



HI MY
NAME IS **GASMO**,
THE SARGASSUM FISH,
AND I'M HERE TO SHARE
EVERYTHING I'VE
LEARNT FROM
FISHERFOLK.

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AMERICA

WHERE IS IT COMMING FRUITS

- There is a new source area right across the equator, and it looks like it's here to stay.
- Sargassum grows faster with more nutrients (pollution) and warmer water (climate change).
- Sargassum is carried to the Caribbean by ocean currents and wind.
- The influxes, like hurricanes, are hard to predict.











CHAULENGES AT LANDING SITES



CHAUTENEES AT SEA

GENERAL CHALLENGES:

- BLOCKED WATER INTAKES
- **2** FOULED PROPELLORS
- **3 BOATS STUCK IN FLOATING SARGASSUM MATS**
- **4** SKIN IRRITATION WHEN HAULING GEAR

POT FISHERS

- Hauling pots with sargassum on rope
- 2 Sargassum blocks entrance funnels

PELAGIC FISHERS

- Sargassum tangles in gillnets
- 2 Sargassum catches on lines, fish lures and hooks







SPEAR FISHERS

- Poor visibility
- 2 Sargassum berries getting into divers' ears
- 3 Skin irritation



SEINE FISHERS

1 Sargassum weighing down seine net



LONGLINE FISHERS

- Difficulty hauling longlines
- 2 Buoys weighed down by sargassum and disappear beneath sea surface
- 3 Breaking of lines







SMART PRACTICES AT L'ANDING SITES

- 1 Conduct community clean-ups (manual clean-up: using rakes and wheel barrows; fishing nets).
- Assist each other to launch boats or access moored boats.

3 Seek government assistance when sargassum influx is severe.



SMART FISHING WITH SARGASSUM PREVENTION IS BETTERTHANTHECURE!

WHEN SPEARFISHING

Wear diving gear with minimal skin exposure, to prevent skin irritation.



WEAR A DU-RAG, BUFF SCARF OR DIVING HOOD TO AVOID GETTING SARGASSUM BERRIES IN YOUR EARS.

If skin comes into contact with sargassum remember to apply vinegar to the affected area!







HAVE YOU ENCOUNTERED SARGASSUM AT SEA? HERE'S WHAT TO DO:

If sargassum is unavoidable, look for lighter patches to go through and AVOID motoring through large mats.







In cases where boats really get stuck in sargassum, call another fisher for help to get towed out of the sargassum.

When sargassum gets wrapped around the propeller, put the boat in reverse.

STUCK IN THE SWItch of vessel to describe what to do:

Switch off the engine and allow the vessel to drift out of the sargassum.



DON'T FORGET TO RADIO TO COLLEAGUES WHICH AREAS TO AVOID!

HAVE YOU ENCOUNTERED SARGASSUM AT SEA? HERE'S WHAT TO DO:

Sargassum often becomes tangled in lines and on hooks while trolling. You could avoid this by using:

• Wire lines/cable and lead sinkers to carry the line below the surface floating sargassum.

• Vertical lines / jigs to fish below the sargassum.





'Surface poppers' to mimic feeding frenzies.

'Bonito straps' with multiple hooks.



Surface poppers are best used for surface fishing. They imitate a fleeing baitfish by creating serious commotion action on the surface through splashing, popping, and jolting action with a swift rod pull. Blue colour works well for different species including amber fish and barracuda.



VERTICAL JIGS

Vertical Jigs work well for species below the surface. Thin or weighted jigs sink quickly, allowing the fisher to set and retrieve it quickly. Pink and blue colours attract a variety of species including tunas and dolphinfish.



BONITO STRAP

Bonito strap uses 5 to 6 artificial squid lures trolled in clear areas in between the sargassum lines or mats.



DON'T COME HOME EMPTY HANDED! YOU CAN MAKE THE MOST OF SARGASSUM:







Today's weather apps that monitor ocean temperature, wind speed and swell heights can give a better idea of fishing areas likely to yield greater catches.

How about using free weather forecasting apps such as Windguru for information on wind, waves and tides to fish smarter!

Light winds (9 to 11 knots) and small swells (0.9 –1.2 m) usually cause lines of sargassum to form larger mats.

Greater catches of dolphinfish and turpits around areas of sargassum occur with warmer summer water temperatures (e.g. 81-83°F / 27.2-28.3°C).



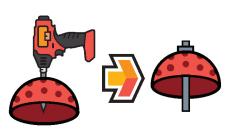


DLY STRAINER TUTORIAL

LOW COST, VERY EFFECTIVE, EASY TO MAKE, INTAKE STRAINER FOR INBOARD ENGINE









USE A MARKER PEN TO DRAW A HORIZONTAL LINE, AS STRAIGHT AS POSSIBLE ACROSS THE MIDDLE OF THE BUOY.



CUT THE BUOY IN HALF
USING A HACKSAW AND DRILL
NUMEROUS HOLES SMALLER
THAN THE SIZE OF THE
SARGASSUM BERRIES
TO CREATE A STRAINER



DRILL 1 LARGE HOLE
THROUGH THE STRAINER
FOR THE THREADED ROD
TO BE INSERTED. INSERT
THREADING ROD TO ENSURE
A SNUG FIT.

BOAT MODIFICATIONS CAN RANGE FROM SIMPLE "DO IT YOURSELF" SOLUTIONS TO MORE ADVANCED STORE BOUGHT TECHNOLOGICAL INNOVATIONS, TO BETTER COPE WITH SARGASSUM.









MATERIAL LIST



DRILL A HOLE BY THE
INTAKE, INSERT THREADED
ROD, USE SEALANT, SLIDE ON
STRAINER OVER THE INTAKE
AND FASTEN USING LOCK NUTS
AND WASHERS.

- BUOY
- 2 HACKSAW OR ANGLE GRINDER
- 3 1 FT OF ½" STAINLESS THREADED ROD
- 4 2 LOCK NUTS
- 5 2 WASHERS
- 6 MARKER PEN
- 7 DRILL
 - 8 SEALANT

EXTERNAL STRAINER

COMMERICALLY PRODUCED BRONZE HULL STRAINERS ARE VERY EFFECTIVE FOR PROTECTING INBOARD ENGINES.

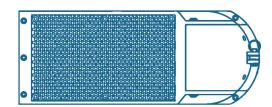
For installation over the vessel's intake to capture the berries, which may block the intake and cause overheating.

ADVANTAGES OF THE STRAINER:

- 1 THERE IS NO NEED TO REMOVE THE ENTIRE STRAINER TO CLEAN SINCE THE SCREEN IS REMOVABLE.
- 2 CAPTURES ALL SARGASSUM BERRIES.
- 3 STREAMLINED DESIGN AVOIDS POSSIBLE CAVITATION AT SPEED.

DISADVANTAGES OF THE STRAINER:

1 RELATIVELY EXPENSIVE.







- Could hulls be modified to deflect sargassum away from the propellers?
- Should propeller guards be considered?
- Should fishers maximize earnings by looking for additional revenue from harvesting and using sargassum?



