MBARA Diver's Reef Survey Form Rev 20 Jun 2016

Reef Number and Name 117 Vamar
Latitude 29 53.957 Longitude 85 27.803 Was published 1 Sonar Depth (ft) 24
GPS Manufacturer & Model: Garmin 188C
Survey Date Jul 9, 2016 Dive # 1 Time 1300
Cloud Cover % 0 Wind Spd & Dir Wave Height (ft) 1
Boat Name Bobcat Boat Captain Bob Cox Crew Carol Cox
Divers Bob and Carol Cox, Clasina Cox and Michael Nesius
Survey Type Roving Diver Depth Gauge Depth (ft) 25 Diver Bottom Time (minutes) 40
Water Temp Surface (Fahrenheit) 86 Water Temp Bottom (Fahrenheit) 84
Water Visibility Surface (feet)40Water Visibility Bottom (feet)40
Thermocline Depth (feet) Current Direction Current Speed (knots)
Other Water Column Characteristics (check all that apply)
\Box Plankton \Box Algae \Box Jellyfish \Box Turbid \Box Other
Bottom Composition (check all that apply)
\boxtimes Sand \square Silt \square Mud \square Gravel \boxtimes Shell \square Other
Reef Materials & Quantity Wrecked Vessel
Reef Height at Highest Point (measured from base to top of the reef)(feet) 15
Physical Condition (Durability, stability, storm damage, other damage or movement):
 No damage Damage No movement Movement
Explain damage/movement and suspected cause

Fish Counts (Click on the hyper-links below for identification)

✓ Angelfish-Blue	01	● 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Angelfish-Queen	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Barracuda-Great	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Batfish-Polka-Dot	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Blenny-Seaweed	O 1	○ 2-10 ④ 11-100 ○ 101+	Length (inches)	Comments
Blenny-?	• 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments Zebratail
Blenny-?	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Butterflyfish-Spotfin	01	● 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Butterflyfish?	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Cardinalfish-Two-Spot	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Chromis-Purple-Reeffish	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
✓ Chromis-Yellowtail- <u>Reeffish</u>	01	● 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Damselfish-Cocoa	01	○ 2-10 ④ 11-100 ○ 101+	Length (inches)	Comments
Damselfish?	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Drum-Cubbyu	01	● 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Drum-Jackknifefish	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
<u>Eel?</u>	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Flounder-Gulf	• 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Eilefish?	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Frogfish-Ocellated	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Goby-Spotted	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments
Goby?	01	○ 2-10 ○ 11-100 ○ 101+	Length (inches)	Comments

Grouper-Gag	○ 1	● 2-10 ○ 11-100 ○ 101+	Length (inches) Co	mments
Grouper-Goliath	• 1	Length: <3ft () 3-5ft () >5ft	Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Goliath	O 1	Length: <3ft () 3-5ft () >5ft	C Comments	
Grouper-Graysby	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches) Co	mments
Grouper-Red	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches) Co	mments
Grouper-Rock-Hind	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches) Co	mments
Grouper-Scamp	○ 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches) Co	mments
Grunt-Juvenile	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches) Co	mments
Grunt-Tomtate	O 1	○ 2-10 ○ 11-100 ④ 101+	Length (inches) Co	mments
Grunt-White	• 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches) Co	mments
Grunt?	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches) Co	mments
<u>Hogfish</u>	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches) Co	mments
Hogfish-Spanish	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches) Co	mments
Jack-Almaco	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches) Co	mments
✓ Jack-Blue-Runner	O 1	○ 2-10 ④ 11-100 ○ 101+	Length (inches) Co	mments
Jack-Greater-Amberjack	O 1	● 2-10 ○ 11-100 ○ 101+	Length (inches) Co	mments
Jack-Rainbow-Runner	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches) Co	mments
✓ Jack-Round-Scad-Cigar- Minnow	O 1	○ 2-10 ○ 11-100 ④ 101+	Length (inches) Co	mments
Jack?	• 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches) Co	mments Bar Jack
Jack?	O 1	○ 2-10 ○ 11-100 ○ 101+	Length (inches) Co	mments

Lionfish	○ 1	0 2-10	0 () 11-100 () 101+	Length (inches)	Comments
✓ <u>Mackeral-King</u>	○ 1	2-10	0 () 11-100 () 101+	Length (inches)	Comments
✓ Mackeral-Spanish	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Minnows-Glass-Small-Fry	y 🔿 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Pinfish?	○ 1	2-10	0 () 11-100 () 101+	Length (inches)	Comments
Porgy-Sheepshead- Porgy	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Porgy-Sheepshead	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Porgy?	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Puffer-Bandtail	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Puffer-Sharpnose	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Duffer?	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Ray?	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Shark-Bull	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Shark-Sandbar	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Shark?	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Sharksucker-Sharksucker	<u>r</u> () 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Sand-Perch	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Seabass-Bank	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Seabass-Belted-Sandfish	<u> </u>	○ 2-10	0 💿 11-100 🔿 101+	Length (inches)	Comments
Seabass-Black	<u> </u>	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Seabass-Pygmy	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Seabass?	○ 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
✓ <u>Snapper-Gray</u>	O 1	○ 2-10	0 💿 11-100 🔿 101+	Length (inches)	Comments
Snapper-Lane	O 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Snapper-Red	O 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Snapper-Vermillion	O 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Snapper?	O 1	○ 2-10	0 () 11-100 () 101+	Length (inches)	Comments
Soapfish-Whitespotted	O 1	0 2-10	0 () 11-100 () 101+	Length (inches)	Comments

\checkmark	Spadefish-Atlantic	0	1	0	2-10	۲	11-1(00 () 1	01+ Ler	ngth (inches)		Comments	
\checkmark	Toadfish-Leopard	۲	1	0	2-10	0	11-1(00 () 1	01+ Ler	ngth (inches)		Comments	
\checkmark	Triggerfish-Gray	0	1	0	2-10	۲	11-1(00 () 1	01+ Ler	ngth (inches)		Comments	
\checkmark	Wrasse-Painted-Wrasse	0	1	0	2-10	۲	11-10	00 () 1	01+ Ler	ngth (inches)		Comments	
\checkmark	Wrasse-Slippery-Dick	0	1	0	2-10	۲	11-10	00 () 1	01+ Ler	ngth (inches)		Comments	
\checkmark	Unlisted-See-Comments	۲	1	0	2-10	0	11-10	00 () 1	01+ Ler	ngth (inches)		Comments	Scrawled Cowfish
\checkmark	Unlisted-See-Comments	۲	1	0	2-10	0	11-1(00 () 1	01+ Ler	ngth (inches)		Comments	Sgt Major
\checkmark	Unlisted-See-Comments	0	1	0	2-10	۲	11-1(00 () 1	01+ Ler	ngth (inches)		Comments	Emerald Parrot
\checkmark	Unlisted-See-Comments	0	1	0	2-10	0	11-1(00 () 1	01+ Ler	ngth (inches)		Comments	Doctorfish
	Unlisted-See-Comments	0	1	0	2-10	0	11-1(00 () 1	01+ Ler	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-1(00 () 1	01+ Ler	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-1(00 () 1	01+ Ler	ngth (inches)		Comments	
	Unlisted-See-Comments	0	1	0	2-10	0	11-10	00 () 1	01+ Ler	ngth (inches)		Comments	
	Unlisted Con Commonte	\bigcirc	1	\bigcirc	2-10	\bigcirc	11-10	00 (1	01+ Ler	ngth (inches)		Comments	
	Unlisted-See-Comments	\cup		\bigcirc		\bigcirc				Lei			connents	
	Unlisted-See-Comments	_		0	2-10						ngth (inches)		Comments	
□ Gr		0	1	0 the	2-10	0	11-1(00 () 1	01+ Ler	ngth (inches)	ation)		
	Unlisted-See-Comments	0 icł	1 K ON 1		²⁻¹⁰ e hyp	0 Der	11-10 -lin	oo (ks k) 1 pel	^{01+ Ler} ow for	ngth (inches)			
	Unlisted-See-Comments	○ icł ⊙	1 X ON 1 1-25%	0	2-10 e hyp 26-509	o Der % (11-1(·-lin) 51-	00 (ks k	o 10 Del	01+ Ler ow for 76-100%	ngth (inches)		Comments	
	Unlisted-See-Comments T owth on Reef (Cl Algae	○ icŀ ⊙	1 (ON 1 1-25% 1-25%	0	2-10 e hyp 26-509 26-509	0 0er % (11-1(-lin) 51-) 51-	00 (ks k -75%) 1 Del	01+ Ler OW fOr 76-100% 76-100%	ngth (inches) identifica Size (inches)		Comments Describe	
	Unlisted-See-Comments Owth on Reef (Cl Algae Anemone	○ icł ⊙ ⊙	1 (ON 1 1-25% 1-25% 1-25%	000000000000000000000000000000000000000	2-10 26-509 26-509 26-509	○ ⊃er % (% (11-1(- lin 51- 51- 51- 51-	00 (ks k 75% 75%) 1 Del	01+ Ler OW fO 76-100% 76-100% 76-100%	ngth (inches) identific Size (inches) Size (inches)		Comments Describe Describe	
	Unlisted-See-Comments Owth on Reef (Cl Algae Anemone Barnacles Bivalves	 ○ icł ○ ○ ○ ○ 	1 C ON 1 1-25% 1-25% 1-25%	00000	2-10 e hyp 26-509 26-509 26-509 26-509	© Der % (% (% (11-1(- lin 51- 51- 51- 51- 51- 51-	00 (C ks k -75% -75% -75%) 1 oel 0 0	01+ Ler ow for 76-100% 76-100% 76-100%	ngth (inches) identifica Size (inches) Size (inches) Size (inches)		Comments Describe Describe Describe	
	Unlisted-See-Comments Owth on Reef (Cl Algae Anemone Barnacles Bivalves	 icł • • • • • • 	1 C ON 1 1-25% 1-25% 1-25% 1-25% 1-25%		2-10 26-509 26-509 26-509 26-509 26-509	C Der % (% (% (% (11-10 -lin 51- 51- 51- 51- 51- 51- 51- 51-	00 (C ks k 75% 75% 75% 75%		01+ Ler OW fO 76-100% 76-100% 76-100% 76-100%	ngth (inches) identific Size (inches) Size (inches) Size (inches) Size (inches)		Comments Describe Describe Describe	
	Unlisted-See-Comments Cowth on Reef (Cl Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip	 icl • 	1 CON 1 1-25% 1-25% 1-25% 1-25% 1-25%		2-10 26-509 26-509 26-509 26-509 26-509 26-509 26-509	○ → (→ (→ (→ (→ (→ (→ ())))))))))))))))))))))))))))))))))))	11-1(- lin 51- 51- 51- 51- 51- 51- 51- 51-	00 (C ks k -75% -75% -75% -75% -75%		01+ Ler OW fO 76-100% 76-100% 76-100% 76-100% 76-100% 76-100%	ngth (inches) identific Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches)		Comments Describe Describe Describe Describe	
	Unlisted-See-Comments rowth on Reef (Cl Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip Coral-Hard-Unkown		1 CON 1 1-25% 1-25% 1-25% 1-25% 1-25% 1-25%		2-10 26-50 26-	Oer % (% (% (% (% (% (% (% (% (% (% (% (% (% (% (% (%	11-10 -lin 51- 51- 51- 51- 51- 51- 51- 51-	00 (ks k 75% 75% 75% 75% 75%		01+ Ler OW fO 76-100% 76-100% 76-100% 76-100% 76-100% 76-100%	ngth (inches) identifica Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches)		Comments Describe Describe Describe Describe Describe	
	Unlisted-See-Comments Owth on Reef (Cl Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip Coral-Hard-Unkown Coral-Gorgonian		1 CON 1 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25%		2-10 26-509 26-509 26-509 26-509 26-509 26-509 26-509 26-509 26-509	○ → (→ (→ (→ (→ (→ (→ (→ (11-10 - lin 51- 51- 51- 51- 51- 51- 51- 51-	00 (C ks k -75% -75% -75% -75% -75% -75%		01+ Ler OW fO 76-100% 76-100% 76-100% 76-100% 76-100% 76-100% 76-100%	ngth (inches) identifica Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches)		Comments Describe Describe Describe Describe Describe	
	Unlisted-See-Comments Cowth on Reef (Cl Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip Coral-Hard-Unkown Coral-Gorgonian Coral-Occulina		1 CON 1 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25%		2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-50		11-10 - lin 51- 51- 51- 51- 51- 51- 51- 51-	00 (ks k -75% -75% -75% -75% -75% -75% -75%		01+ Ler OW fO 76-100% 76-100% 76-100% 76-100% 76-100% 76-100% 76-100% 76-100%	ngth (inches) identifica Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches)		Comments Describe Describe Describe Describe Describe Describe	
	Unlisted-See-Comments OWTH ON Reef (Cl Algae Anemone Barnacles Bivalves Coral-Colorful-Sea-Whip Coral-Hard-Unkown Coral-Gorgonian Coral-Occulina Coral-Occulina		1 CON 1 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25% 1-25%		2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-50		11-10 -lin 51- 51- 51- 51- 51- 51- 51- 51-	00 (ks k -75% -75% -75% -75% -75% -75% -75%		01+ Ler OW fO 76-100% 76-100% 76-100% 76-100% 76-100% 76-100% 76-100% 76-100% 76-100%	ngth (inches) identific Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches) Size (inches)		Comments Describe Describe Describe Describe Describe Describe Describe	

Unlisted-See-Comments	O 1-25	5% 🔿 26-50% 🔿 51-75% 🔿 76-100% Size (inches)	Describe
Unlisted-See-Comments	○ 1-25	% 🔿 26-50% 🔿 51-75% 🔿 76-100% Size (inches)	Describe
Unlisted-See-Comments	○ 1-25	% 🔿 26-50% 🔿 51-75% 🔿 76-100% Size (inches)	Describe
Invertebrates at Re	eef (Cli	ick on the hyper-links below for identificat	ion)
Cowry-?	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
<u>Cowry-</u> ?	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Cowry-?	O 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Crab-Hermit	O 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Crab-Yellowline-Arrow	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Crab?	<u> </u>	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Crab?	<u> </u>	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
<u>Lobster-Shovelnose</u>	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Octopus	<u> </u>	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Sea-Cucumber	O 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Sea-Slug	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
✓ <u>Sea-Star</u>	1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Sea-Urchin	○ 1	○ 2-10 ○ 11-100 ● 101+ Size (inches)	Comments
Shrimp-?	<u> </u>	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Shrimp-?	<u> </u>	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Snail-Florida-Horse- <u>Conch</u>	<u> </u>	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Snail-?	O 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Snail-?	01	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Unlisted-See-Comments	<u> </u>	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Unlisted-See-Comments	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Unlisted-See-Comments	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Unlisted-See-Comments	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments
Unlisted-See-Comments	○ 1	○ 2-10 ○ 11-100 ○ 101+ Size (inches)	Comments

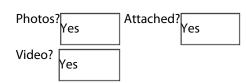
Turtles and Air Breathers/Mammals (Click on the hyper-links below for identification)

	Dolphin?	○ 1	○ 2-10	○ 11-100	○ 101+	Length (inches)	Comments	
✓	Turtle-Loggerhead	1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
	Turtle?	○ 1	○ 2-10	O 11-100	○ 101+	Size (inches)	Comments	
	Whale?	○ 1	○ 2-10	○ 11-100	○ 101+	Size (inches)	Comments	
	Unlisted-See-Comments	○ 1	○ 2-10	O 11-100	○ 101+	Size (inches)	Comments	

☑ Other Observations/Photos:

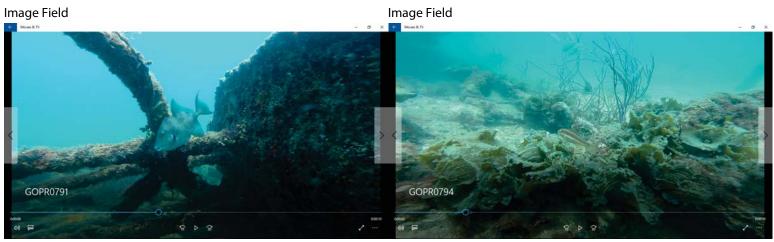
Observations

Go Pro screen shots used for photos.



Print Form





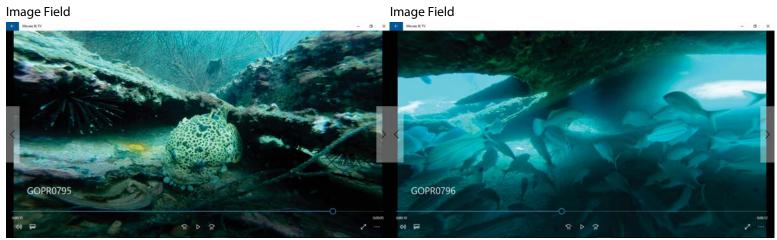




Image Field



Image Field

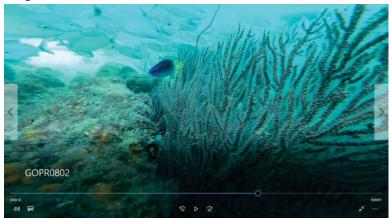


Image Field

Image Field

Image Field

Image Field