP, continue on the same heading for your calculated run time





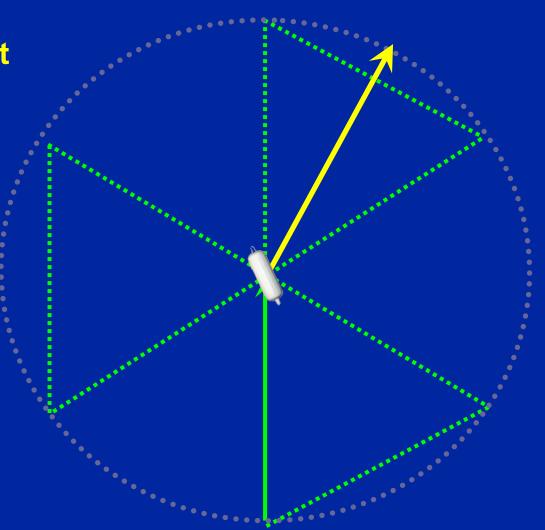
In our example: run Leg C at 240°

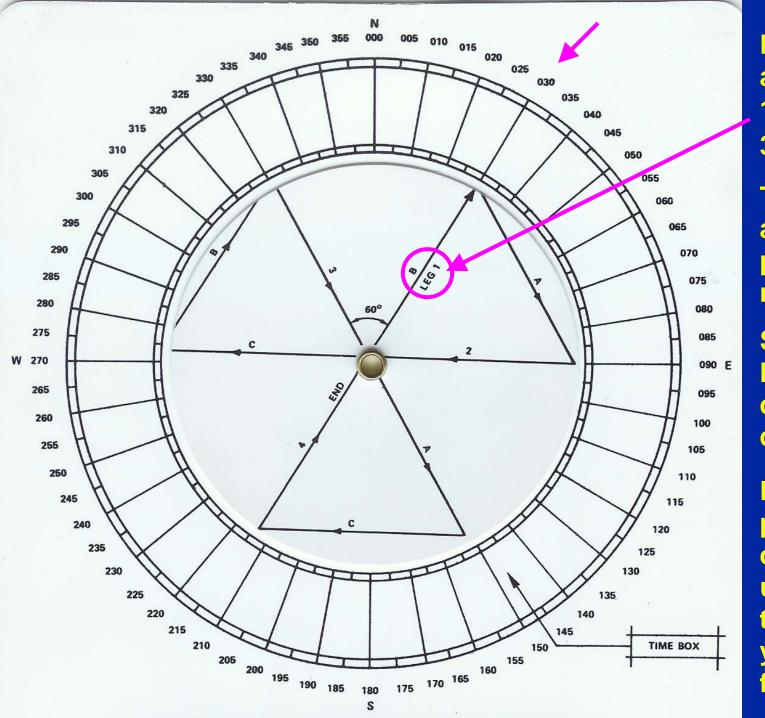
Then run Leg 4 at 000°

Notice this leg is also marked END indicating you are done with the first pass through the pattern

Once back at the CSP on your initial heading:

Offset your heading 30° to the right and begin the whole process again using your plotter



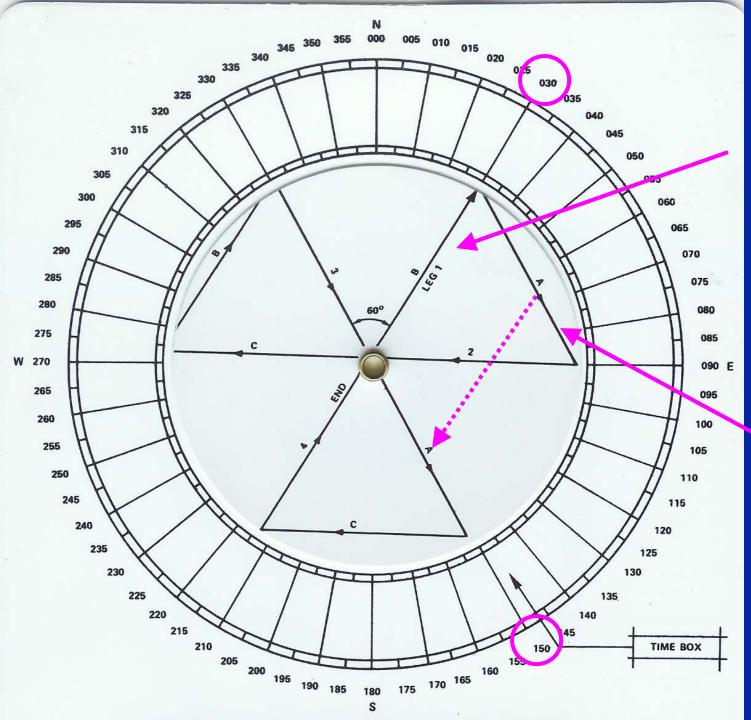


Rotate the arrow for LEG 1 to the right 30°

The LEG 1 arrow now points to your new heading

Speed and leg run time do not change

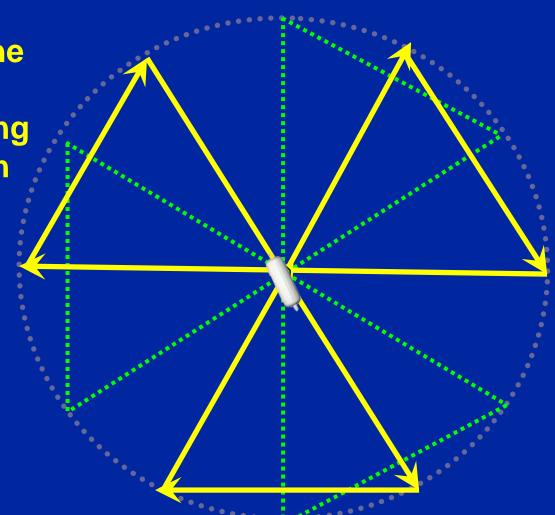
Run the pattern as you did before using plotter to determine your heading for each leg



In our example, your first leg will be at heading of 030°

The heading of your second leg will be 150°

Continue the pattern as before, using your search plotting aid



ANY QUESTIONS?

