

# The Secret Lives of Fish

## How scientists collect information about fish

### 1. Acoustic Telemetry

#### What is this?



An **ACOUSTIC RECEIVER** is a listening station that 'hears' the unique pings from a fish tagged with an **ACOUSTIC TAG**.



#### How does it work?



The **RECEIVER** can 'hear' tags up to 500m away.

Each receiver recognises and **RECORDS** the **UNIQUE PINGS** from all tagged fish that swim past it.

#### How do scientists use it?

This is used to **TRACK THE MOVEMENTS** of tagged fish.

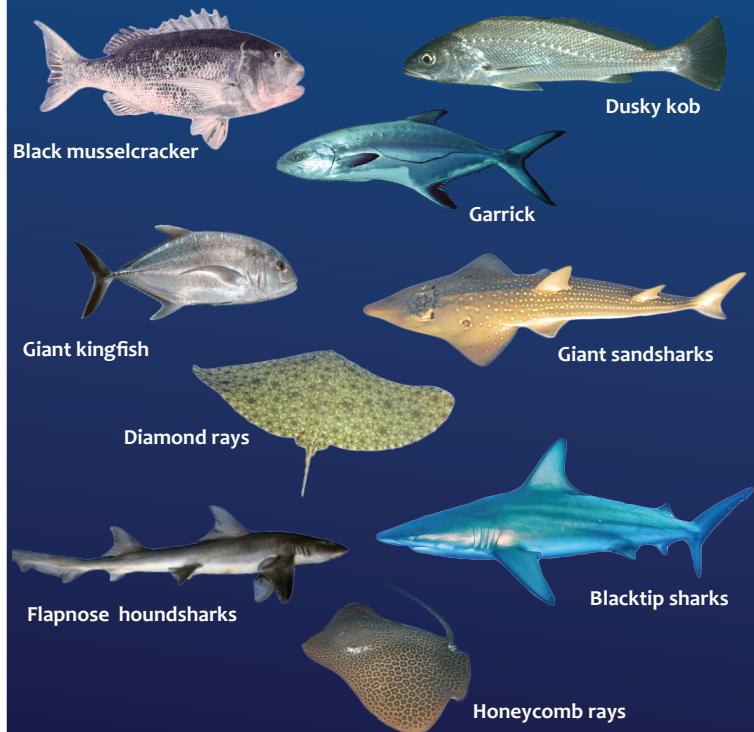
Receivers are placed in strategic positions along the whole coast of South Africa. By downloading all the information stored on each receiver once a year, scientists can work out **WHERE FISH GO** in the ocean.

#### How does Acoustic Telemetry help us to understand MPAs?

We have acoustic receivers in the following MPAs:



To date our scientists have tagged the following species with acoustic tags :



When we retrieve the receivers and download the data our scientists will have fascinating insights into the **MOVEMENT PATTERNS** of all of these species.

This information will help us to understand **HOW FISH MOVE BETWEEN MPAS**.



Acoustic Tracking Array Platform



WILDOCEANS

A programme of the WILDLIFE



INCORPORATING

OCEANOGRAPHIC

RESEARCH INSTITUTE

SEA WORLD

Helping people to care for our ocean