



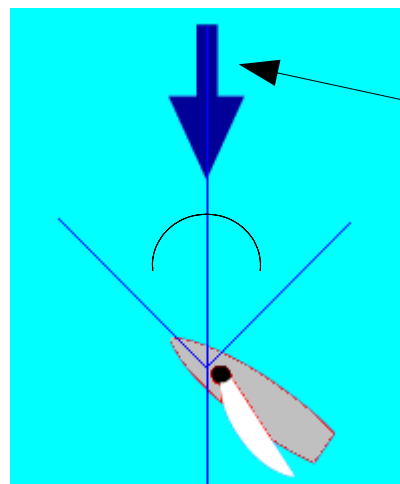
TACTICAL COMPASS

How to use the TUD : True Upwind Direction.

The TUD is the median value axis of your upwind cone. This axis results of the wind and the current directions.

If there is no current, where you are sailing, then the TUD is equal to the True Wind Direction.

Note: the compass information of the SC product range is not the information of where you are pointing at, but the information of the direction your boat is going.



TUD : addition of the true wind direction and the true influence of the current

As the SC200 is getting its information from a GPS engine, we are not able to sense the wind speed. What the SC200 is able to do is to show you that you are getting closer or not to the reference wind direction.

The tactical compass and the TUD information can be used when sailing up-wind.

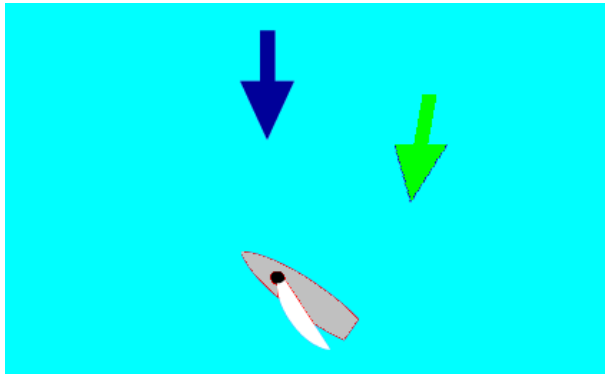
With a standard tactical compass, which has port tack and starboard tack lines, you are able to read the same number on either tack. Our SC200 product takes care also of the influence of the current to show you the course over the ground you are doing with an offset, so that you can also read the same number on either tack.

When you are sailing to starboard, then the SC200 adds half the tack angle and it subtracts half the tack angle when you are sailing to portside. You are always looking at the same number, whichever tack you are on.

Now you can decide whether the wind and the current are backing or veering your course.



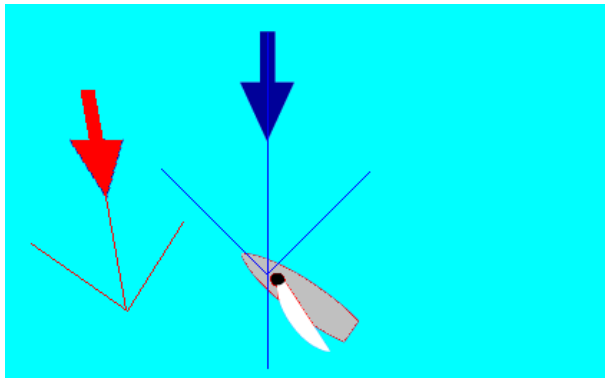
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The blue arrow represents the reference wind set in your system.

The green arrow represents the calculated TUD.

As you are sailing to startboard, the TUD value on your SC200 is increasing, Keep on sailing on this tack, you are getting closer to the upwind buoy!



The blue arrow represents the reference wind set in your system.

The red arrow represents the calculated TUD.

As you are sailing to startboard, the TUD value on your SC200 is decreasing, you have know everything to decide to tack because this actual tack is not the one which helps you get closer to the upwind buoy.

How to use the TUD VAR ?:

The TUD VAR is the graphical representation of the actual TUD value in comparison with the reference wind that has been set.

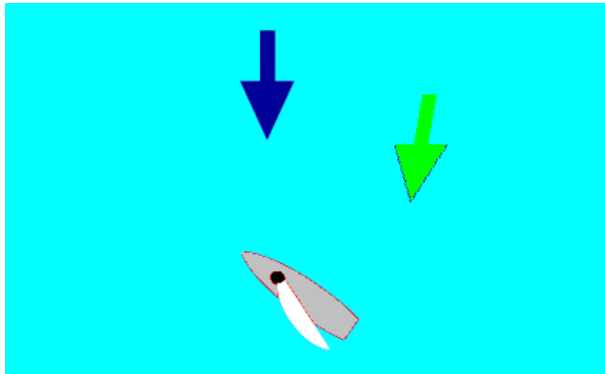
The display of the SC200 is divided into two parts representing startboard and port. When you are beating upwind and that the direction of the wind and the influence of the current is stable, then à 00 value is readable on the screen. Your TUD is not changing.

The bars show the side the TUD is shifting. If you have 3 bars on the right side of the screen, then your TUD has shifted 15 degrees to the right (also shown as +15). If you have 2 bars on the left of the screen, then you TUD has shifted 10 degrees to the left (also shown as -10).

When you are sailing on startboard, if you get bars on the right side of the screen (positive values), your SC200 shows you that you are getting closer to the upwind buoy.



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Because of the course over ground realized by the boat, which is 25° over the startboard course which has been set, the TUD VAR shows that this startboard tack is the best tack at the moment.

On the following screen, our boat is still sailing on startboard, but it looks as if the wind has taken a shift on the left. The course of the boat is now below the course which has been set. The SC200 displays that this tack is not the best to get closer to the upwind buoy : it's time to tack.

