

WHAT IS IT?

Sargassum is a type of floating brown algae

THE GOOD

At sea, it is highly beneficial to a wide range of marine life & birds

- Shelter & protection
- Food source
- Listed as Essential Fish Habitat (NOAA) for several open sea fish species and Critical Habitat (ESA) for the loggerhead sea turtle
- Hatchling sea turtles swim offshore intercepting sargassumdominated communities where they will spend the first few years of their lives adrift

THE BAD

When sargassum washes ashore or stays submerged nearshore, it can

be hazardous to a wide range of life forms

- Harmful brown tides smother flora, fauna, and coral reefs
 - Decreases dissolved oxygen and changes pH
 - Has high levels of arsenic, other heavy metals and organic contaminants
- Breaks down into tiny particles, impeding light that seagrass and coral need to survive
- Absorbs light and increases water and beach temperatures
- Decomposition releases hydrogen sulfide, a respiratory irritant for humans
- Acts as a physical barrier to hatchling sea turtles crawling to the ocean, as well as mother turtles coming ashore to lay eggs
 - Impedes their ability to navigate to open ocean

THE UGLY

Global increase in water temperatures and human-linked pollution are the cause of the over-abundance

- Increased nutrient input from land-based sources fuel blooms (agricultural runoff, industrial and municipal wastewater, deforestation)
- Changes in ocean currents associated with climate change cause inundation events in areas not historically documented
- Sargassum is a free-floating algae that gathers at convergences of ocean currents where other floating debris accumulates
 - Ingestion of marine debris is extremely common in the plethora of animals using this habitat as a foraging area



