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WHY IS THE GULF OF MAINE WARMING FASTER THAN 99% OF THE OCEAN?

By Laura Poppick

Late last October, four endangered sea turtles washed ashore on northern Cape Cod, marking an early onset to what has now become a yearly event: the sea turtle stranding season.

These turtles—in this case, Kemp’s ridley sea turtles—venture into the Gulf of Maine during warm months, but they can become hypothermic and slow moving when colder winter waters abruptly arrive, making it hard for them to escape.

“They are enjoying the warm water, and then all of a sudden the cold comes, and they can’t get out fast enough,” said Andrew Pershing, an oceanographer at the Gulf of Maine Research Institute in Portland, Maine.

Thanks to record-breaking summer water temperatures that quickly transition to cooler conditions, an expanded sea turtle stranding season is just one facet of a new normal

Kemp’s ridley sea turtles inhabit warm waters—such as this one here, on the shore of the Gulf of Mexico in Texas—and were almost never seen farther north than the coast of New Jersey until the Gulf of Maine waters began rapidly warming. Credit: NPS Photo/Alamy Stock Photo

