## Sector Search Pattern



## Sector Search

## Characteristics:

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

## Sector Search

Search Pattern



## We use our:

## Sector Search Pattern Plotting Aid

## Sector Search

- Begin your search at the Commence Searc
CSP
e


## Sector Search

- The SMC
will also provide Track
Spacing or radius
- Using your search plotting aid, calculate the time for running à.
search leg based on the distance of the radius and the speed you will go

Speed is how fast your boat will run during the search


## Sector Search

The heading of your initial search leg will be with the current

example: $000^{\circ}$


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 $000^{\circ}$

## Sector Search

- Run the first leg for the time and at the speed you calculated
- At the end of your calculated time, turn right $120^{\circ}$ (all turns are $120^{\circ}$ to the right)

In our example, 6 min . at 5 knots heading $000^{\circ}$

- 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, $120^{\circ}$

## Sector Search

Now run this cross leg at your calculated time and speed

In our example, 6 min. at 5 kts
heading $120^{\circ}$

## Sector Search

- After running this first cross leg for your
calculated time, turn right $120^{\circ}$ once agaiṇ

Use your plotter to find the new heading to follow


## Sector Search



## Sector Search

- If your floating object has moved off of the CSP

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

- You begin this leg on the heading shown on your plotting aid; in our example, $240^{\circ}$
- Upon reaching the object, you resume your plotted heading for your
calculated leg run time


## Sector Search

- At the end of your calculated run time, turn right $120^{\circ}$ again

Notice this cross leg is on the same heading as your initial

- Use.your plotter to find this
heading leg


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, $000^{\circ}$

## Sector Search

Now run this cross leg at your calculated time and speed

## Sector Search

- At the end of your calculated run time, turn right $120^{\circ}$ again
- Use your plotter to find your course back to the CSP



## Sector Search

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


## Sector Search

- Continue the search pattern
making 120 pattern
making 120 turns and using your plotting aid until your àre back at the CSP on your: initial heading



In our example: run Leg C at $240^{\circ}$

## Then run Leg 4 at $000^{\circ}$

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

## Sector Search

Once back at the CSP on your initial heading:

Offset your heading $30^{\circ}$ to the right and begin the whole process again using your plotter


Rotate the arrow for LEG 1 to the right $30^{\circ}$

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


## Sector Search

Continue the pattern as before, using your search plotting aid

## ANY QUESTIONS?



