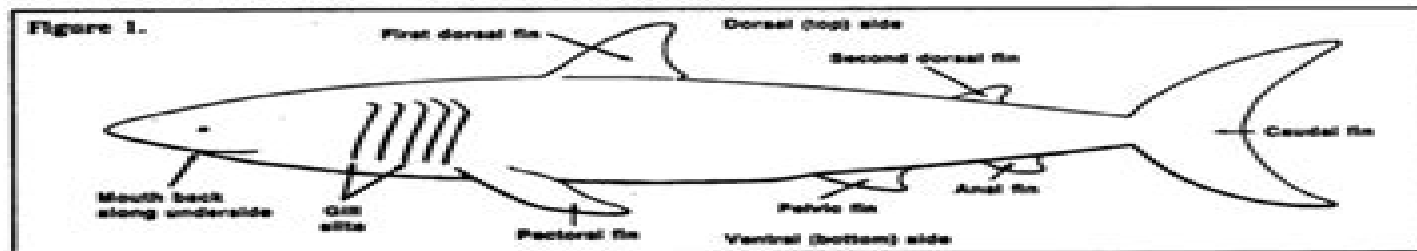


SHARK DICHOTOMOUS KEY WORKSHEET

Use the picture of the shark below and the dichotomous key posted in Google Classroom to help you identify the name of the Family each shark belongs to.



The Dichotomous Key

- 1A. The body is the shape of a kite..... Go to 12
- B. The body is not the shape of a kite..... Go to 2
- 2A. There is no pelvic fin and the nose looks like a saw..... Family Pristiophoridae
- B. There is a pelvic fin..... Go to 3
- 3A. There are six gills..... Family Hexanchidae
- B. There are five gills..... Go to 4
- 4A. There is only one dorsal fin..... Family Scyllorhinidae
- B. There are two dorsal fins..... Go to 5
- 5A. Mouth is at the front of face like a human giving it a small nose..... Family Rhinocodontidae
- B. The mouth is on the underside of the head..... Go to 6
- 6A. The head goes out on the sides and the eyes are on the extensions..... Family Sphyrnidae
- B. The head does not go out on the sides..... Go to 7
- 7A. The top half of the caudal fin is the same size/shape as the bottom half..... Family Isuridae
- B. The top half of the caudal is different in shape and size from the bottom half..... Go to 8
- 8A. The first dorsal fin is very long, almost half as long as the body..... Family Psuedotriakidae
- B. The first dorsal fin is regular length..... Go to 9
- 9A. The caudal fin is very long, almost as long as the body..... Family Alopiidae
- B. The caudal fin is regular length..... Go to 10
- 10A. There is a long point (like a needle) on the end of the nose..... Family Scapanorhynchidae
- B. The nose does not have a point..... Go to 11
- 11A. There is no anal fin..... Family Squalidae
- B. There is an anal fin..... Family Carcharhinidae
- 12A. There is a small dorsal fin near the end of the tail..... Family Rajidae
- B. There is not a small dorsal fin near the end of the tail..... Go to 13
- 13A. The front of the animal has two points that look like horns..... Family Mobulidae
- B. There are no points that look like horns..... Family Dasyatidae

Shark Dichotomous Key Of Florida

SJ Ball



Shark Dichotomous Key Of Florida:

Shark Quest Karen Romano Young, 2018-08-01 Sharks are in trouble Fifty shark species are at high risk of extinction and another sixty three are threatened These intelligent mysterious and sometimes scary fish evolved about 420 million years ago They have adapted to survive deep in the ocean and in shallow water habitats Commercial fishing and finning are threatening shark populations So is water pollution Marine biologists and others including young people are working together to save these fascinating predators Discover the work of scientists and conservationists as they study shark biology and morphology research migration feeding and mating patterns delve into human climate and other threats to shark habitat and develop sophisticated technologies to aid sharks and shark research See how scientists also educate the public about real and imagined fear of sharks and encourage citizen participation in shark conservation efforts Learn about high tech tagging for tracking shark migration paths Discover the autonomous underwater vehicles and drones that divers use to observe and photograph sharks up close Visit shark sanctuaries in the South Pacific Ocean You ll even meet the Shark Lady a k a Eugenie Clark a pioneer ichthyologist shark scientist Through research and advocacy people around the world are working to protect and admire sharks A n engaging well researched book about a much maligned species of fish that deserves our protection Booklist A remarkably thorough tour of the world of sharks and marine scientists efforts to educate the public about our ocean s apex predators Kirkus Reviews

Field Guide to Requiem Sharks (Elasmobranchiomorphi: Carcharhinidae) of the Western North Atlantic Mark Grace, 2001 **Sharks, Skates, and Rays of the Gulf of Mexico: A Field Guide**, 2006 **NOAA Technical Report NMFS**, 1984 *Shark!*, 1995 Integrates science mathematics geography art and language to teach students about sharks and the ecology of the ocean Includes reproducible worksheets **American Book Publishing Record**, 1984 *Copeia*, 1987 **Government Reports Annual Index**, 1983 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z *Government Reports Annual Index: Keyword A-L*, 1983 *Government Reports Announcements & Index*, 1983-12 *Sharks of the Shallows* Jeffrey C. Carrier, 2017-08-31 Thrilling underwater photographs enrich this unique guide to the shallow water sharks of Florida and the Bahamas Agile sleek and precise sharks display many qualities we can admire and appreciate These marvels of evolution have adapted to thrive in every major aquatic realm on the planet from frigid Arctic waters through temperate but stormy seas and on into the tropics However few places on Earth are home to the amazing diversity of shark species that beautify the shallow waters of Florida and the Bahamas In this first ever book dedicated to the sharks of this region biologist Jeffrey C Carrier reveals the captivating lives of these large marine predators and describes how they have survived for over 400 million years Guiding readers through basic biology key attributes and identification tips the book explores what makes sharks such successful apex predators Carrier explains fascinating phenomena including the reason for the bizarre shape of the hammerhead how a

bull shark is able to swim hundreds of miles up freshwater rivers what lies behind sharks remarkable capability to learn and remember and why many scientists believe that they are equipped with the most sophisticated sensory systems in the animal kingdom With the stunning full color underwater photography of Andy Murch Jillian Morris and Duncan Brake *Sharks of the Shallows* brings boaters fishers divers and shark lovers directly alongside these unfairly maligned creatures And not a moment too soon Sharks are experiencing stresses unlike any in their long history and are struggling to survive in a changing ocean They will continue to grace our coastlines only if we care enough to understand them *A Field Key to the Florida Sharks* Phillip C. Heemstra,1965 ***The Florida Shark Story*** Robert Franklin Hutton,1959 ***Sharks of Florida, the Bahamas, the Caribbean and the Gulf of Mexico*** Jeremy Stafford-Deitsch,2000 This guide contains useful and easily accessible information on a wide range of topics concerning sharks and their interaction with divers The authors main concern is that sharks should be understood rather than feared and that through our knowledge of sharks will come a deeper appreciation of their nature and desire that they should be conserved rather than hunted to extinction ***Sharks and Shark Products in Prehistoric South Florida*** Laura Kozuch,1993 Discusses how shark remains encountered in archaeological sites in Florida answer questions regarding prehistoric shark fishing technologies as well as the materials and methods of using the remains by the early Indians *Island Red* Matt Serafini,2016-07-11 It s a species that has been around for 80 million years It has over 300 teeth in 25 rows to trap its prey It has very rarely been found in depths above 160 feet meaning the frilled shark has never posed a threat to humans Until now The residents of Crystal Key Florida didn t think there was anything to worry about A missing girl with a troubled past was easy to dismiss but that was only the beginning When fishermen disappear and two girls are attacked on open water everyone assumes the culprit is a predator stalking their piece of the Atlantic But as an offseason hurricane descends and communications with the mainland are severed Crystal Key is about to discover that terror doesn t only come from below *ISLAND RED* Hold your breath Until it s time to scream

Quantifying Habitat Protection and Preference for Shark Species in South Florida and The Bahamas Using Satellite Telemetry Fiona Graham,2012 Marine protected areas MPAs are effective at employing ecosystem based management as a conservation tool however these networks of protected zones must be carefully chosen Therefore strategic area placement and size is crucial for the best conservation outcome While the benefits of implementing clear protected zones are obvious for species that live sedentary lifestyles the proportion of habitat protection that they offer to wide ranging species is less clear Here we analyze satellite telemetry data in order to determine key habitat areas for three wide ranging shark species in both the south Florida and Bahamas regions and then quantify the level of potential habitat protection that is offered to these species by both management zones within Florida and The Bahamas EEZ We further assess their movements and habitat use with regards to habitat preference specifically water column depth and distance from land The three species selected for this study are the great hammerhead *Sphyrna mokarran* tiger shark *Galeocerdo cuvier* and bull shark

Carcharhinus leucas These species were selected primarily because as a group they are the apex predators in the region are representative of the region's marine megafauna and they rank as a conservation priority. The study area encompasses a number of different MPAs each differing in qualities such as purpose, management agency, level of protection, and restrictions on human uses. However, for this study, we are most concerned with locational boundaries and level of protection offered. More specifically, we primarily look at those areas that restrict fishing, which is a major anthropogenic threat to the study species. To accomplish this analysis, we use ArcGIS, a geographical information systems program, to overlay MPA data in the study region with analysis of satellite telemetry data. Core activity space was determined using kernel density estimates, and the 50% kernel density estimate isopleth was considered critical habitat. The proportion of critical habitat that is protected for each target species was then calculated by determining the percent overlap of the critical habitat area with protected areas relevant to each species. To supplement this assessment, we then evaluate habitat preference based on overlap of critical habitat use areas and physical factors where bathymetry data is overlaid with kernel density estimate isopleths. Mean and max distance from land was also calculated for all interpolated points for each species, and all interpolated points within defined critical habitat boundaries. This analysis allowed us to quantify habitat use with regards to water column depth and distance from shore. Finally, we created separate seasonal kernel density estimates for all species for the wet and dry seasons in order to evaluate seasonal habitat preference. Results from 26 tagged bull sharks demonstrate that Biscayne and Everglades National Parks are high use areas for these sharks, and that none of their critical habitat is currently within areas that protect the species from fishing pressure, more specifically prohibiting the landing of the species. Analysis of data from 22 tagged great hammerhead sharks illustrates that 17.88% of their critical habitat is currently protected, almost all of which is due to regulations that prohibit the landing of the species within Florida state waters. Finally, 34.74% of tagged tiger shark critical habitat is currently protected due to regulations that prohibit the landing of the species within Florida state waters and regulations prohibiting shark fishing within The Bahamas EEZ. Habitat preference results are consistent with our previous analysis and show that bull sharks prefer depths of less than 10 meters and are on average very close to land. We found that mean distance to shore for all interpolated bull shark points was 6.4 km, and mean distance to shore for all interpolated bull shark points that lie within their defined critical habitat area was 4.3 km. Data from our 44 tagged tiger sharks demonstrated that 78.25% of their critical habitat consists of depths greater than 100 meters, and mean distance from land for all points was furthest for this species at 176.6 km. Average distance to shore for all points within the tiger shark critical habitat was 71.9 km. We found that great hammerhead critical habitat was split relatively evenly between each depth range, and their mean distance to shore for all points, and for only those points within their critical habitat, was 82.8 km and 16.6 km, respectively. Finally, seasonal kernel density estimates created for the wet and dry seasons showed that habitat use does indeed seem to vary by season. Many wide-ranging marine top predators are experiencing population declines globally. Pauly

et al 1998 Myers Worm 2003 Hampton et al 2005 Dulvy et al 2008 Marine reserves are the first step toward evaluating how effective these MPAs are as conservation tools and understanding how we can work to improve them The results from this study have valuable implications for marine conservation planning and help to develop an understanding of the current and potential level of protection for the top predator species that play integral roles in south Florida s and The Bahamas ecosystems

Commercial Shark Fishing and Processing in Florida Dale S. Beaumariage,1968

The Shark Attack Files Jeff Klinkenberg, University of Florida,2016-11-14 The University of Florida has an ambitious goal to harness the power of its faculty staff students and alumni to solve some of society s most pressing problems and to become a resource for the state of Florida the nation and the world In 1958 a panel funded by the Office of Naval Research initiated the formation of the International Shark Attack File the first comprehensive documentation of shark attacks on a global and historical level In 1988 the file was transferred to the Florida Museum of Natural History at the University of Florida It is part of the Florida Program for Shark Research directed by George H Burgess the planet s expert on shark attacks and staffed by a world renowned team of research scientists and educators Travel the globe with Burgess the Sherlock Holmes of shark attacks as he studies mauled remains and the scars of the lucky survivors His most famous case took him to an idyllic Red Sea resort where panic had set in after five attacks occurred in a single week The attacks were carried out by Oceanic White Tips and a Mako deep water species that had no business being so close to the beach Following the clues dive boat operators feeding sharks by hand to entertain tourists the disappearance of the yearly tuna catch and the dead sheep New Zealand cargo companies had been tossing overboard Burgess solves the mystery of the shark attacks for Egyptian tourism officials and offers a list of best practices But not all cases end with an easy prescription In St Petersburg Beach Florida he visits a recent shark attack victim bitten just off her dock on Boca Ciega Bay While the victim would prefer to forget the fateful day the sharp toothed jaws of the Bull Shark latched onto her leg just below the knee Burgess gently coaxes the story from her It will go in the file to educate other shark researchers and educators and help us better understand the world s most feared predator The stories chronicled in Gatorbytes span all colleges and units across the UF campus They detail the far reaching impact of UF s research technologies and innovations and the UF faculty members dedicated to them Gatorbytes describe how UF is continuing to build on its strengths and extend the reach of its efforts so that it can help even more people in even more places

Florida Fossil Shark Teeth Identification Guide Robert Fuqua,2020-01-24 Hunting fossil shark teeth is a very popular activity in Florida Every day people find shark teeth and wonder what kind of shark they came from This identification guide answers those questions with color photos and detailed descriptions

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