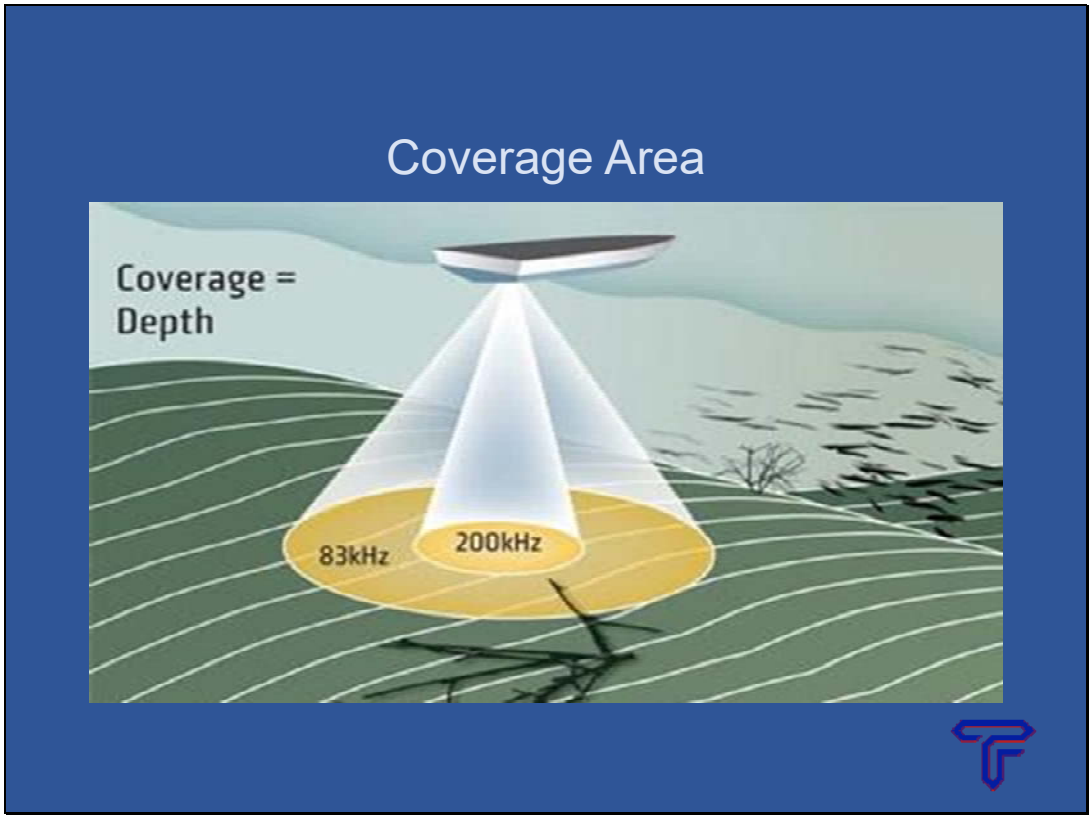
Slide 1

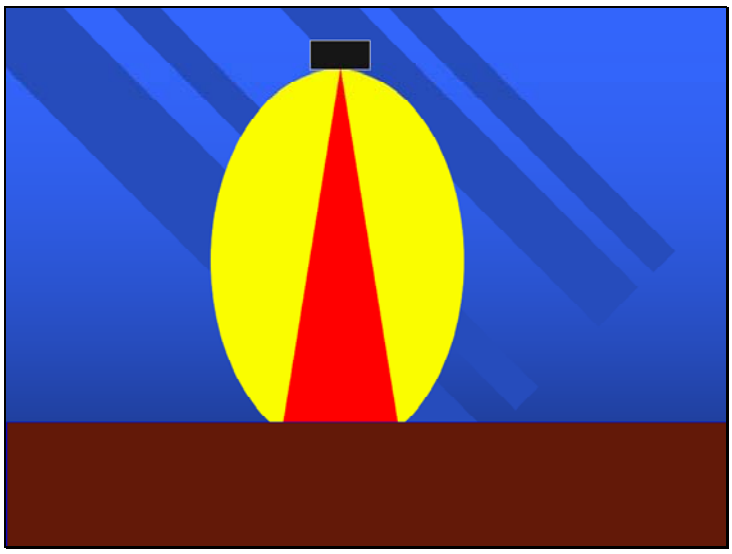


Slide 2

Coverage Area

DEPTH	CENTER 200 KhZ	EDGE 200 KhZ	DIFFERENCE		DEPTH	CENTER 50 kHz	EDGE 50 kHz	DIFFERENCE
20’	20’	20’5”	5”		20’	20’	21’6”	1’6”
40’	40’	40’8”	8”		40’	40’	43’6”	3’6”
60’	60’	61’	1’		60’	60’	65’	5’
80’	80’	81’3”	1’3”		80’	80’	86’6”	6’6”
100’	100’	101’7”	1’7”		100’	100’	108’5”	8’5”
120’	120’	121’9”	1’9”		120’	120’	129’3”	9’3”
150’	150’	152’3”	2’3”		150’	150’	161’7”	11’7”

Slide 3



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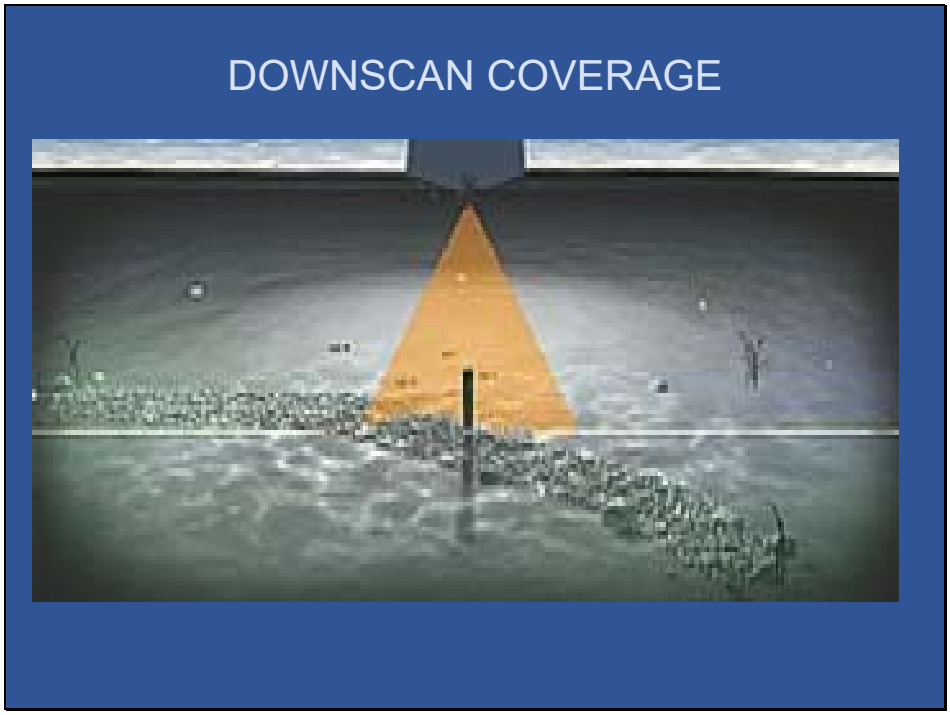
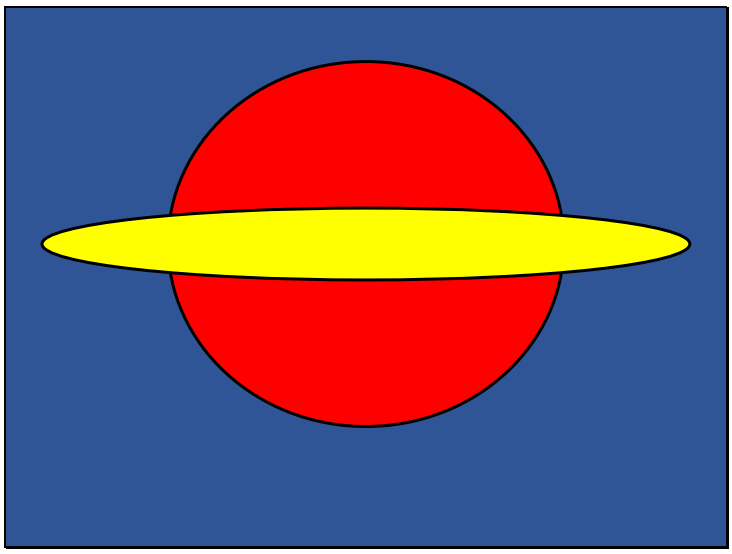
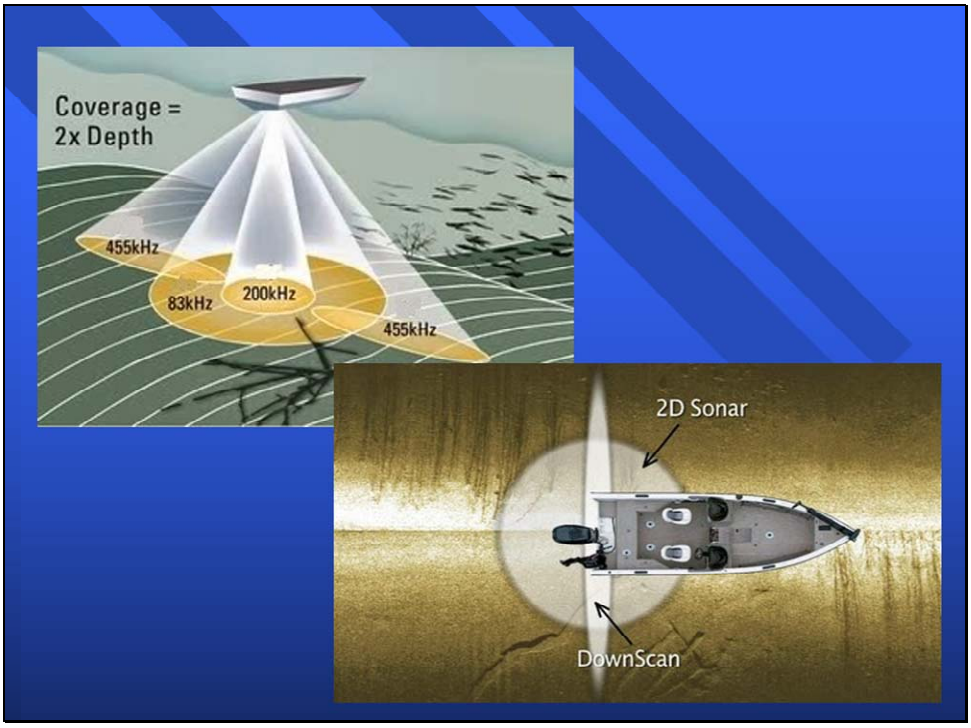
Slide 4



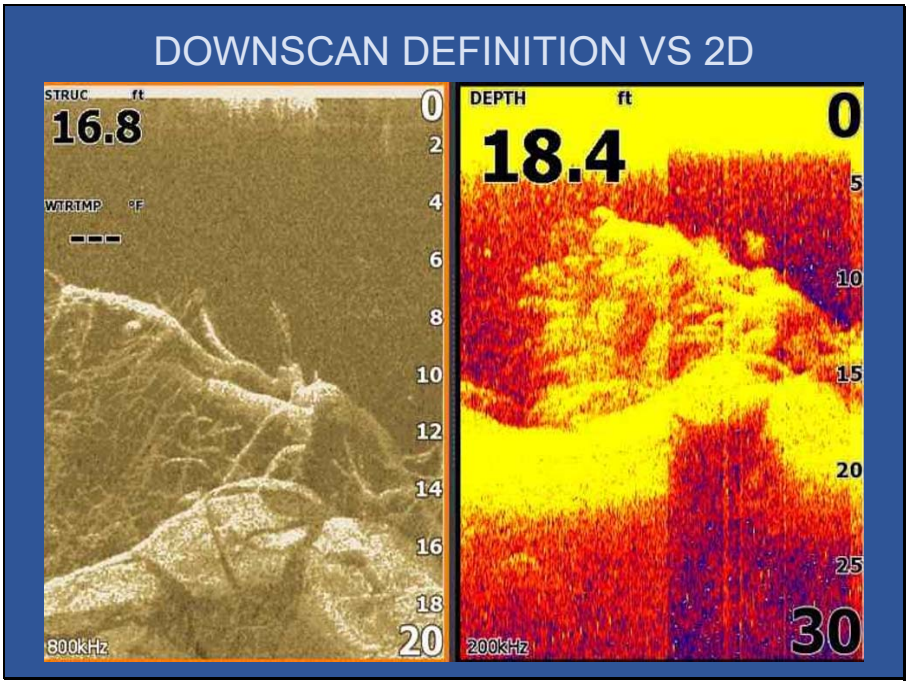
Slide 5



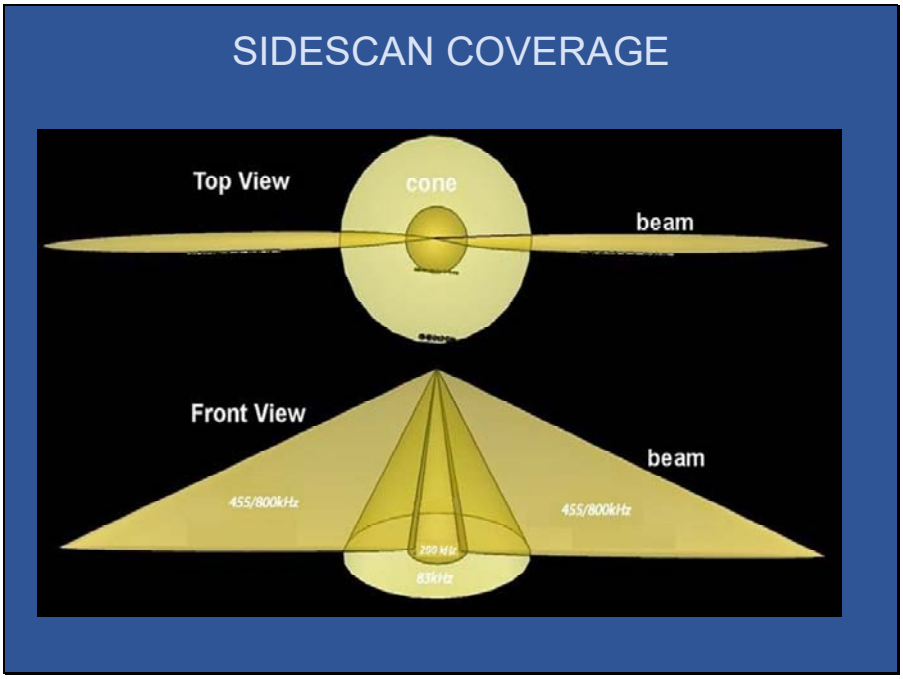
Slide 6


Coverage =
2x Depth
455kHz
83kHz
200kHz
455kHz
2D Sonar
DownScan

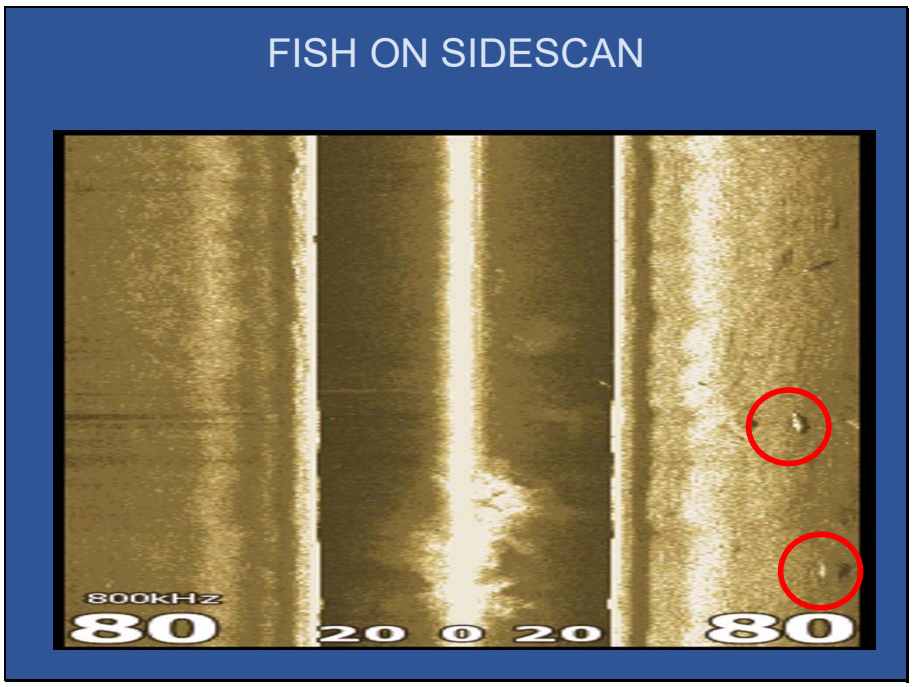
Slide 7


DOWNSCAN DEFINITION VS 2D
STRUC ft
16.8
WTR TMP °F
0
2
4
6
8
10
12
14
16
18
20
800kHz
DEPTH ft
18.4
0
5
10
15
20
25
30
200kHz

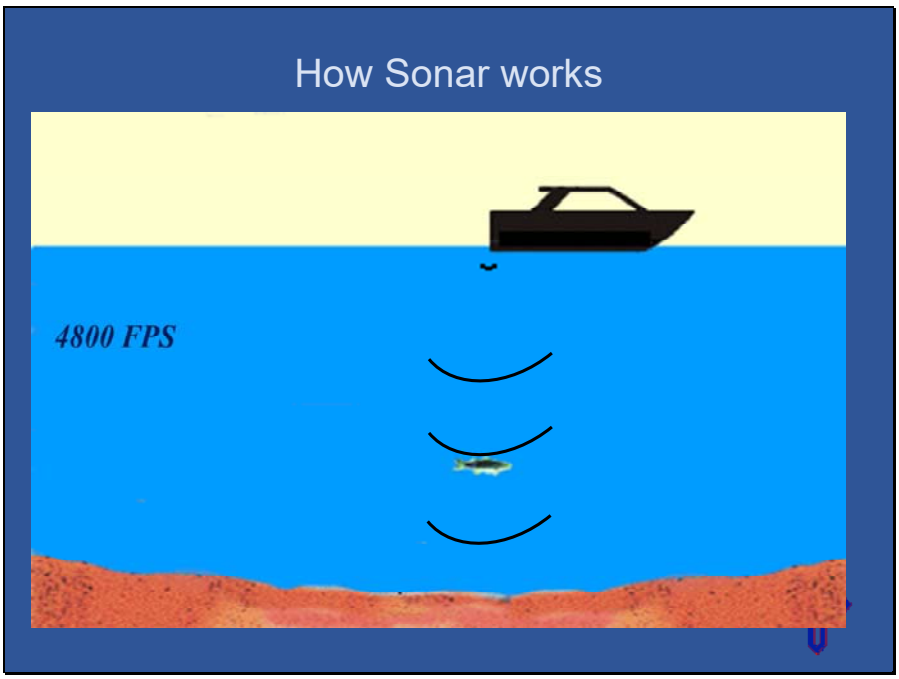
Slide 8


SIDESCAN COVERAGE
Top View
cone
beam
Front View
beam
455/800kHz
455/800kHz
200 kHz
83kHz

Slide 9



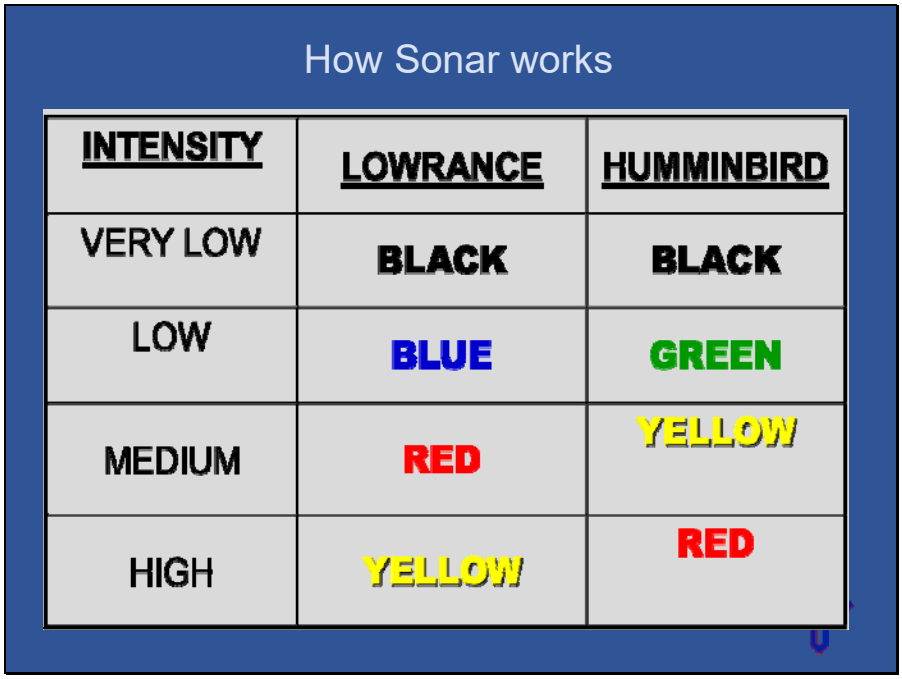
Slide 10



Slide 11

DISTANCE AND INTENSITY
DISTANCE FROM TX
LOW
HIGH
INTENSITY (SIZE OR HARDNESS)

Slide 12


How Sonar works
INTENSITY
LOWRANCE
HUMMINBIRD
VERY LOW
BLACK
BLACK
LOW
BLUE
GREEN
MEDIUM
RED
YELLOW
HIGH
YELLOW
RED

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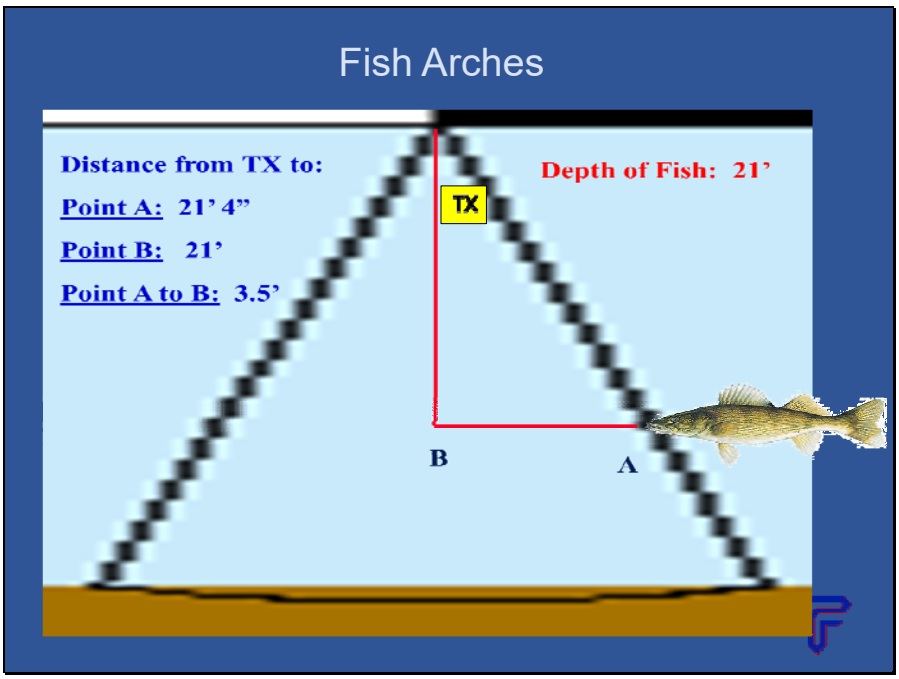
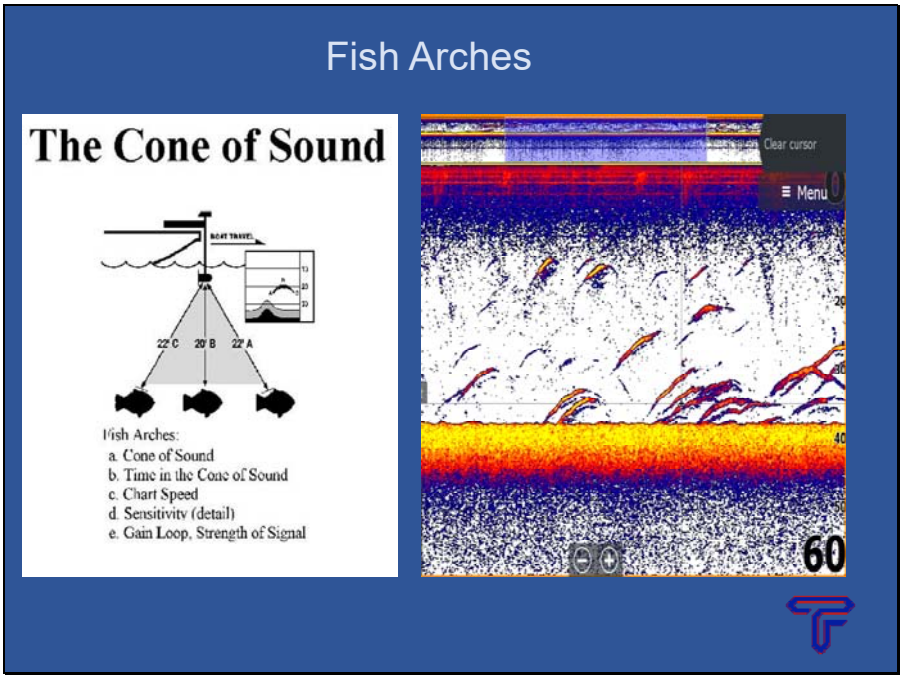
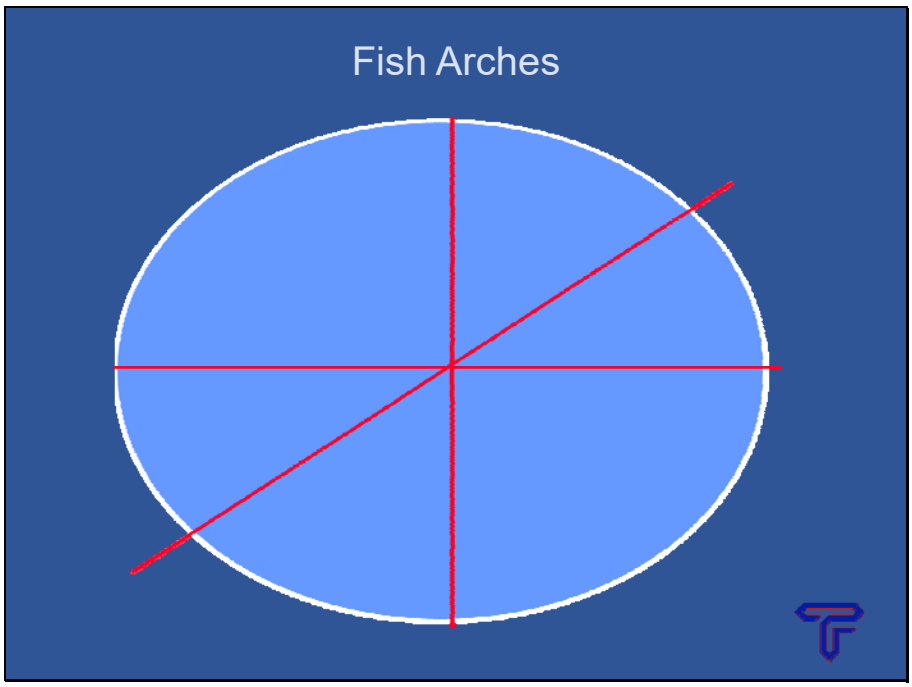
Slide 13


Fish Arches
Distance from TX to:
Point A: 21' 4"
Point B: 21'
Point A to B: 3.5'
Depth of Fish: 21'
TX
B
A

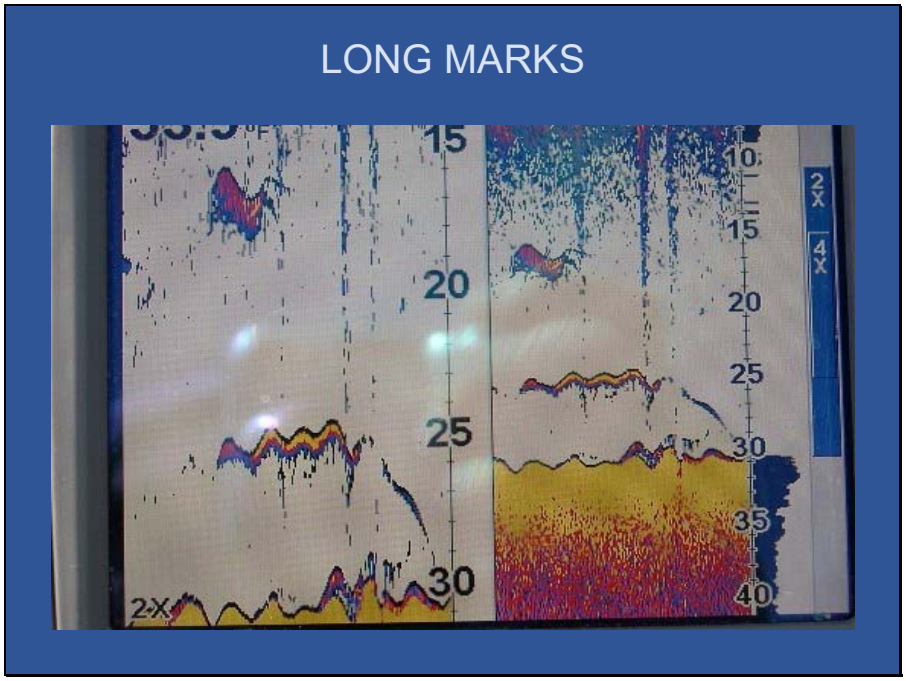
Slide 14


Fish Arches
The Cone of Sound
22° C
20° B
22° A
Fish Arches:
a. Cone of Sound
b. Time in the Cone of Sound
c. Chart Speed
d. Sensitivity (detail)
e. Gain Loop, Strength of Signal
Clear cursor
Menu
60

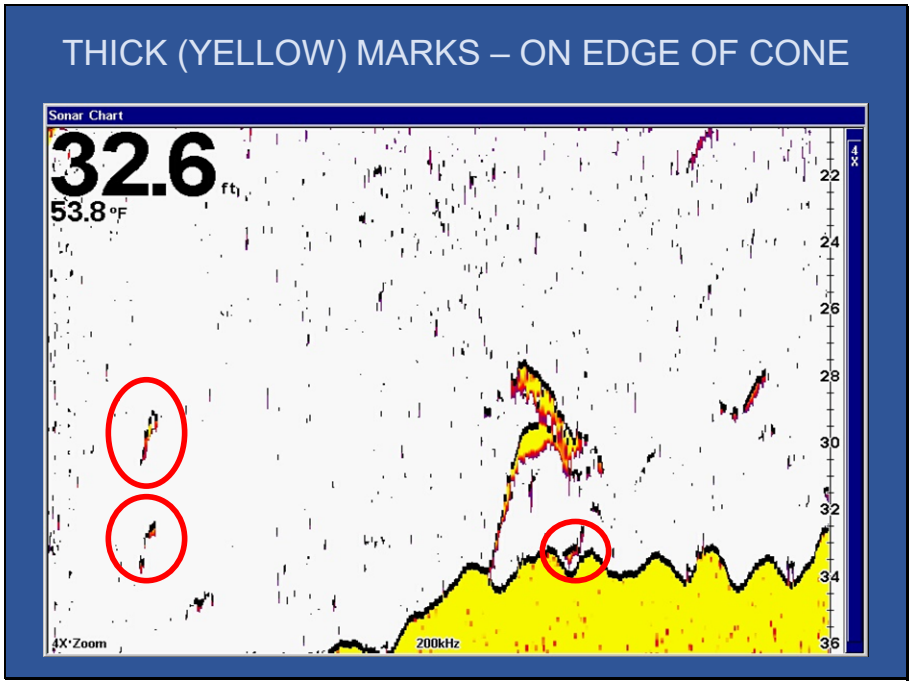
Slide 15



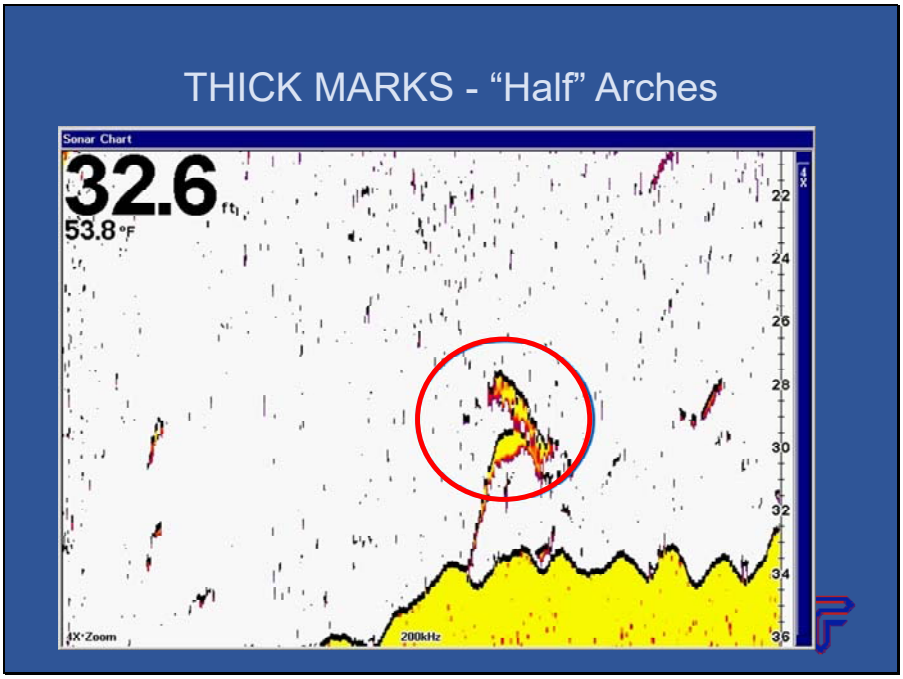
Slide 16



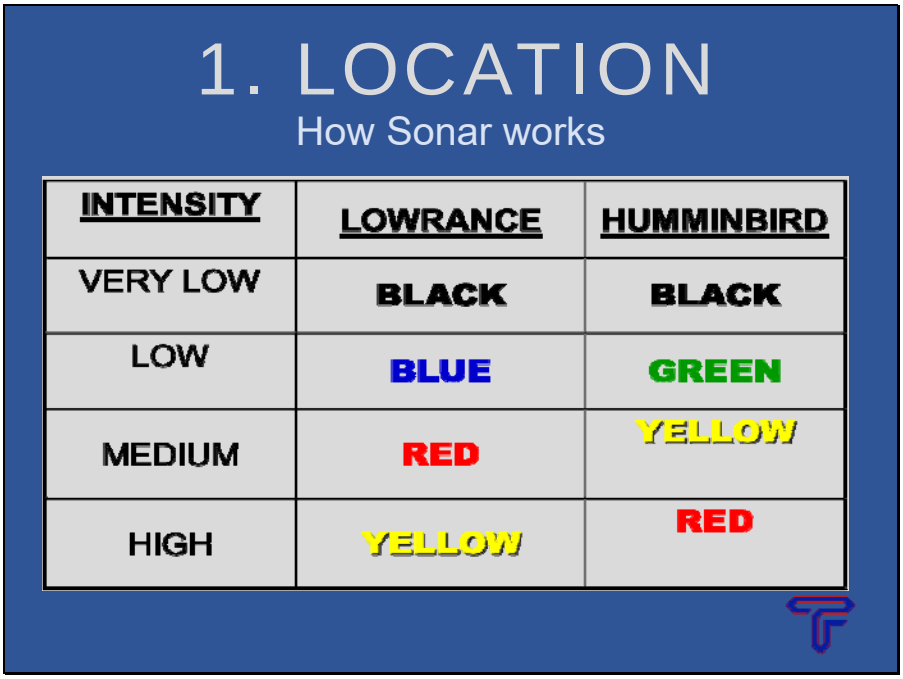
Slide 17


THICK (YELLOW) MARKS – ON EDGE OF CONE
Sonar Chart
32.6 ft
53.8 °F
22
24
26
28
30
32
34
36
4X Zoom
200kHz

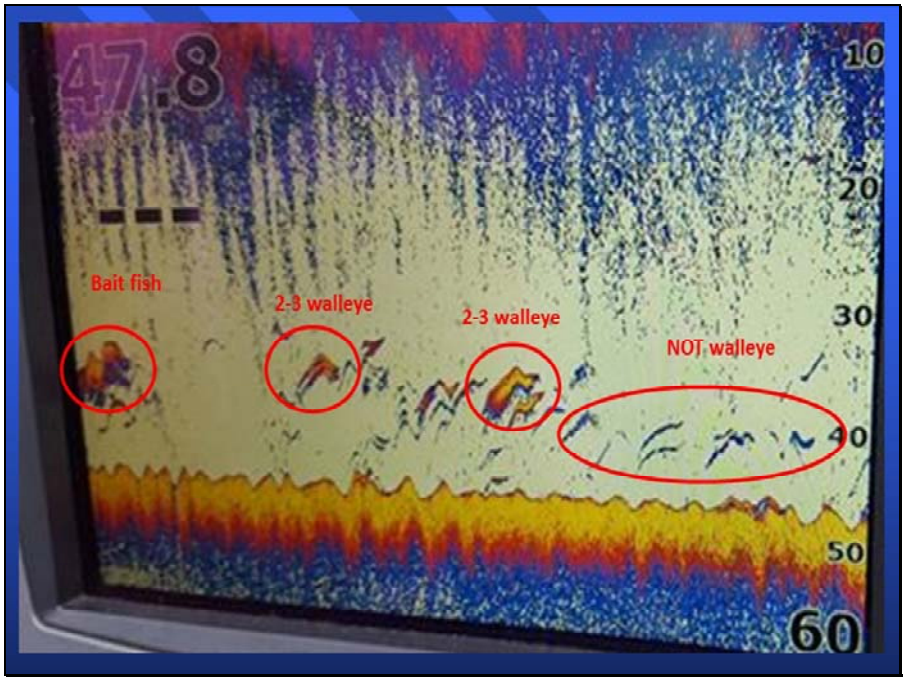
Slide 18


THICK MARKS - “Half” Arches
Sonar Chart
32.6
ft
53.8 °F
22
24
26
28
30
32
34
36
4X Zoom
200kHz

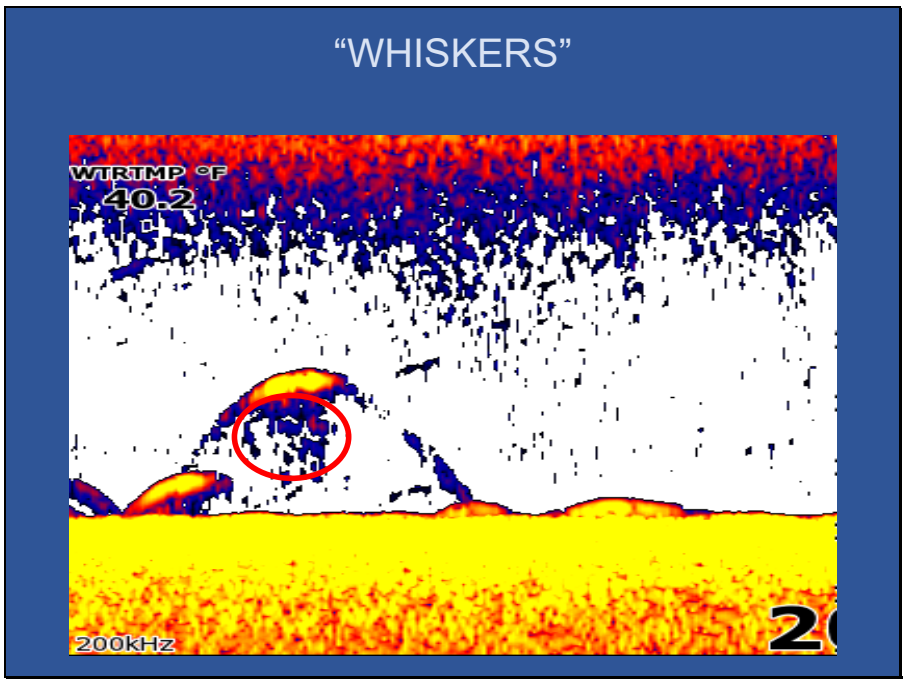
Slide 19


1. LOCATION
How Sonar works
INTENSITY
LOWRANCE
HUMMINBIRD
VERY LOW
BLACK
BLACK
LOW
BLUE
GREEN
MEDIUM
RED
YELLOW
HIGH
YELLOW
RED

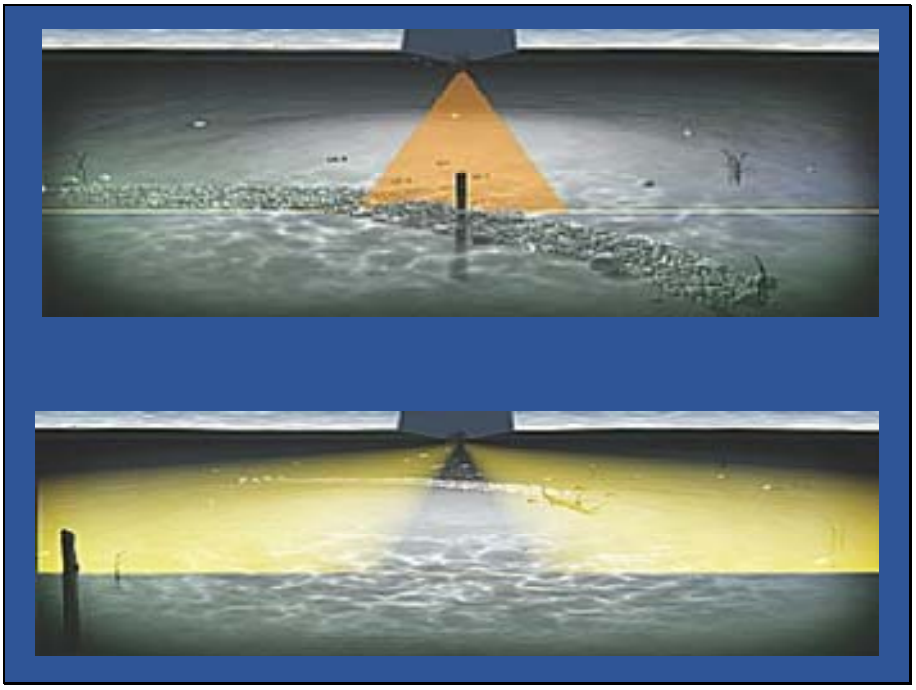
Slide 20


47.8
10
20
30
40
50
60
Bait fish
2-3 walleye
2-3 walleye
NOT walleye

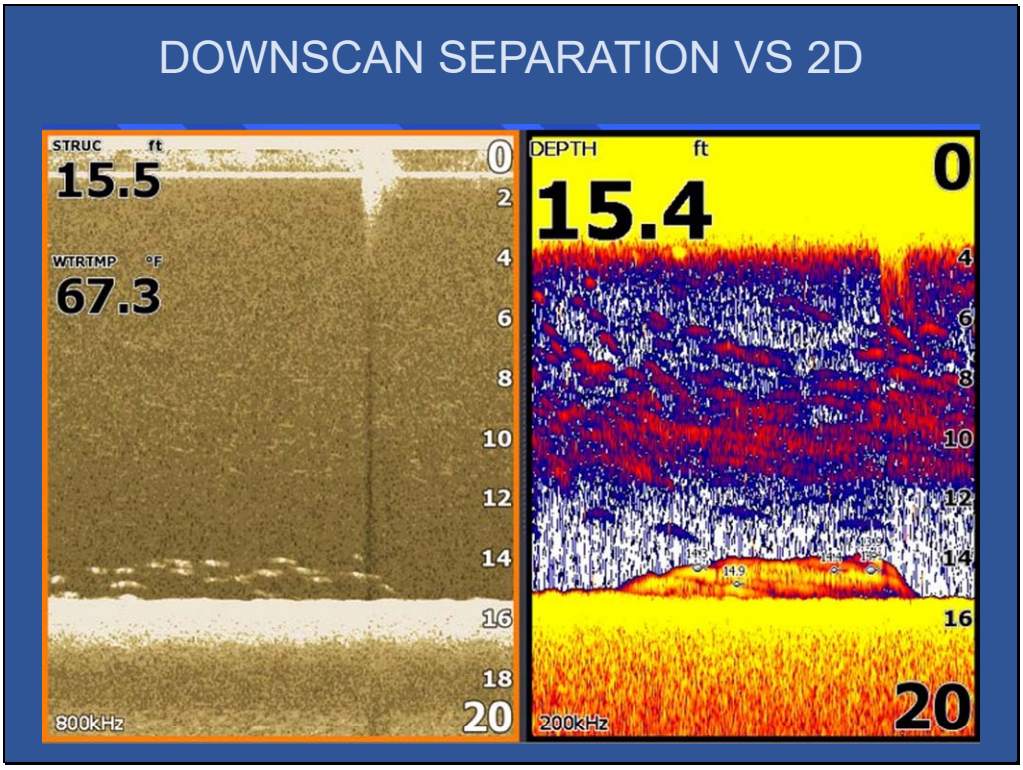
Slide 21



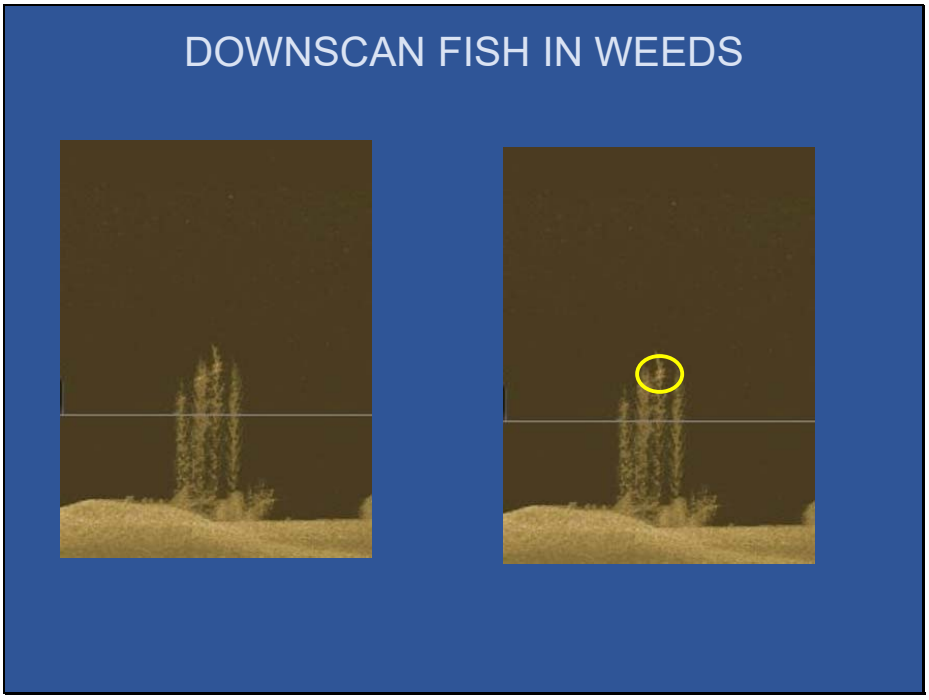
Slide 22



Slide 23

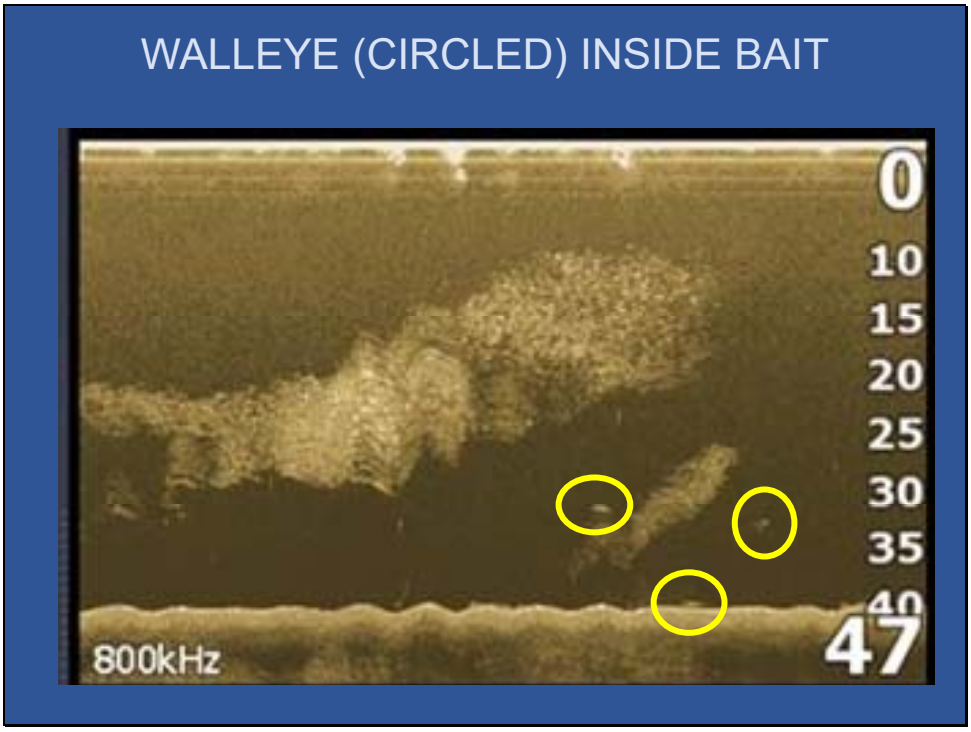

DOWNSCAN SEPARATION VS 2D
STRUC ft
15.5
WTRTMP °F
67.3
0
2
4
6
8
10
12
14
16
18
20
800kHz
DEPTH ft
15.4
0
4
6
8
10
12
14
16
20
200kHz

Slide 24

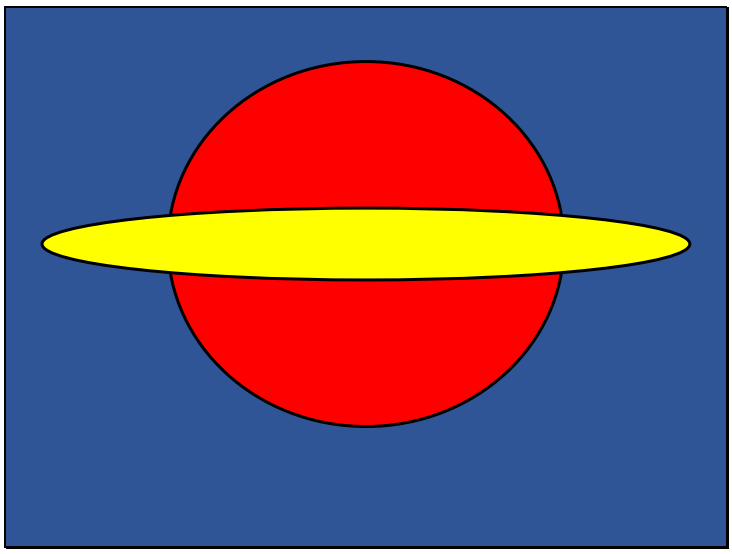


Slide 25

Slide 26

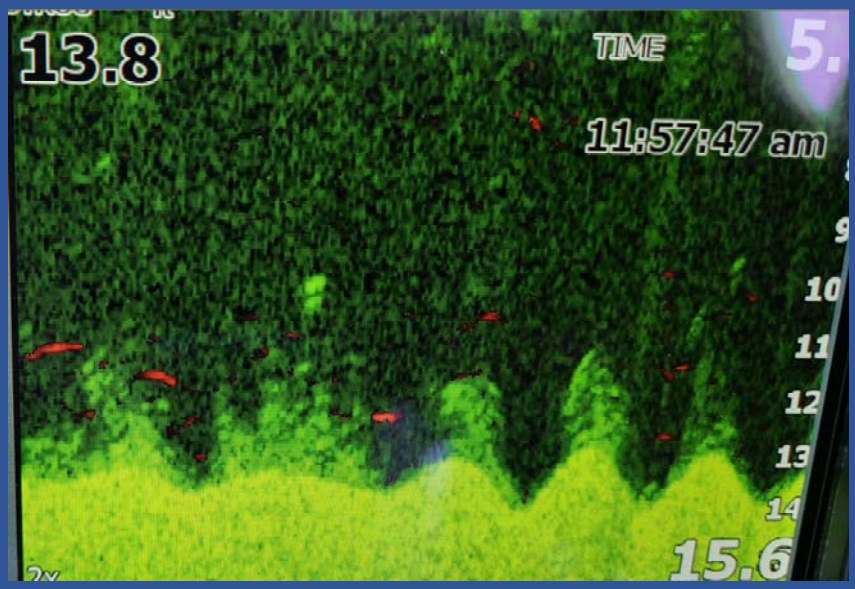


Slide 27

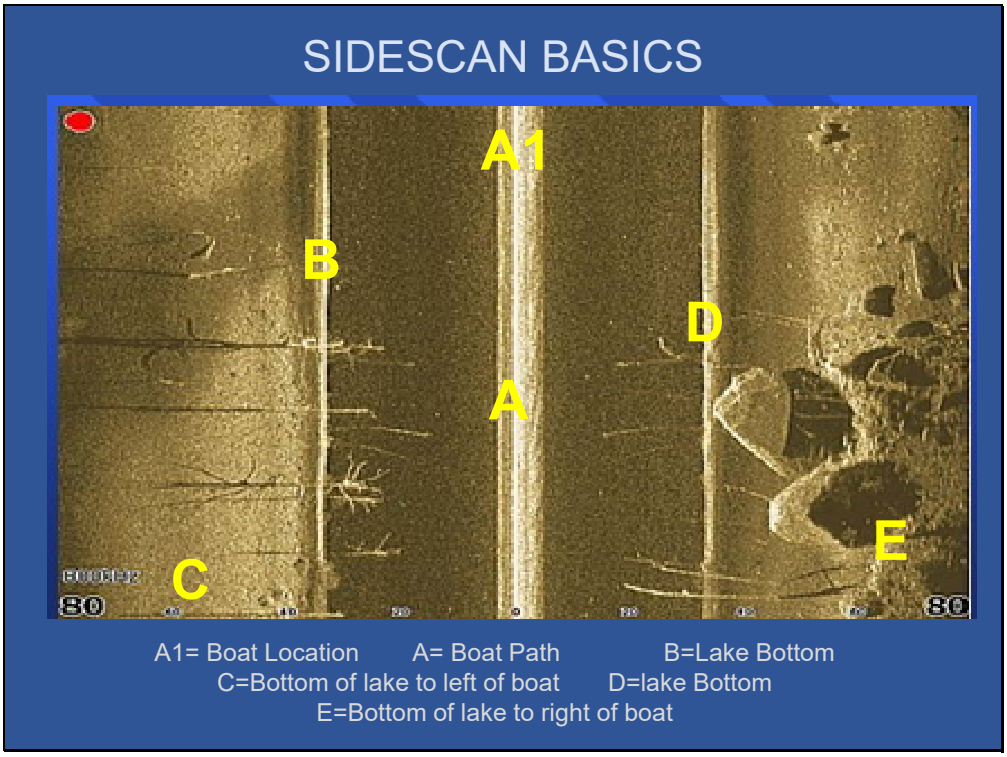


Slide 28

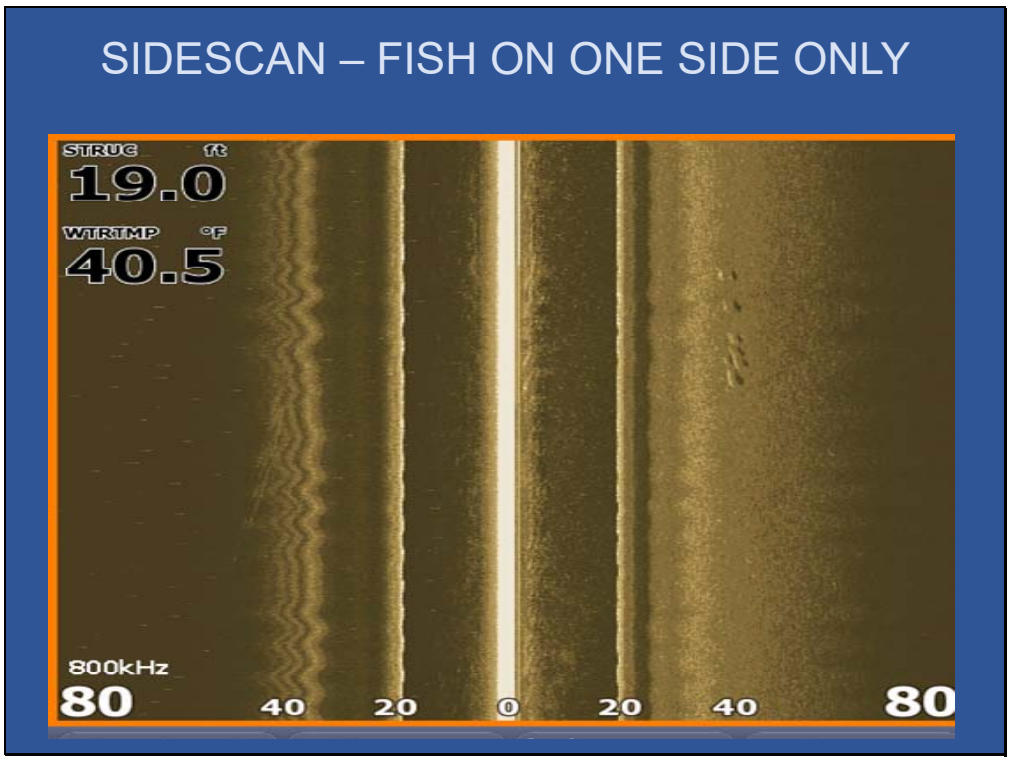
DOWNSCAN WITH FISH REVEAL



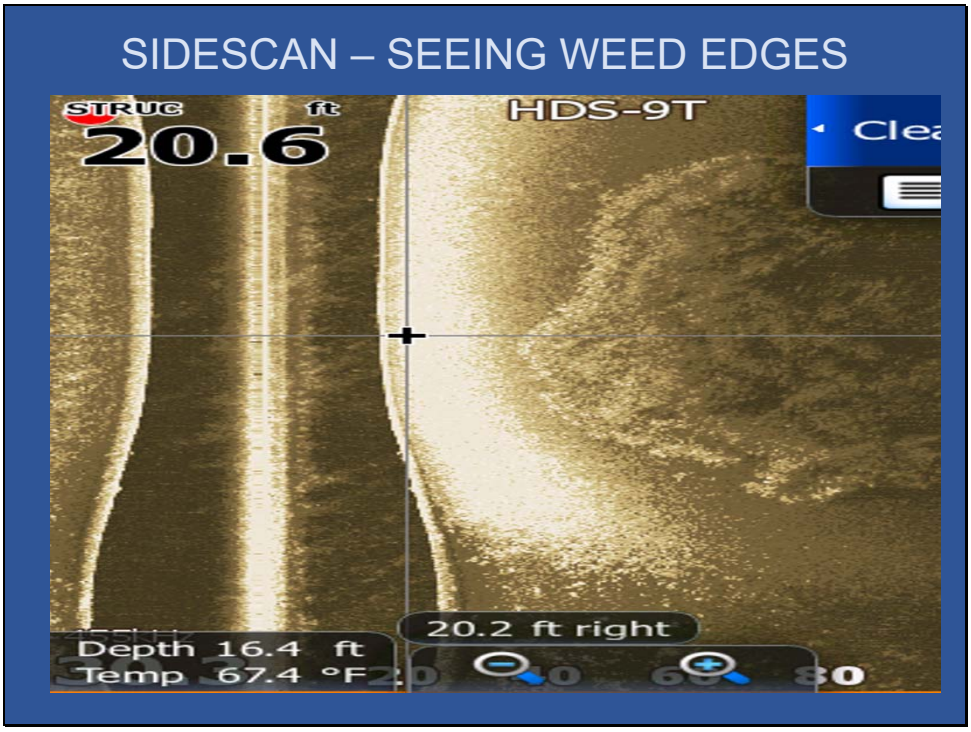
Slide 29


SIDESCAN BASICS
A1
B
D
A
E
C
80
80
A1= Boat Location
A= Boat Path
B=Lake Bottom
C=Bottom of lake to left of boat
D=lake Bottom
E=Bottom of lake to right of boat

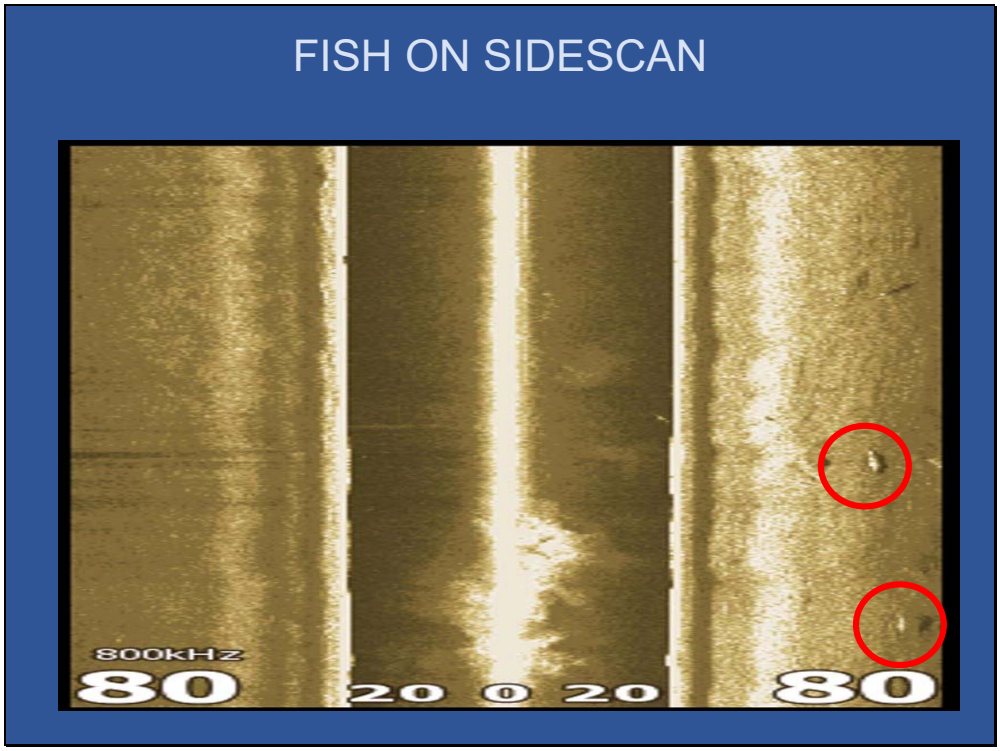
Slide 30


SIDESCAN – FISH ON ONE SIDE ONLY
STRUC ft
19.0
WTRTMP °F
40.5
800kHz
80
40
20
0
20
40
80

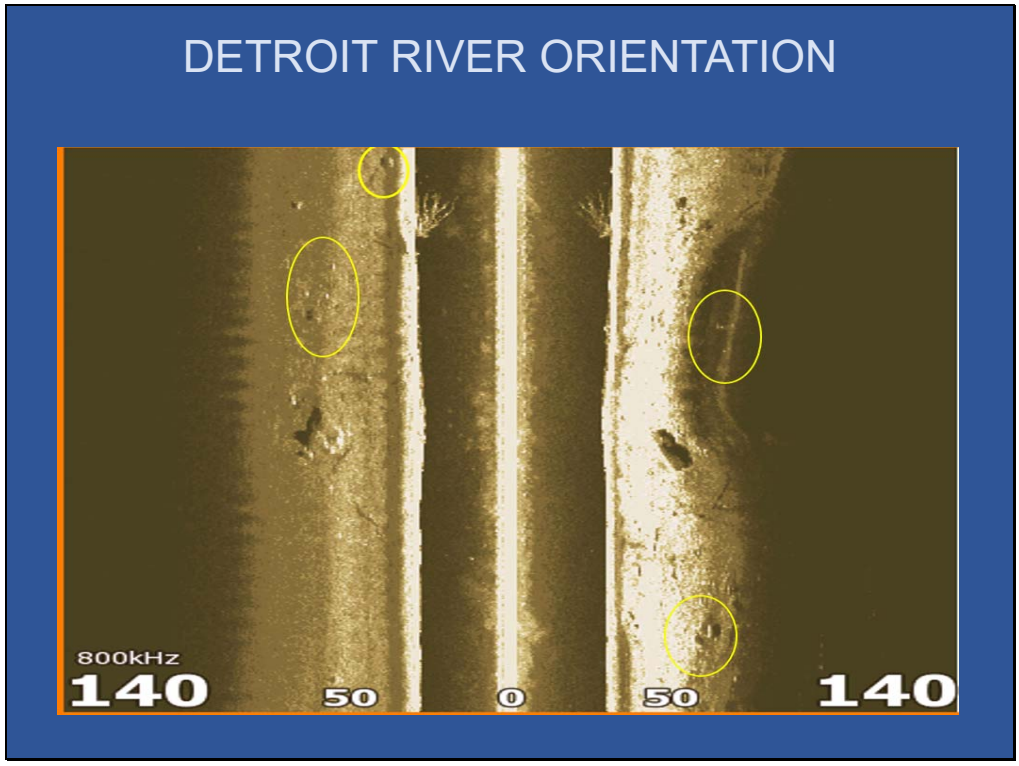
Slide 31


SIDESCAN – SEEING WEED EDGES
STRUC
ft
20.6
HDS-9T
20.2 ft right
Depth 16.4 ft
Temp 67.4 °F

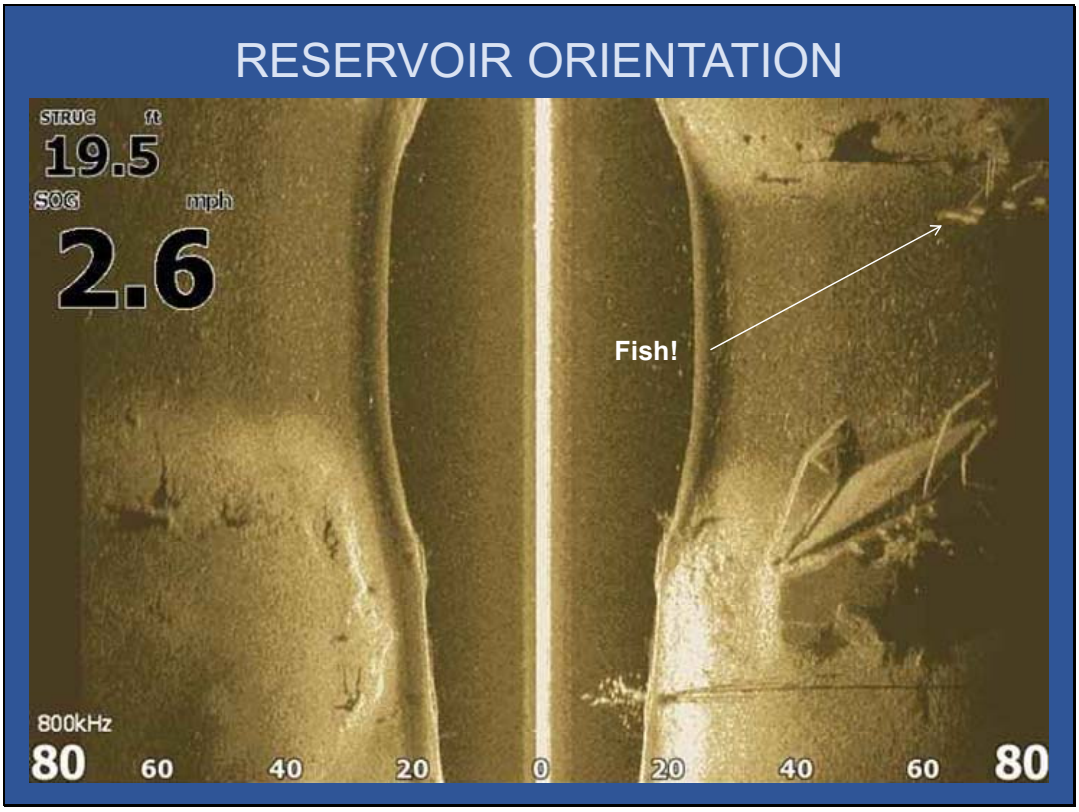
Slide 32



Slide 33

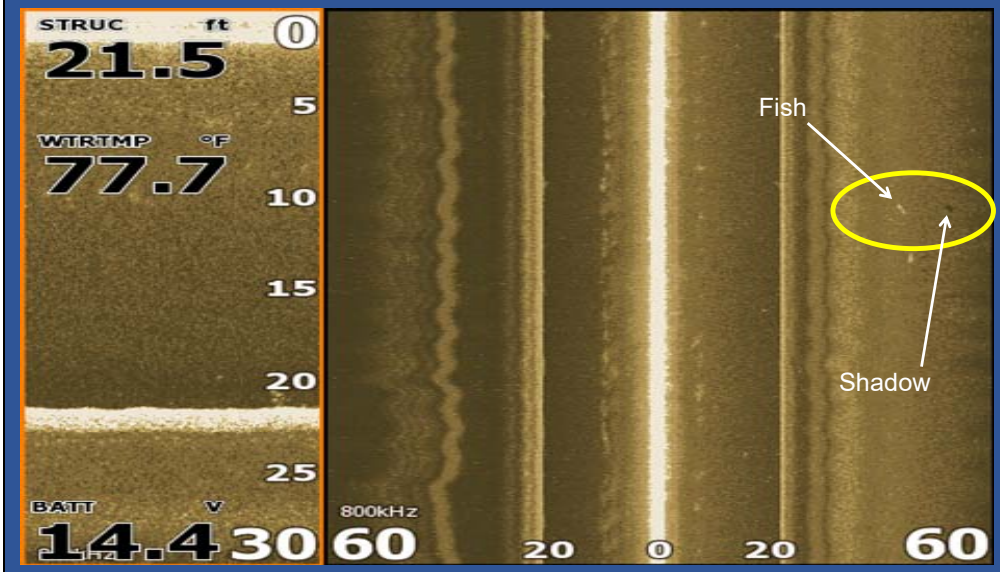


Slide 34

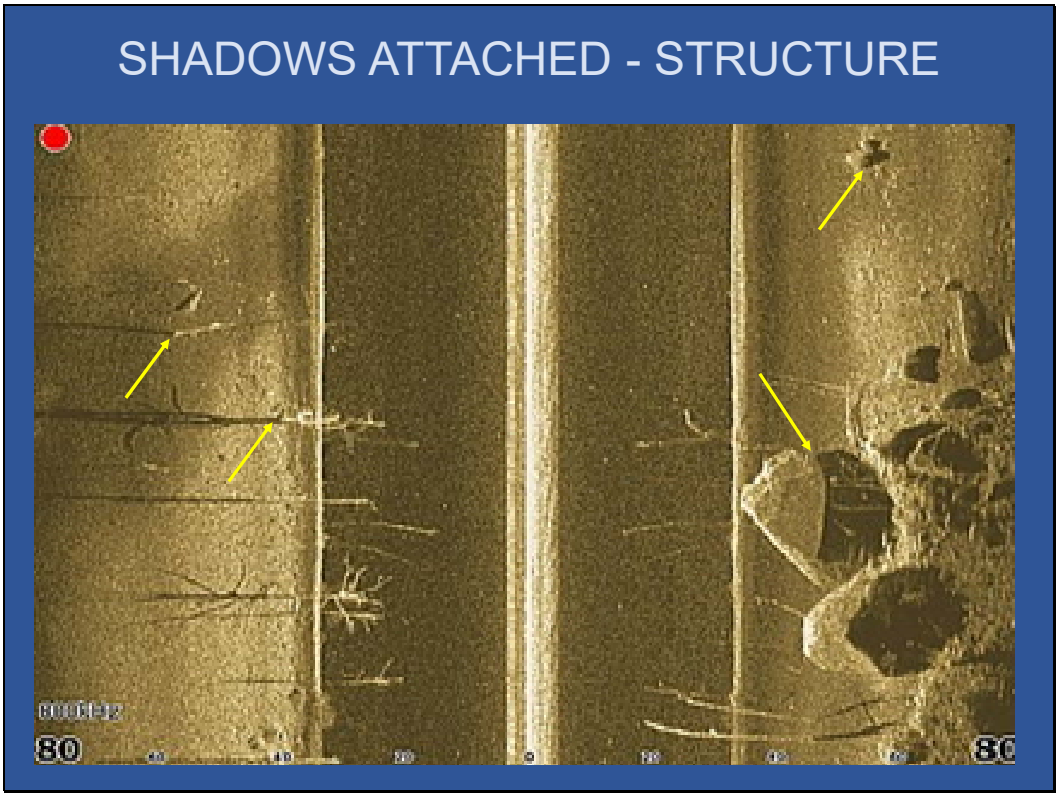

RESERVOIR ORIENTATION
STRUC ft
19.5
SOG mph
2.6
Fish!
800kHz
80 60 40 20 0 20 40 60 80

Slide 35

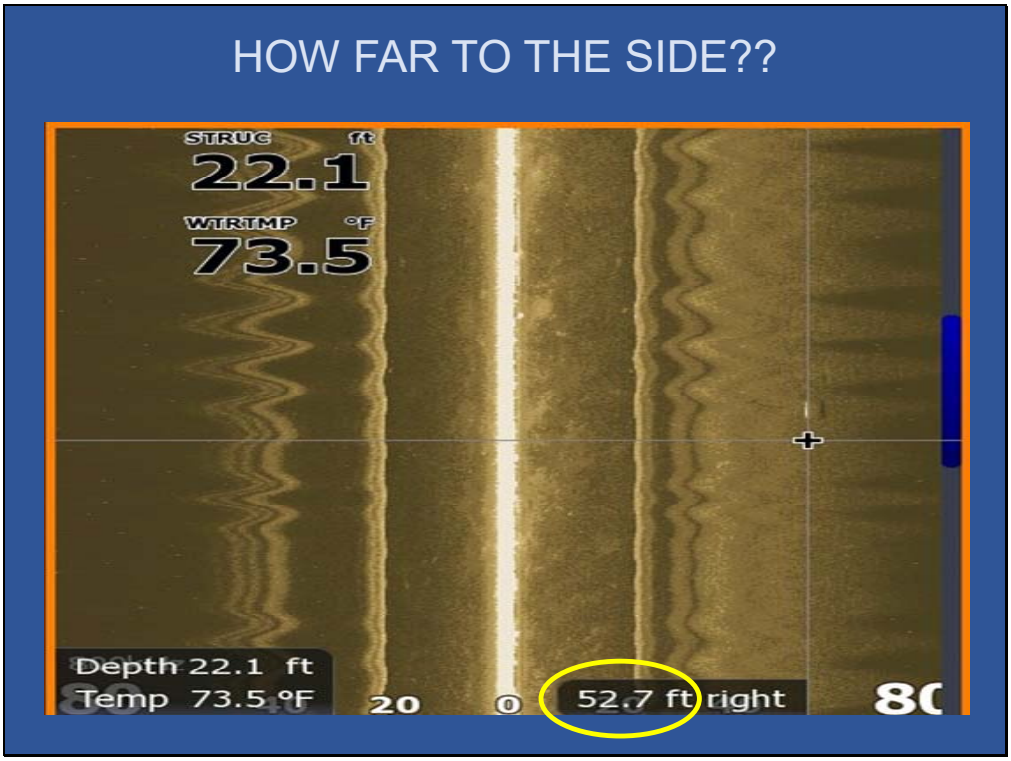
The further the distance between fish and shadow, the HIGHER the fish is off the bottom!



Slide 36



Slide 37

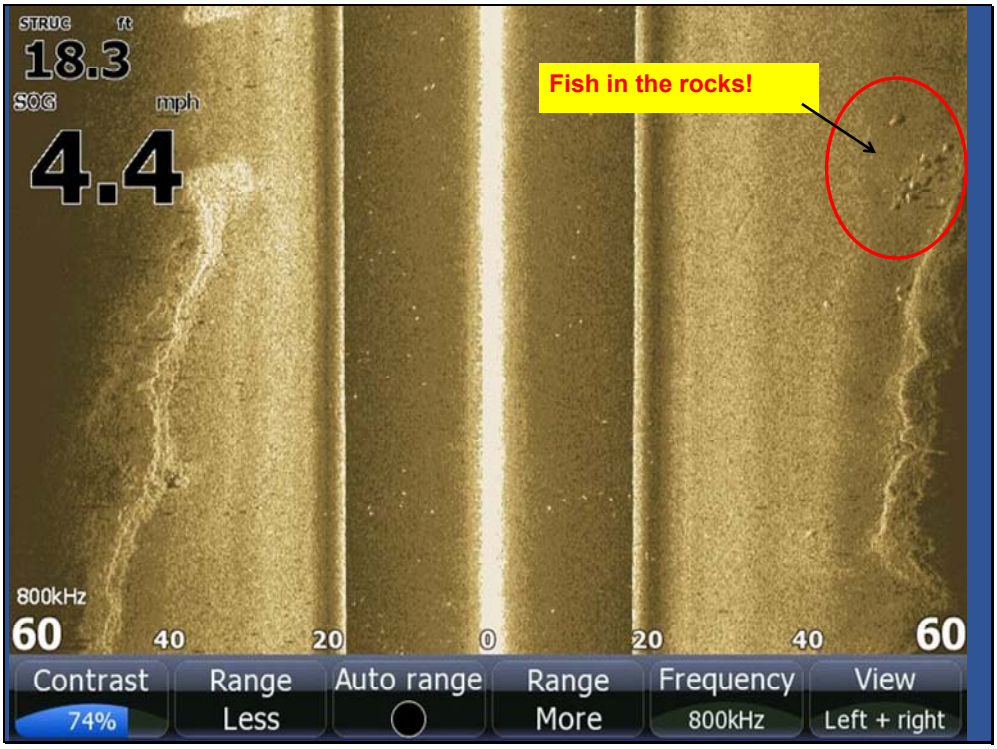

HOW FAR TO THE SIDE??
STRUC ft
22.1
WTRTMP °F
73.5
Depth 22.1 ft
Temp 73.5 °F
20
0
52.7 ft right

Slide 38

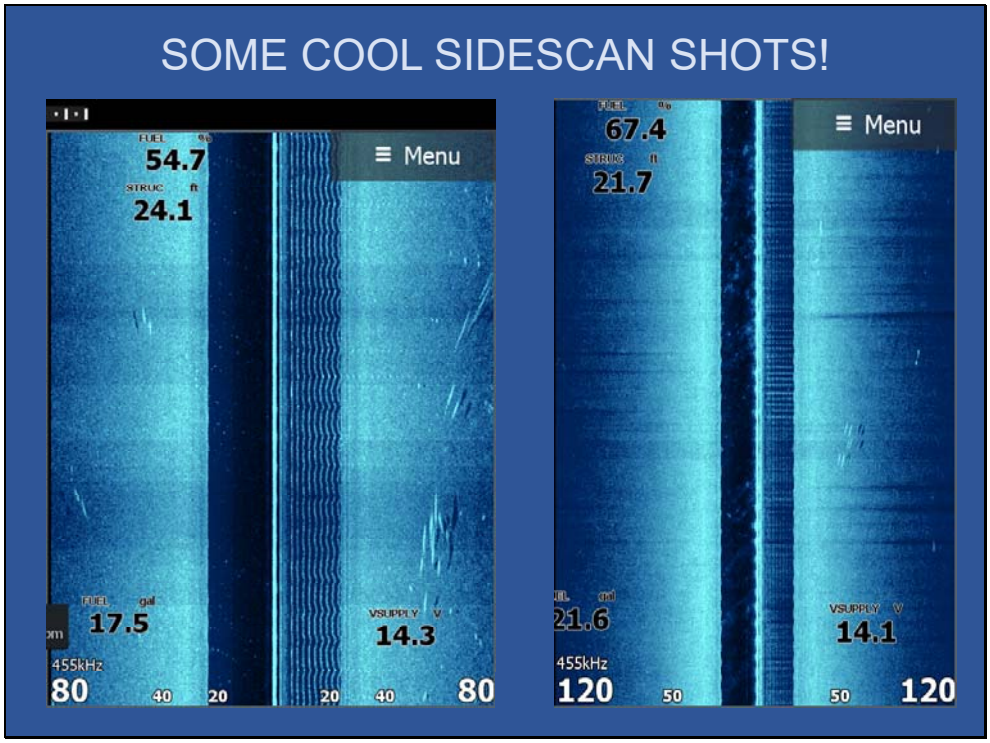
Sonar Settings

1. Select proper transducer
2. Set fishing mode (Shallow Water)
3. Set Screen palette (preferred #1)
4. Set Sensitivity (Auto PLUS 2-3%)
5. Set Colorline (68-72%)
6. Set Ping Speed (17-18)
7. Set Screen Scroll speed (X2 or X3)
8. Set proper depth range

Slide 39


STRUC ft
18.3
SOG mph
4.4
Fish in the rocks!
800kHz
60 40 20 0 20 40 60
Contrast
74%
Range
Less
Auto range
Range
More
Frequency
800kHz
View
Left + right

Slide 40


SOME COOL SIDESCAN SHOTS!
54.7
24.1
Menu
17.5
14.3
455kHz
80
40
20
20
40
80
67.4
21.7
Menu
21.6
14.1
455kHz
120
50
50
120

Slide 41

Rigging Tips for maximum sonar performance

- Use a transducer extension cables with original install.
- Clean power. Preferably dedicated battery to a dedicated fuse panel.
- Transducer mounting plates.
- Spend the time to get your transducer right