



FURUNO

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CSH8L MK2 BASE SETTINGS

A GUIDE FOR BASIC SETUP FOR THE CSH8L MK2

SETTINGS

PRESET

The settings show below are an effective starting preset for the sonar. Examples of changes to these settings are reflected in additional screen captures.

NOTE: ONCE SET, IT IS NOT COMMON TO ALTER THE SONAR SETTINGS.

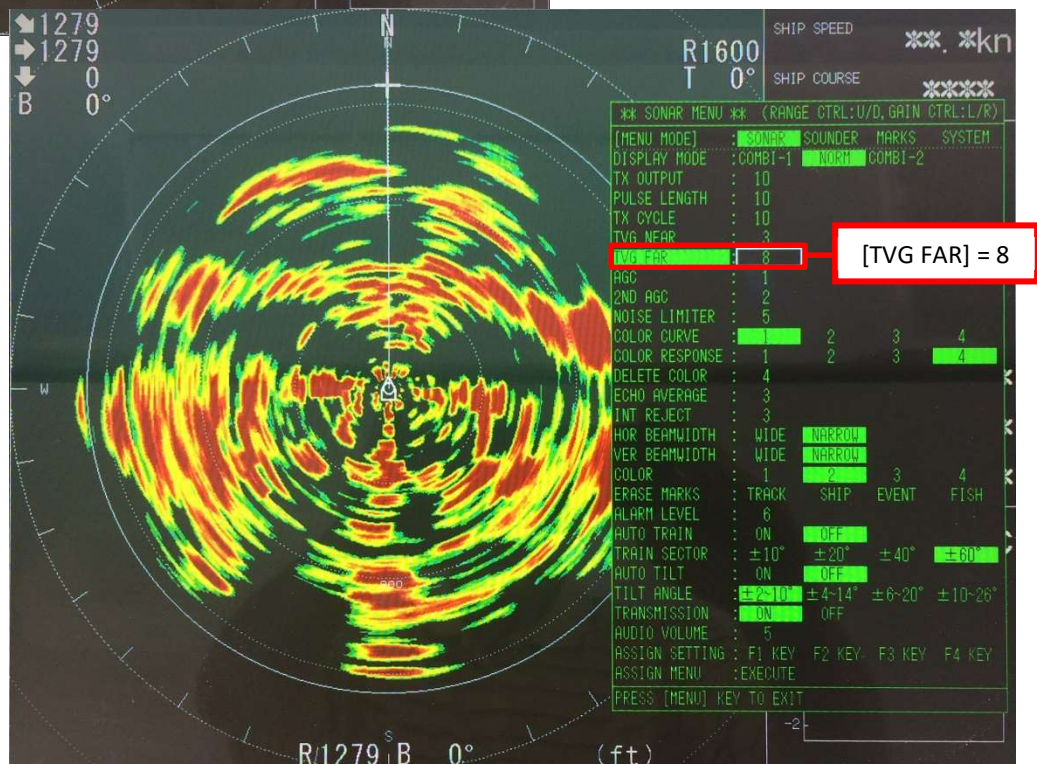
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** SONAR MENU ** (RANGE CTRL:U/D, GAIN CTRL:L/R)
[ MENU MODE ] : SONAR SOUNDER MARKS SYSTEM
DISPLAY MODE : COMBI-1 NORM COMBI-2
TX OUTPUT : 10
PULSE LENGTH : 10
TX CYCLE : 10
TVG NEAR : 3
TVG FAR : 8
AGC : 1
2ND AGC : 2
NOISE LIMITER : 5
COLOR CURVE : 1 2 3 4
COLOR RESPONSE : 1 2 3 4
DELETE COLOR : 4
ECHO AVERAGE : 3
INT REJECT : 3
HOR BEAMWIDTH : WIDE NARROW
VER BEAMWIDTH : WIDE NARROW
COLOR : 1 2 3 4
ERASE MARKS : TRACK SHIP EVENT FISH
ALARM LEVEL : 6
AUTO TRAIN : ON OFF
TRAIN SECTOR : ±10° ±20° ±40° ±60°
AUTO TILT : ON OFF
TILT ANGLE : ±2~10° ±4~14° ±6~20° ±10~26°
TRANSMISSION : ON OFF
AUDIO VOLUME : 5
ASSIGN SETTING : F1 KEY F2 KEY F3 KEY F4 KEY
ASSIGN MENU : EXECUTE
PRESS [MENU] KEY TO EXIT
  
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TVG - TIME VARIED GAIN

The 8L has two TVG controls: [TVG NEAR] and [TVG FAR]. [TVG NEAR] controls the sonars gain from 0-900ft, [TVG FAR] controls at 900ft and further. A higher value results in a stronger long-range return.

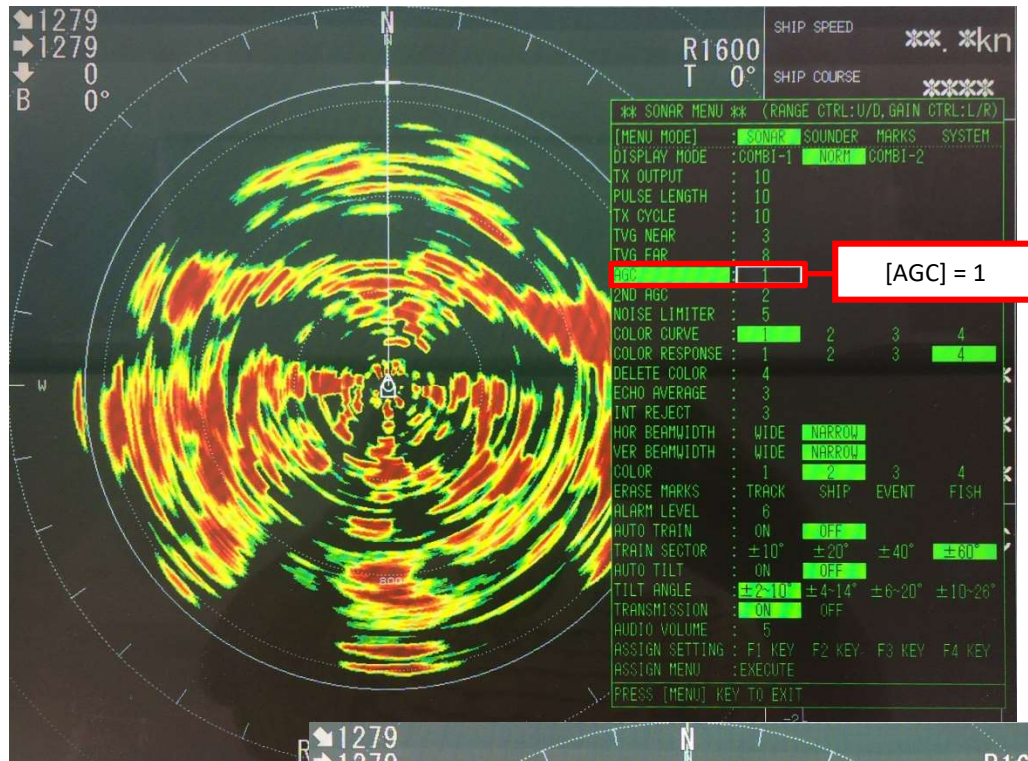
SET [TVG FAR] BETWEEN 6 AND 8 INITIALLY.



AGC – AUTOMATIC GAIN CONTROL

[AGC] automatically lowers the 8L's gain when strong returns are detected, such as the seabed. A higher [AGC] setting results in more defined long-range targets.

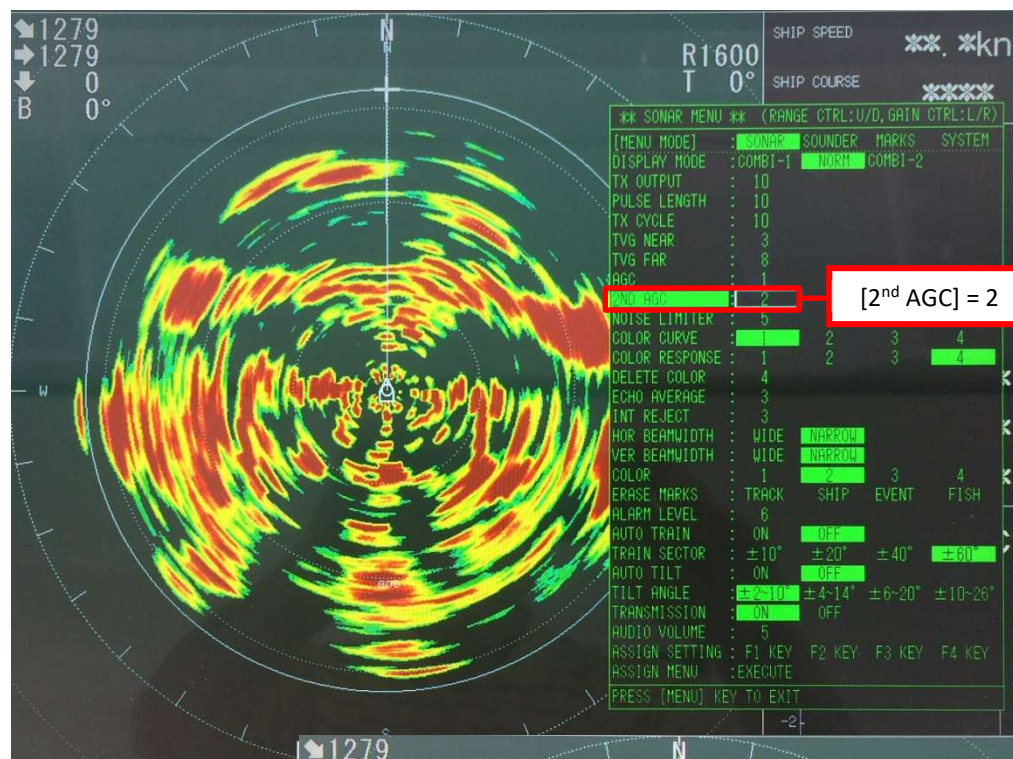
SET [AGC] TO 1 INITIALLY.



2ND ACG – SECOND AUTOMATIC GAIN CONTROL

[2nd ACG] works in conjunction with the [AGC]. [2nd ACG] increases the sonars gain after it was decreased by a strong seabed return. Similarly to [AGC], a higher [2nd ACG] setting results in reduced long-range gain.

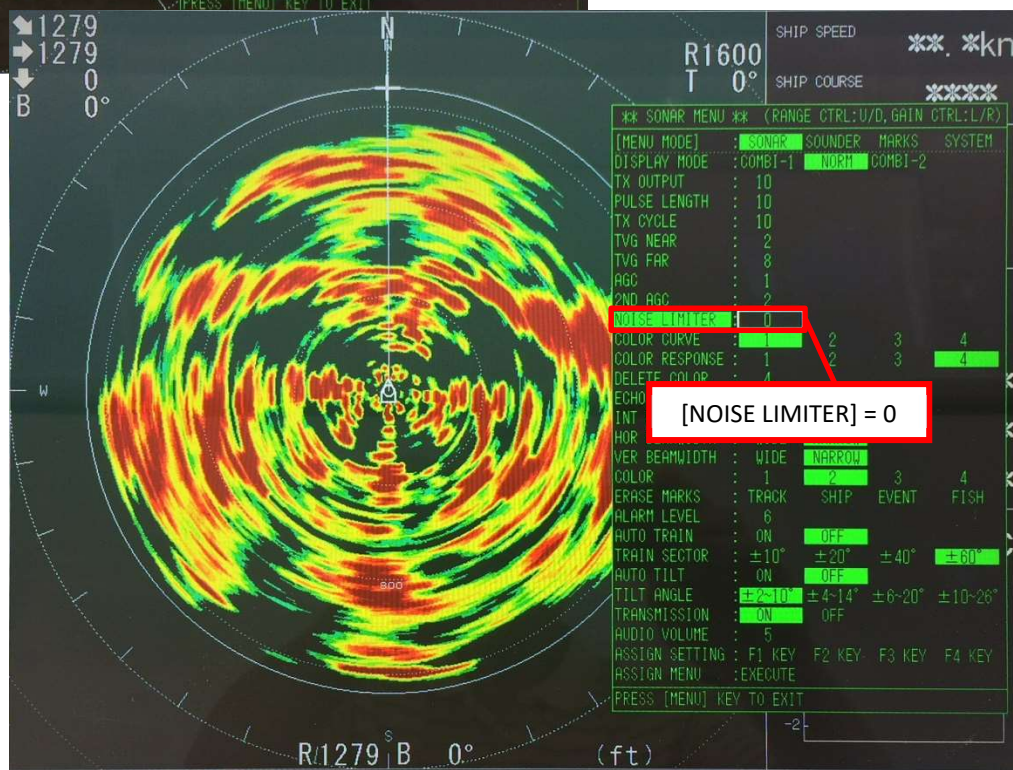
SET [2ND ACG] TO 2 INITIALLY.



NOISE LIMITER

The [NOISE LIMITER] eliminates noise or clutter from the sonar display. This setting has limited effect on sonar returns.

SET [NOISE LIMITER] TO 5 INITIALLY.

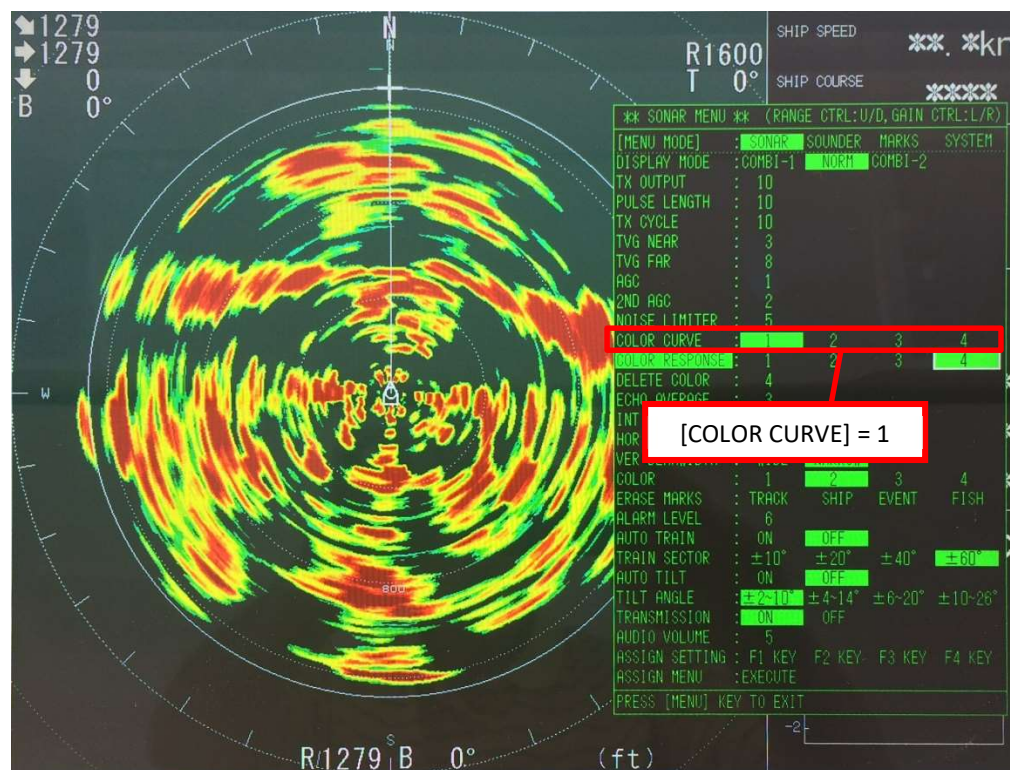


COLOR SETTINGS

COLOR CURVE

Sonar returns show small changes when the [COLOR CURVE] is modified.

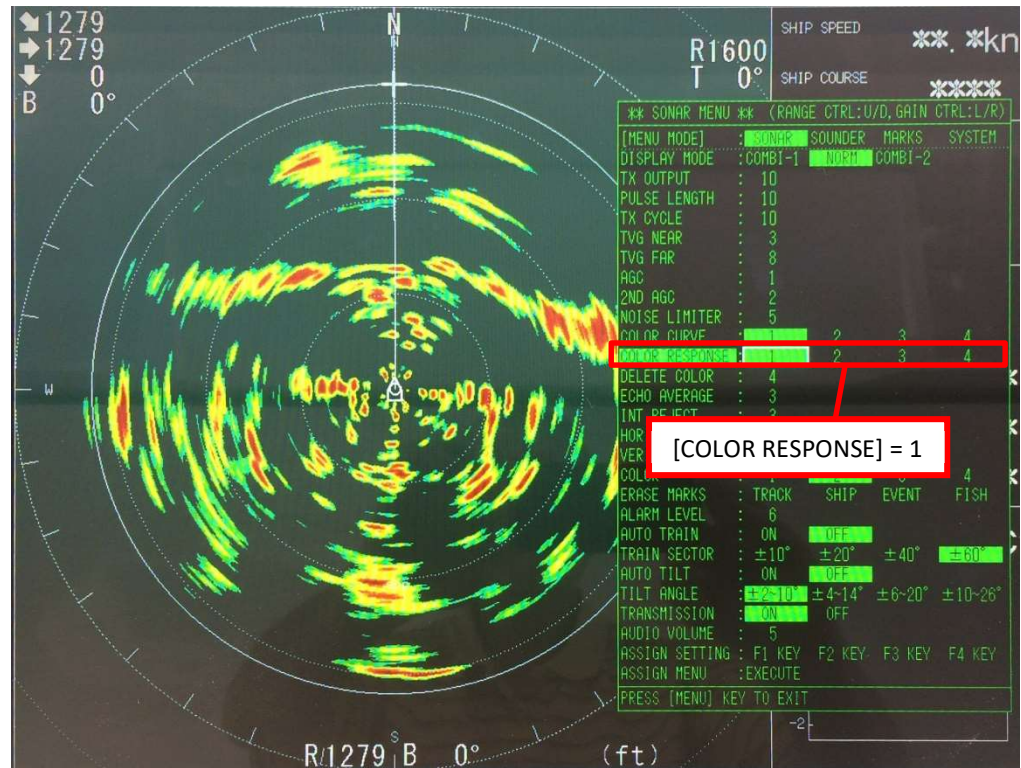
SET [COLOR CURVE] TO 1 INITIALLY.



COLOR RESPONSE

The four [COLOR RESPONSE] settings will have more of an effect on the sonar returns.

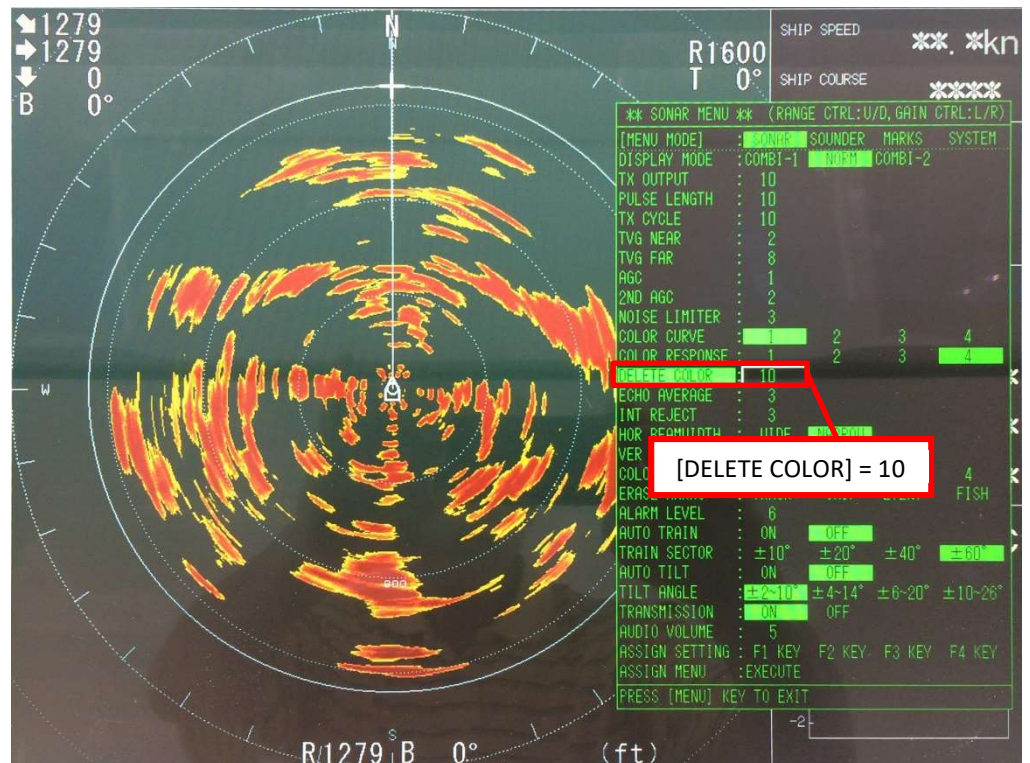
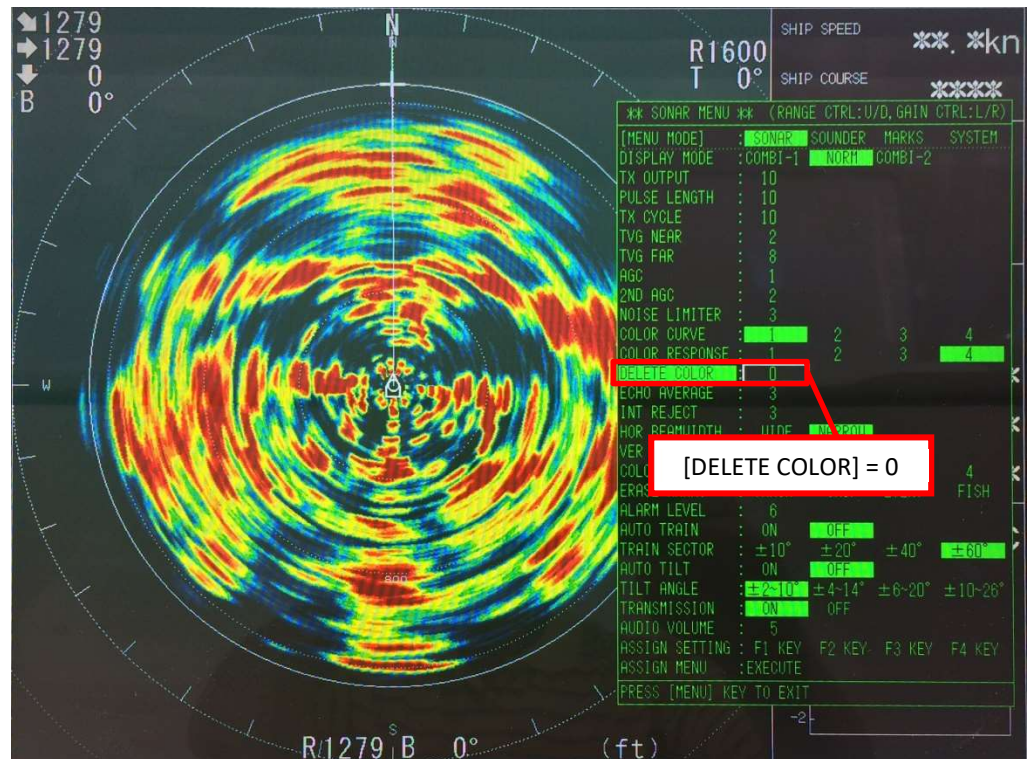
SET [COLOR RESPONSE] TO 4 INITIALLY.



DELETE COLOR

[DELETE COLOR] is used to remove weaker targets.

SET [DELETE COLOR] TO 4 INITIALLY.



ECHO AVERAGE

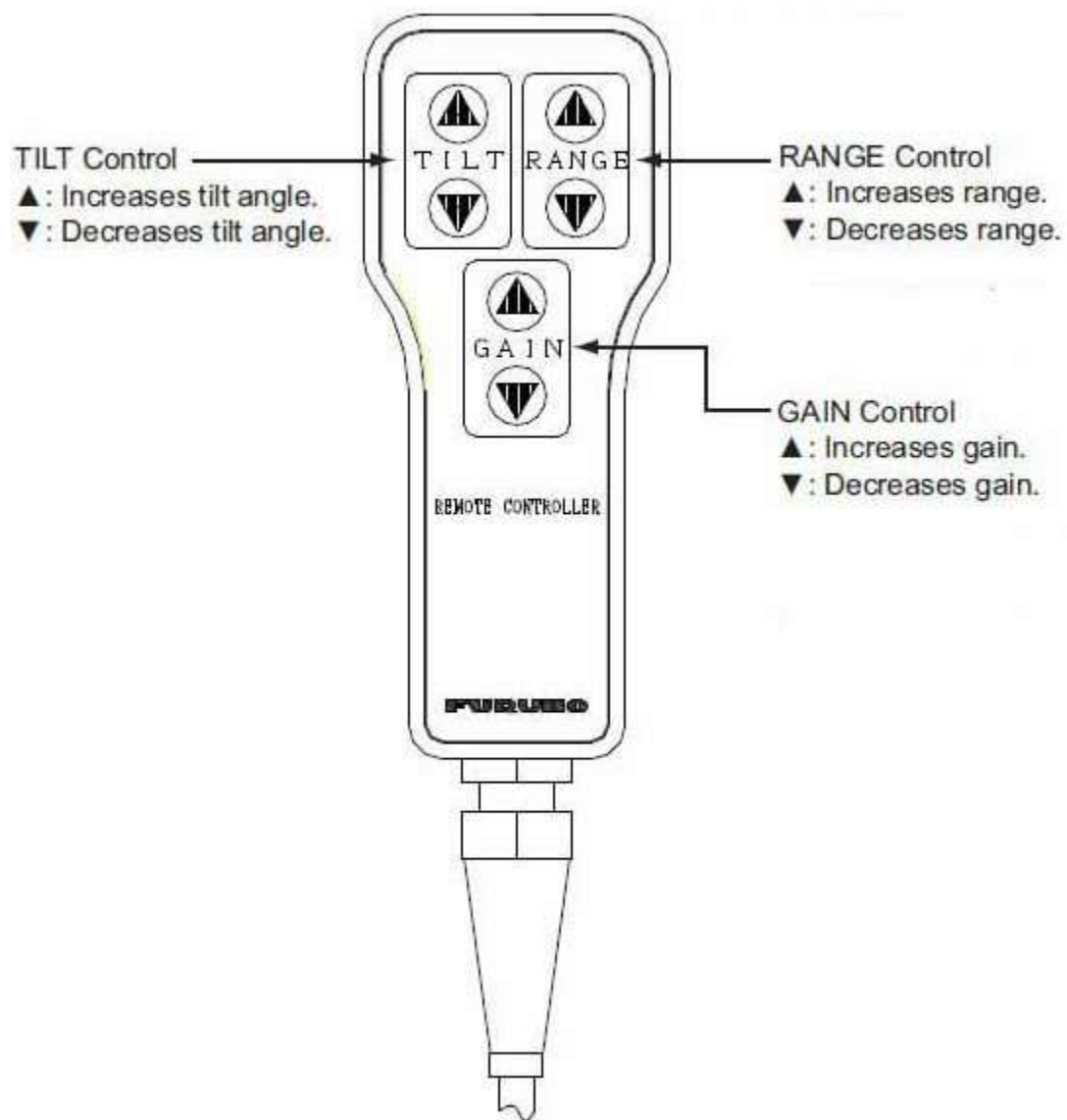
[ECHO AVERAGE] eliminates interference from other sounders and smooths target variations between transmission cycles.

SET [ECHO AVERAGE] TO 2 OR 3 INITIALLY.

CSH7040 REMOTE CONTROL

Standard operation can be managed from the CSH7040 remote control.

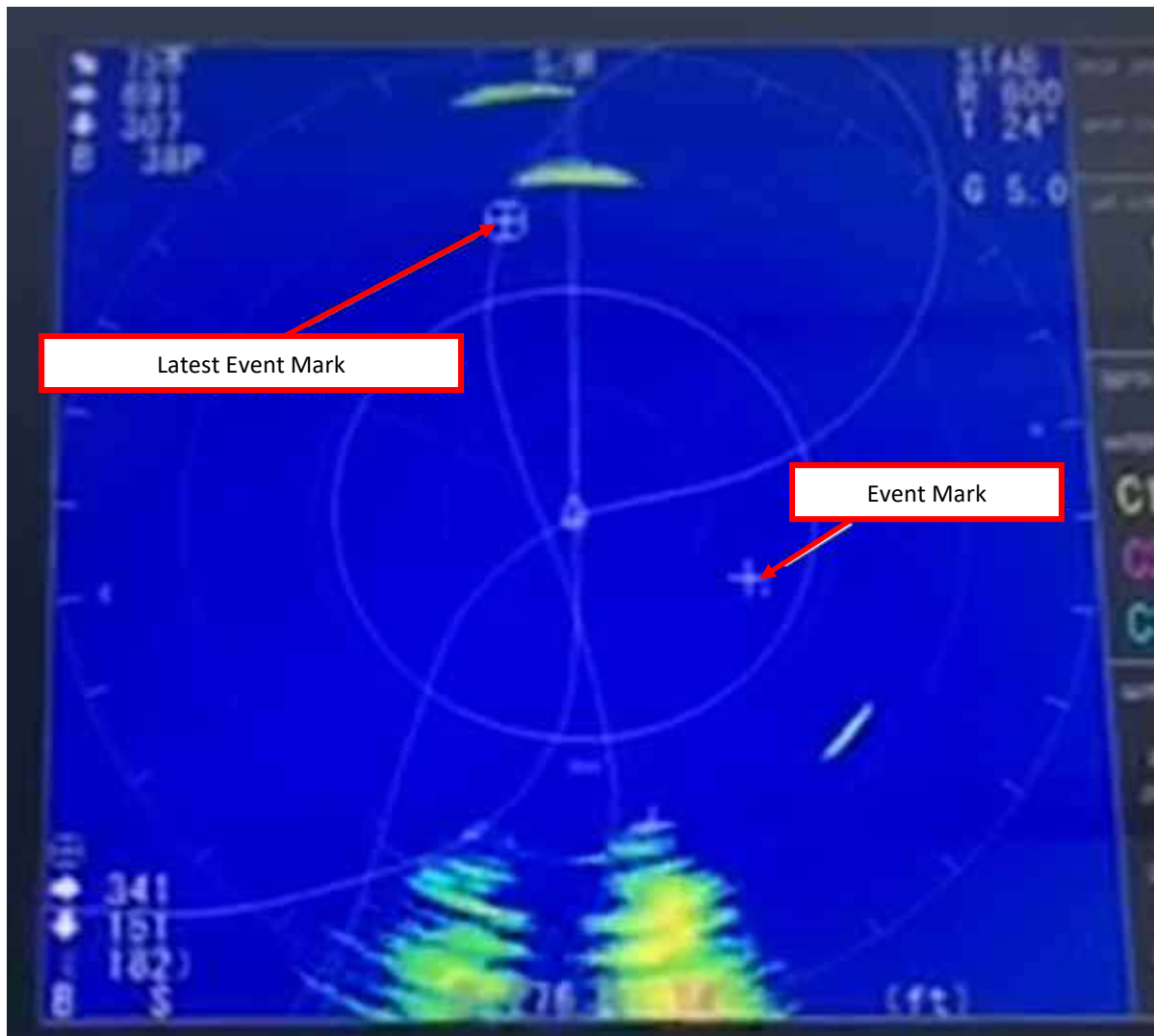
Some vessels may use two remote controls. If two remotes are installed, an A/B switch will be required to select the controller in-use.



ADDITIONAL FUNCTIONS

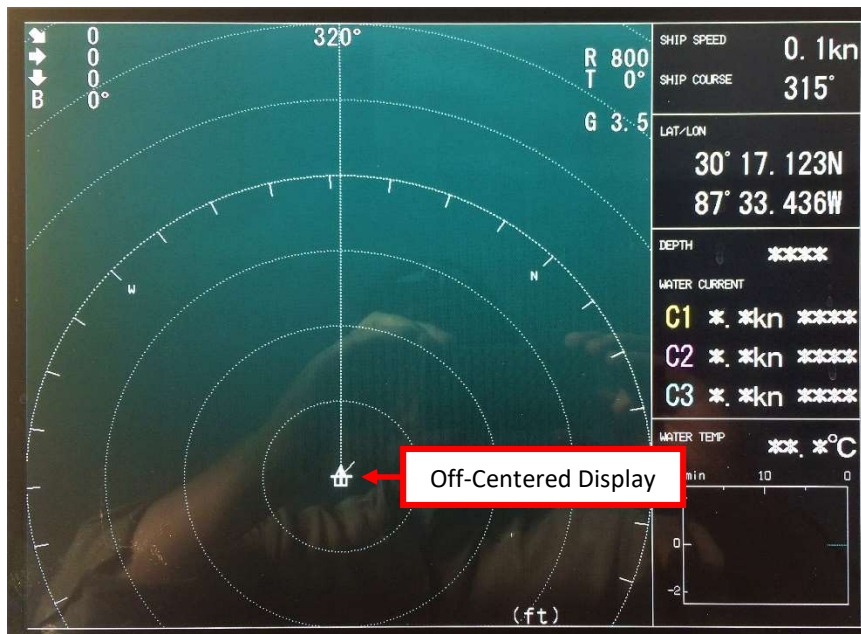
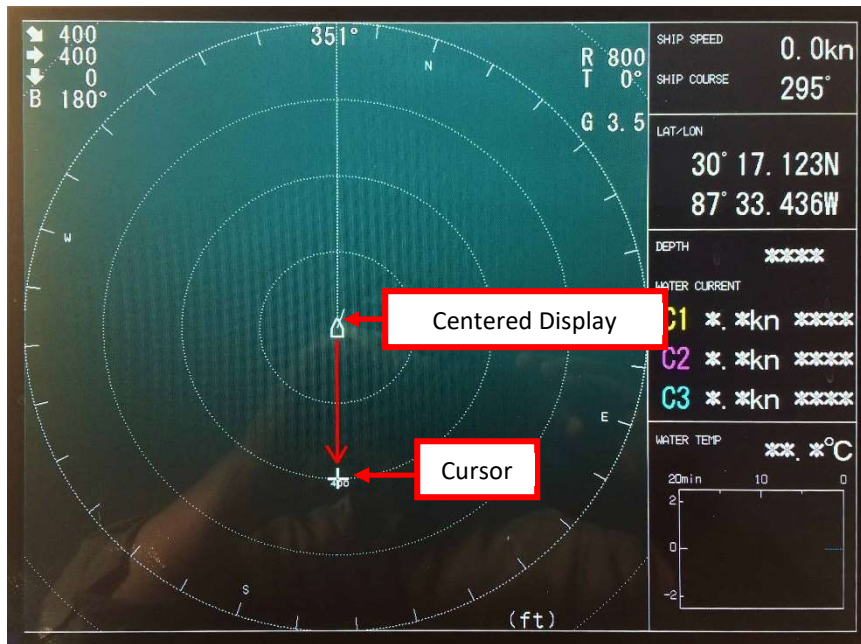
TRACK LINE AND EVENT MARKS

The Track Line displays the vessels past track. The Event Mark is a reference point compared to the vessel's current location. The Track Line length can be selected to be either 5x or 10x the range set on the sonar. The sonar has up to 10 Event Marks, numbered for reference. The 11th Mark will erase Mark number 1. The Range and Bearing to the latest Event Mark is always displayed in the bottom left hand corner of the display.



OFF CENTER

To Off-Center the display, move the cursor to any location on the echo display and push the [Off-Center] button. This will off-center the display to the cursor's location. Pushing the [Off-Center] button again, will return the display to its original location.



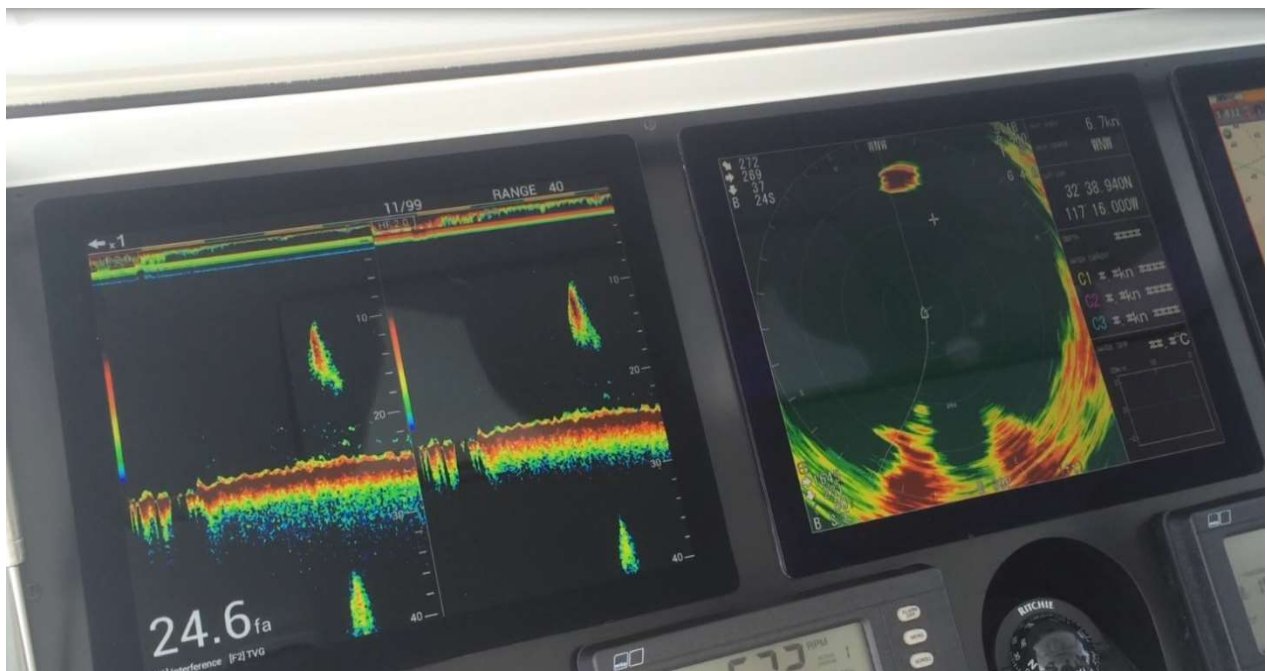
ECHO INTERPRETATION

Below are some examples of echo returns.

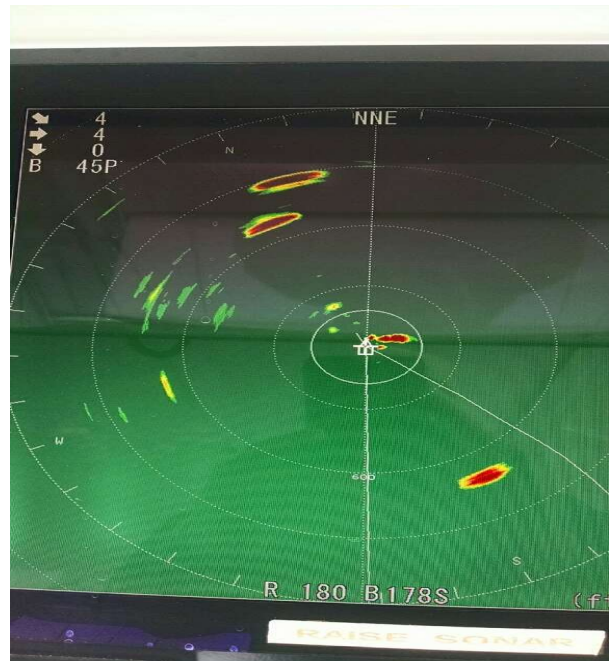
CURRENT RIP



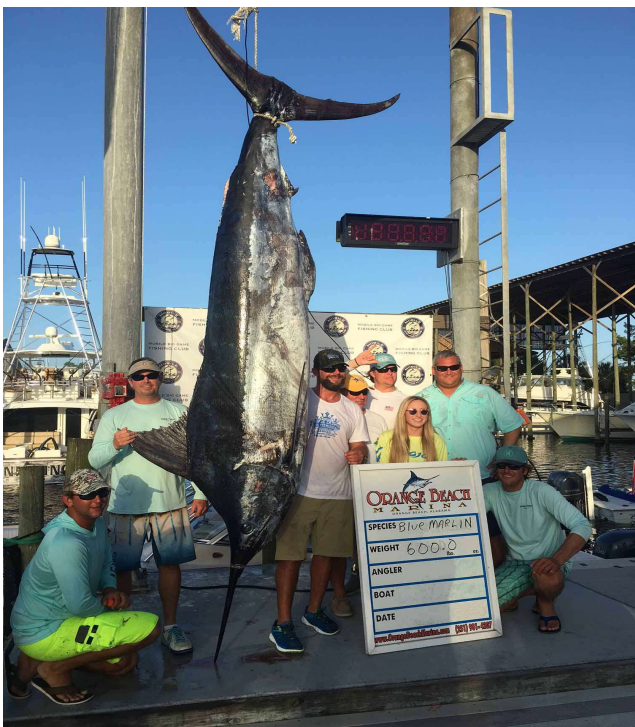
BAIT



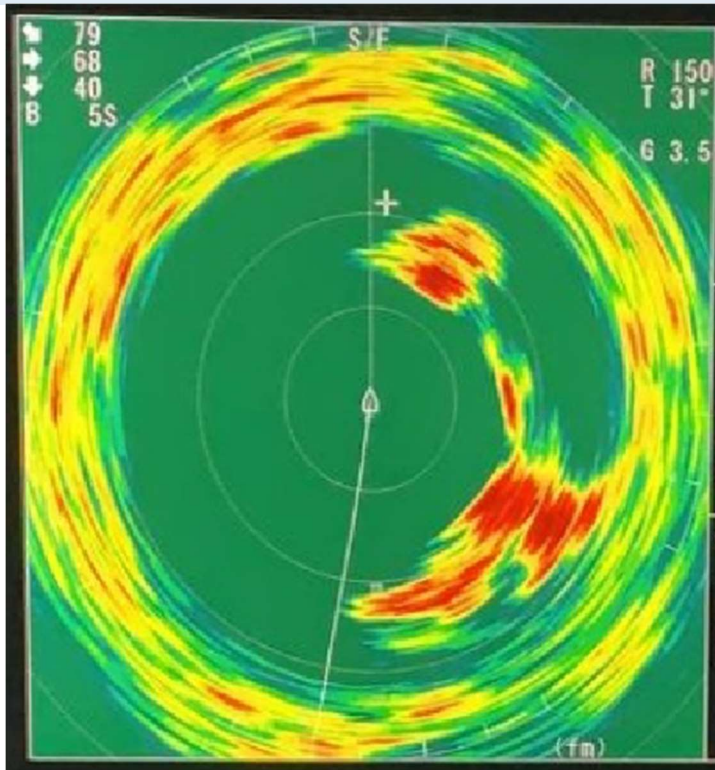
BLUE FIN TUNA



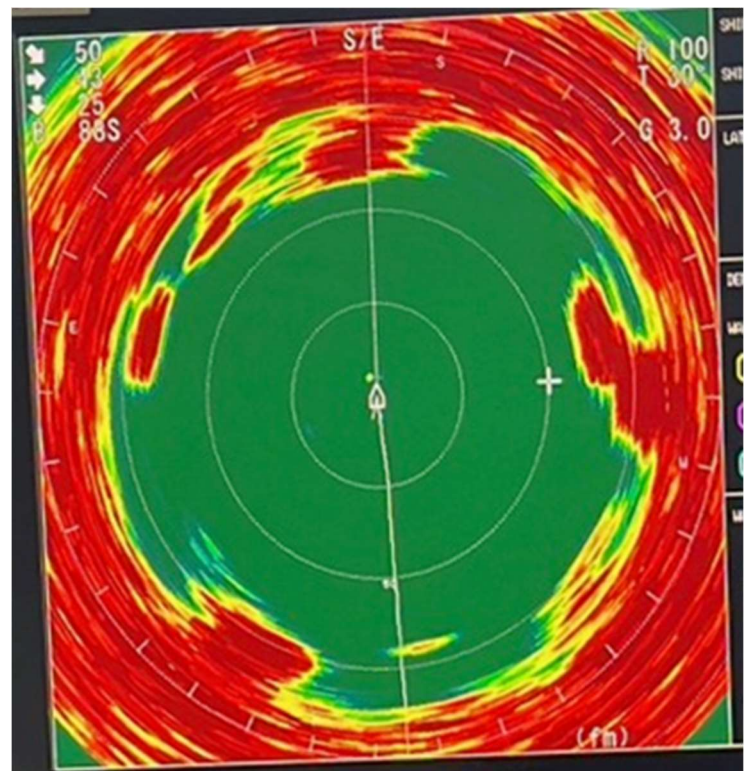
MARLIN



HAKE

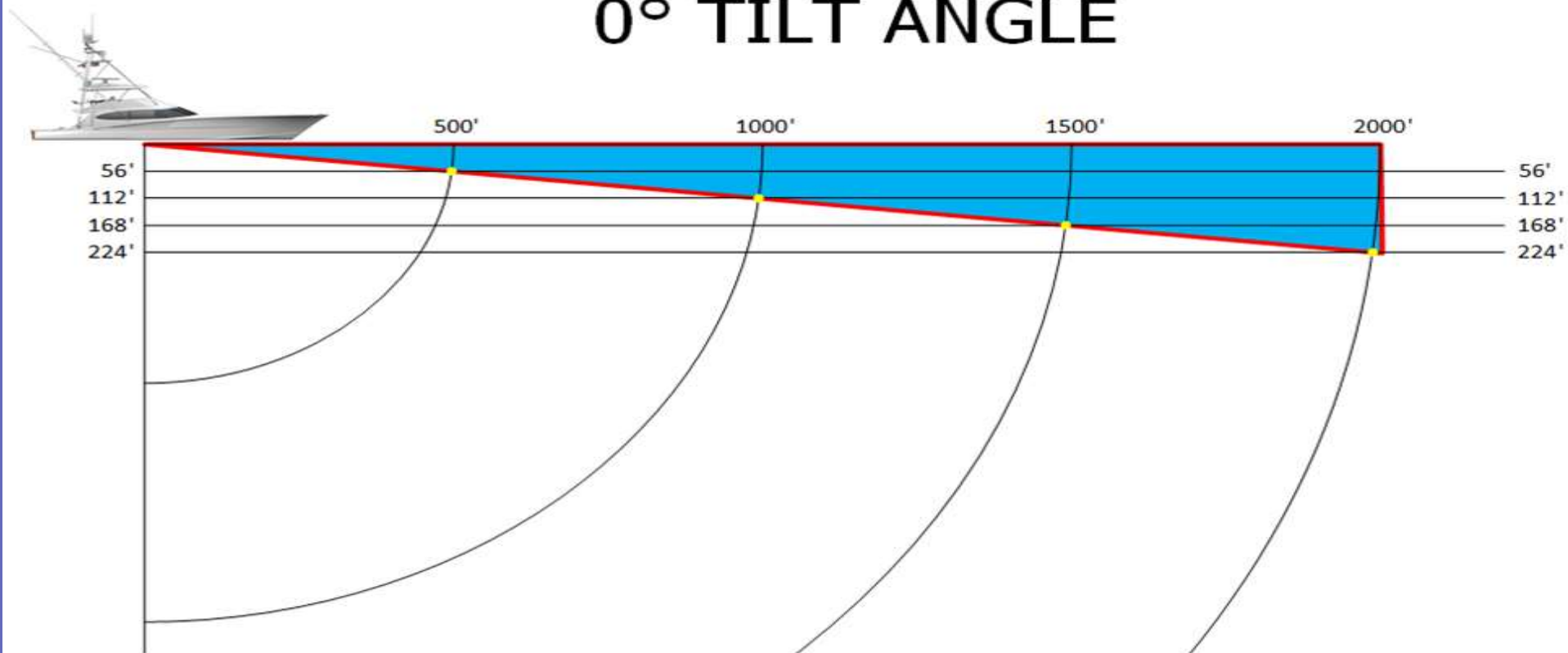


POLLOCK

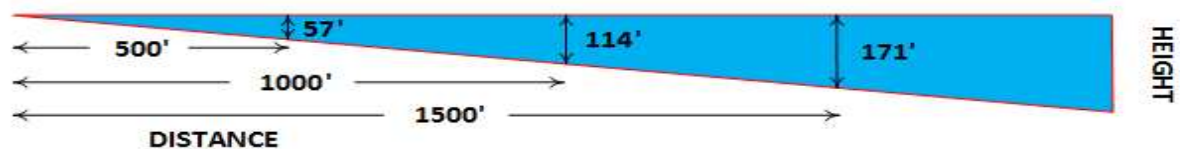


TILT ANGLES

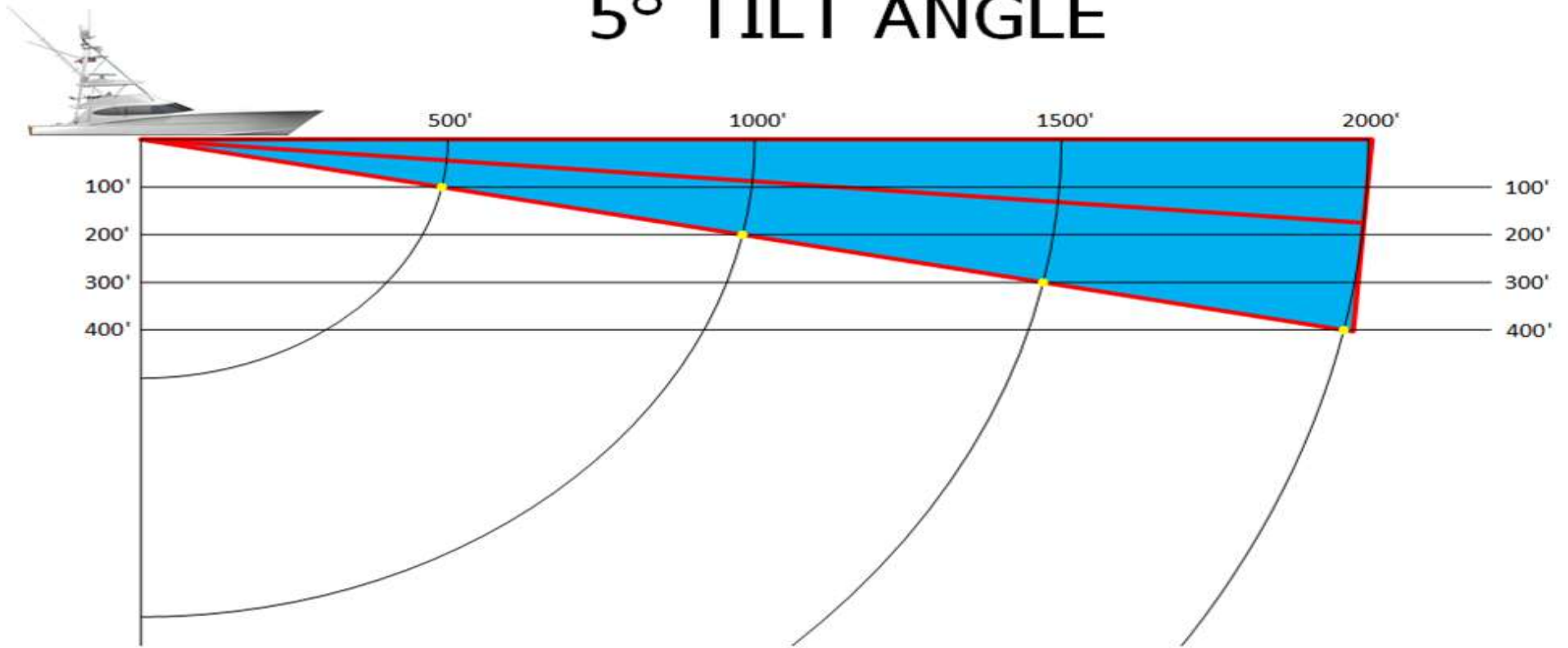
0° TILT ANGLE



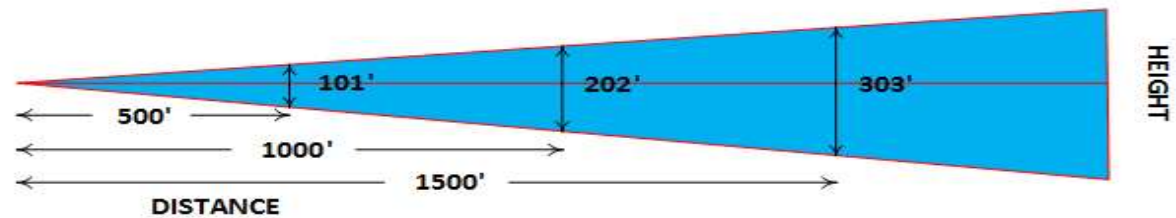
VERTICAL BEAM COVERAGE



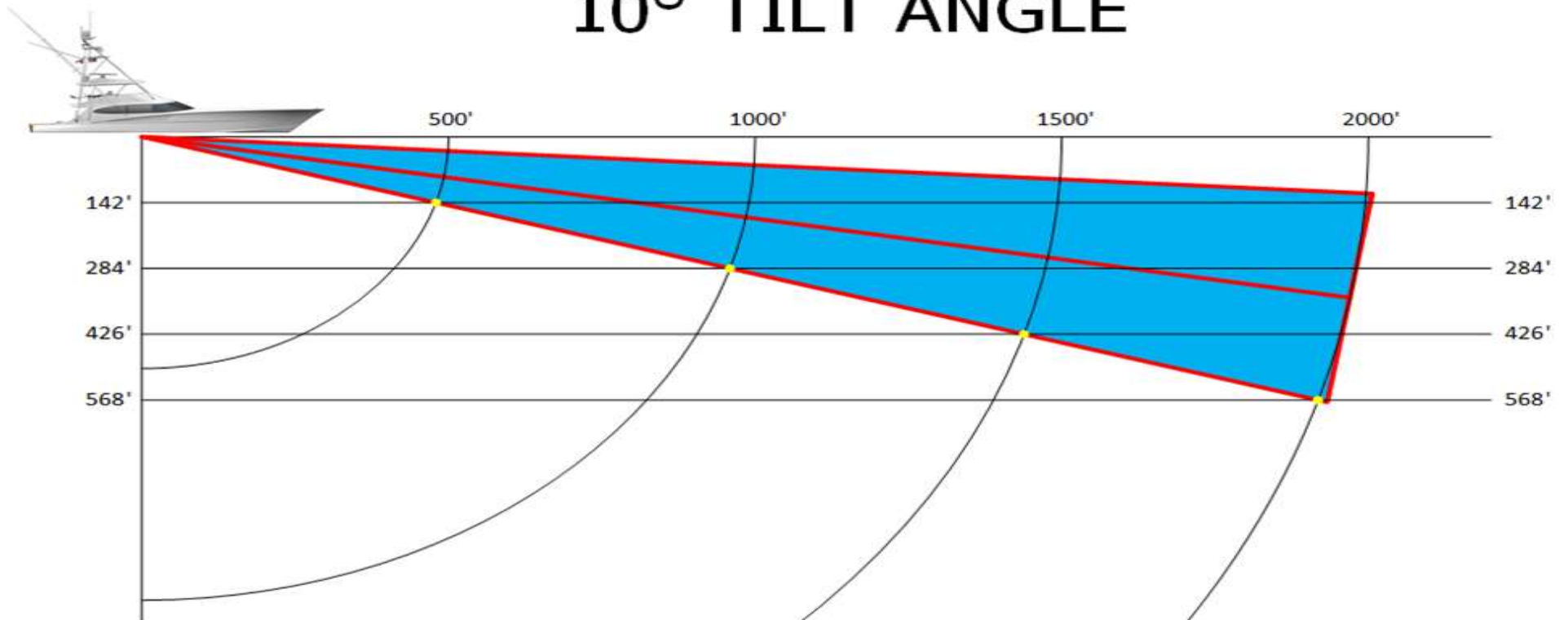
5° TILT ANGLE



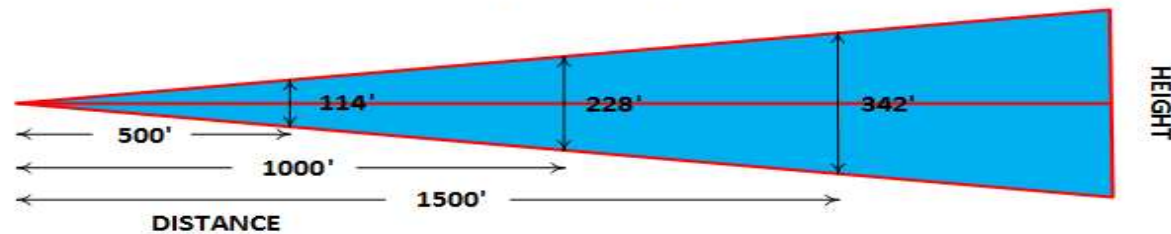
VERTICAL BEAM COVERAGE



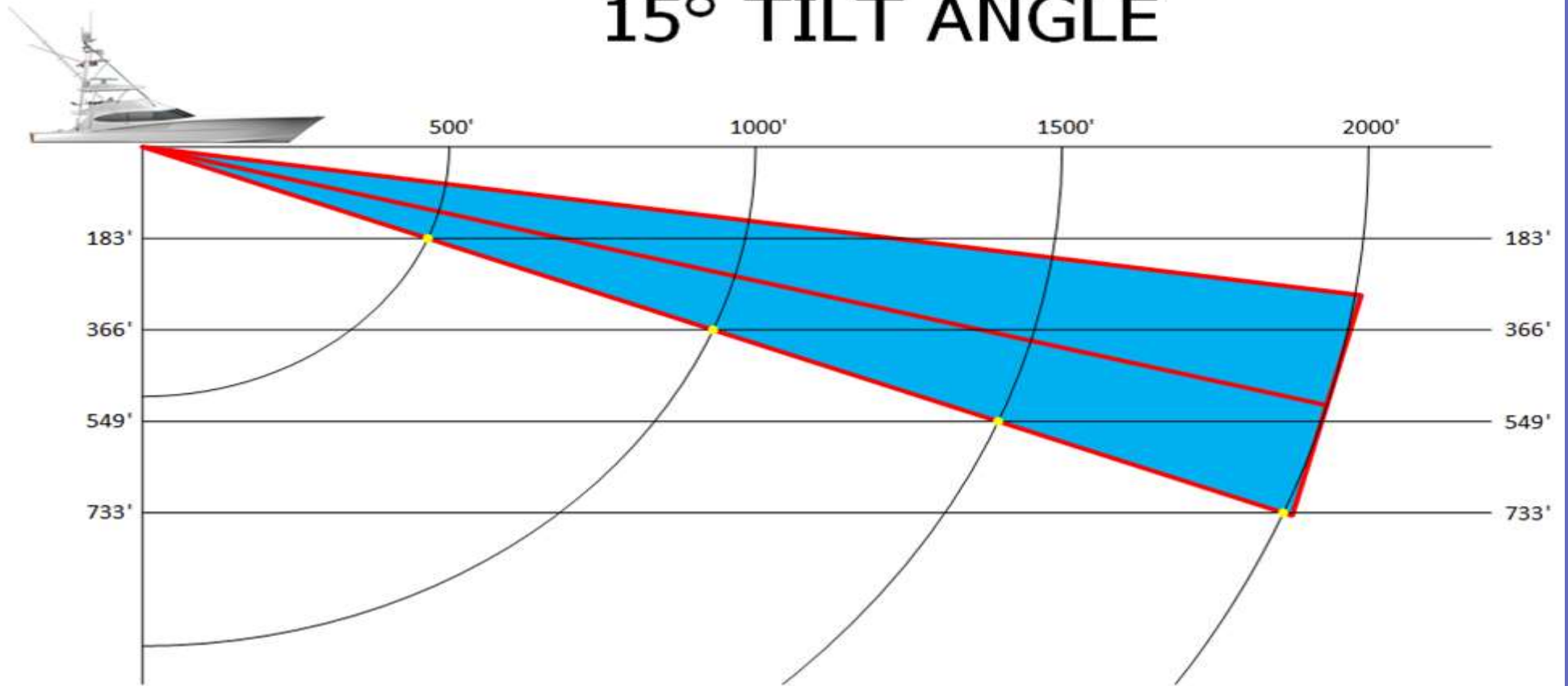
10° TILT ANGLE



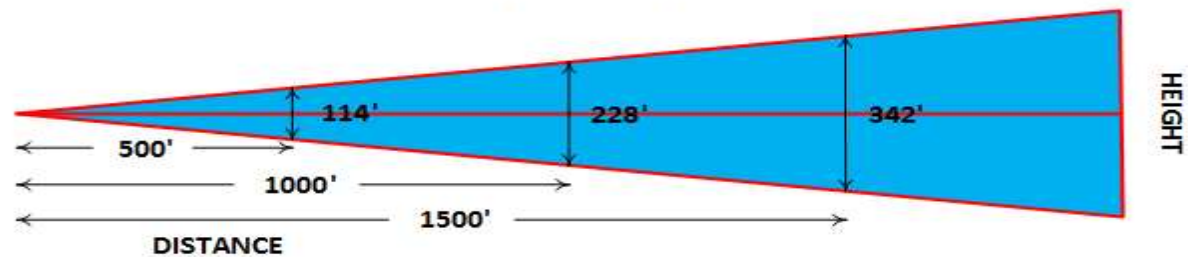
VERTICAL BEAM COVERAGE



15° TILT ANGLE



VERTICAL BEAM COVERAGE



20° TILT ANGLE

