



OCTOBER 4, 2025

**10,000 ISLANDS DOLPHIN STUDY PROJECT
MARCO ISLAND, FLORIDA
2025 THIRD QUARTER REPORT
JULY 1 THRU SEPTEMBER 30**

OBJECTIVE: The 10,000 Islands Dolphin Study Team monitors the travel range, social behavior, abundance, genealogy, feeding habits, survival rate, health and overall well-being of the bottlenose dolphin population in the waters of north Marco Island, Florida and surrounding vicinity. The study has a database of documented sightings dating back to February 8, 2006, and created a new, unique database in 2018 to detail more efficiently the above-mentioned criteria, and more. The enclosed information describes data compiled for the calendar period of July 1 thru September 30, 2025.

During this 3 month period the team experienced 56 excursions with a total of 888 individual sightings of more than 135 identified, local dolphins for an average of 15.8 dolphins per excursion. Total documented sightings for the first 9 months of 2025 are 4,987 during 306 excursions. The 2024 annual total documented sightings were 5,079 during 449 excursions, averaging 11.3 dolphins per trip. Our 2023

total for the entire year yielded 4,763 individual, identified dolphin sightings of more than 125 local bottlenose dolphins during 434 excursions, an average of 11 dolphin sightings per trip.

ECOSYSTEM: The 10,000 Islands and Rookery Bay are mainly a red mangrove forest with shallow water content. Before human development in this region, dolphins primarily fed around the base of the mangrove islands, on the sandbars and the mud flats. The introduction of civilization produced additional foraging opportunities with docks, seawalls and canals. With an abundance of food in this habitat the bottlenose dolphin population does not migrate any great distance from our survey area, but some do have an extensive travel range. These are a residential, coastal species. Ranging from Young of Year to the oldest adults, this local population will consume, collectively, about 1 ton of fish per day.

FEEDING: Many of our dolphins feed individually along the base of the mangrove islands and on the sandbars because of the shallow waters here. They don't require a pod structured society as witnessed in offshore feeding habits. They also trap fish along the seawalls. On occasion, small groups will work together herding fish to sandbars or shorelines for an easier, shallow water catch. Strand feeding has been observed locally along mud flats.

IDENTIFICATION: Our dolphins are identified by markings on their dorsal fins; nicks and notches caused by one dolphin raking its teeth across another's dorsal fin. The marks are unique to each dolphin and rarely are any 2 dolphins' markings identical. Photos of every dolphin dorsal fin on each excursion are documented and transferred to computer files of each individual dolphin which, in turn, are transferred to our database for historical purposes. Markings will change over time so dated photo identifications and constant updating of files and the database are required to maintain accuracy of the monitored local population.

NAMES: Names given to dolphins here primarily derive from guests, staff and area organizations. They are unique to the 10,000 Islands Dolphin Study Program and are the property of the Project. Each dolphin also has a catalog number.

COOPERATIVES: The team has worked with, and assisted, Florida Fish and Wildlife Conservation Commission (FWC) as well as NOAA to rescue and/or identify dolphins in need of assistance and to provide historical data of deceased or injured mammals.

ENCLOSED IS A SUMMARY OF ACTIVITY REGARDING OUR BOTTLENOSE DOLPHIN POPULATION OVER THE THIRD QUARTER OF 2025 WITH AN INCLUSION OF HISTORICAL DATA DATING BACK TO 2006.

2025 THIRD QUARTER REPORT

CALVES: The primary birthing season of calves in our habitat is September, October and November. From August 21st, 2025 thru October 3rd, 2025 our team has documented 5 new births. 4 of them were to experienced moms with 1 born to a first time mother. The team has an additional 8-10 females that fit the profile to give birth this Fall. With our birthing season not even ½ way complete, we anticipate documenting 5-7 more births in 2025. Female Sintas gave birth to her 6th documented offspring, as did female Chip. Chip is also a grandmother of 2. Of the 10 calves born in the Fall of 2024, all are still alive and will reach their first birthdays this Fall. Our dolphins have a gestation period of about 12 months and calves typically stay by a mother's side for 3-4 years.

Repeating that calves stay with a mom for 3-4 years, 2 calves that are 33 months old have left their moms and now classified as “sub-adults”. This is a strong indication that these 2 adult females are preparing to birth a calf soon.

From 2018 through 2025 the team has documented 68 new calves born, with 59 surviving, a success rate 86+%.

SUB ADULTS: Young dolphins that leave the care of an adult female are no longer calves, but now known as “Sub Adults” since they will not become adults until they mature at 7 to 14 years of age. Females in our area tend to mature at 7 years old while males mature about 5-7 years older. Some

sub adult dolphins will form small groups of 3 to 6 individuals that socialize and feed together on a regular basis. Several more calves joined this category in 2025 as adult females gave birth to new calves. Some of the male sub adults tend to leave the area. Outside studies suggest that the older, mature males will drive the young males from the region, recognizing that they may be competition for mating rights as they mature. Female sub adults tend to be free to roam within the existing society.

The health and well being of the sub adult population in general is excellent. Foraging does not appear to be an issue, since these young were taught to feed by their mothers in a certain area, described as a “natal range” and our team finds these sub adults feeding in these areas frequently, exactly where they were taught to feed by the mothers. In particular, 2 male sub-adults Parton and Ariel are growing rapidly and both are under 10 years old.

ADULT FEMALES: Adult females in our study area total 40, outnumbering males almost 3 to 1 (15 males). Once they begin producing calves, the tendency is to birth a newborn about every 3 to 5 years. Since 2006 we have documented females that have given birth, and those young females have now given birth, producing 12 known grandmothers in our society.

We have a young female that, if she gives birth this Fall, we will know our first documented great grandmother, a 4th generation of dolphins in our study group.

The team has listed nearly 20 females that have potential to give birth this Fall. Likely, not all of these will produce a calf, but the birthing season should be healthy in 2025, with 5 new calves sighted at the time of this writing.

Even though our births take place primarily in September, October and November, there are noted exceptions, with our team documenting births in July or as late as January.

Female Sparky gave birth in the Fall of 2022 and that calf only survived about 8 months, until May 2023. It is typical for an experienced female mother to get pregnant within 60-90 days of losing a calf. With a gestation period of 12 months we have witnessed several moms producing a new calf 14 months after the loss of a calf. This has taken place more than 4 times within our documented society. It seems that our females will locate the dominant males when ready to become pregnant but will mate with other males as well.

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ADULT MALES: Of the 15 adult males in our society, 6 dominate the mating in our area. 3 pairs of males, know as “Male Pair Bonds” are the most dominant and will often deter other males from approaching females by use of physical interaction, sometimes extremely rough.

Some of these dominant males are aging and the average age of these top 6 is estimated to be about 40 years old each, possibly more. Younger males about 16 to 20 years of age are becoming more aggressive and may earn a top spot in the male society. There are 3 younger adult male bondings that appear to be forming. Youth will eventually prevail.

Adult male Hatchet, a pair bond with Capri and a dominant figure for 2 decades has not been seen since December, 2024. Capri, believed to be older than Hatchet is now keeping company with several different adult males.

Male Pair Bond Trixie and Captain Jack are travelling separate paths after 20 years together. Jack seems to be slowing down and his bonded male mate Trixie is socializing more in smaller groups of dolphins.

Other adult males tend to stay to themselves, occasionally socializing, feeding or traveling with in small groups, both male and female, but very singular in their general behavior.

Overall, the male population appears strong and healthy.

ENVIRONMENTAL ISSUES: There have been no significant weather events in third quarter of 2025 and no known algal blooms or other bacteria related outbreaks in the Marco Island area that our team has noticed. Hurricane season has been very mild as of this writing. An indication of this is our

sea turtle population. With no storms or beach erosion there have been 1,000 plus nests hatching this year compared to 2024 along Collier County Gulf beaches.

2025 EVENTS: Societal behavior has been consistent over the past 3 months with no significant changes to report. All 10 of our newborn from last Fall are still alive, and any injuries to our population have been minor. We have had no need to call on FWC or NOAA for rescue assistance.

The team has listed a nearly 15 adult females that may give birth this Fall, plus a few sub adults that may have matured and produce a first calf as well. Again, 5 new calves are already documented this Fall.

With a total identified population of 135+ dolphins the team could potentially document an 8% increase in our identified population this Fall.

The average number of identified dolphins per excursion this quarter is 16.8. Over the past 4 years each quarter has produced an average of 1-13 identified dolphins per trip. This is a gradual increase from one quarter to another, but the number of births indicate that more sightings will occur.

The number of identified dolphins for all of 2023 was 4,763. In the 2024 our number was 5,079. This is an increase in a short period of time, but all of the sightings are local, identified dolphins familiar to our team. 2025 sightings of

our residential population after 3 quarters is 4,987 and we anticipate to eclipse the 2024 annual sighting totals by the end of October

In addition, there have been many transient and unidentified dolphins in our survey area as well.

Changes in dorsal fin markings will continue and will be noted daily so as not to lose track or mistake the identity of any bottlenose dolphin in our local society.

REPORT: This report was compiled by the 10,000 Islands Dolphin Study Project's team members which include an Environmental Scientist, a Marine Biologist and 3 Florida Master Naturalists (Certified by the University of Florida). This report is presented to you by Lead Naturalist / Florida Master Naturalist Bob McConville.

You may contact Bob at 239-642-6899 or by email at dolphinsofmarco@gmail.com. Bob and the team welcome all inquiries regarding our program and look forward to other institutions sharing their data and thoughts with our team.

Thank you for your time to read our report. We hope it generates some thoughts about the importance of sharing data worldwide.

Our motto: PASSION, INTEGRITY, EDUCATION!

Bob McConville, Lead Naturalist
Florida Master Naturalist
10,000 Islands Dolphin Study Project
Marco Island, Florida

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