



Bullheads.org



YOU CAN HELP!
TÚ PUEDES AYUDAR!

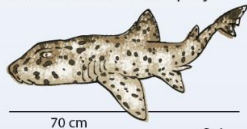
TAKE A PHOTO AND
UPLOAD IT HERE!

TOMA UNA
FOTO Y SÚBELA
AQUÍ!



Background

Scientific name: *Heterodontus quoyi*



Oviparous

Common names:

- Galapagos bullhead shark
- Tiburón gato de Galápagos, Suño, Dormilón

Distribution: Perú and Galápagos

Habitat: Benthic; shallow rocky reefs

Population trend: Unknown

Threats: Fisheries, habitat destruction, climate change



IUCN

DD

Data Deficient

Drivers of Extinction

Small geographic range + geographic isolation

Small population size
low genetic diversity
low connectivity

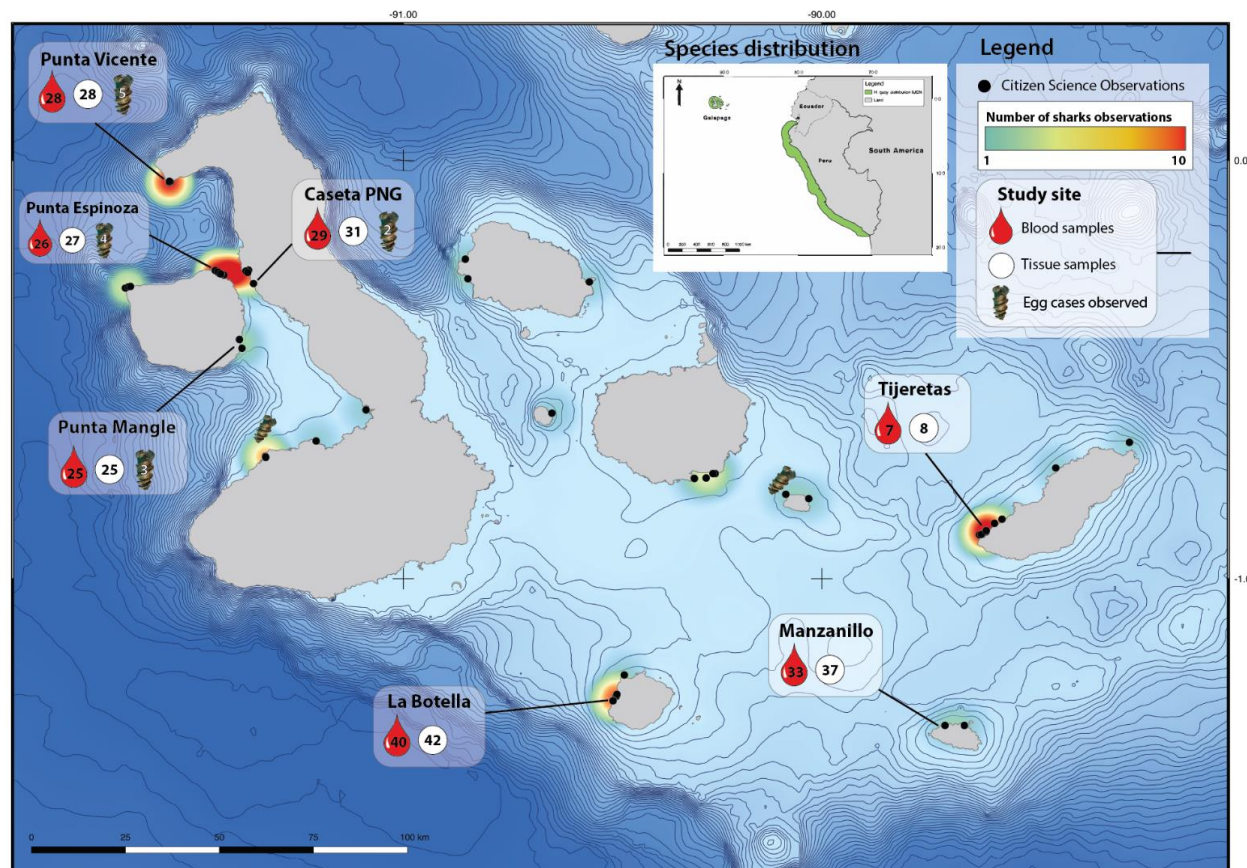
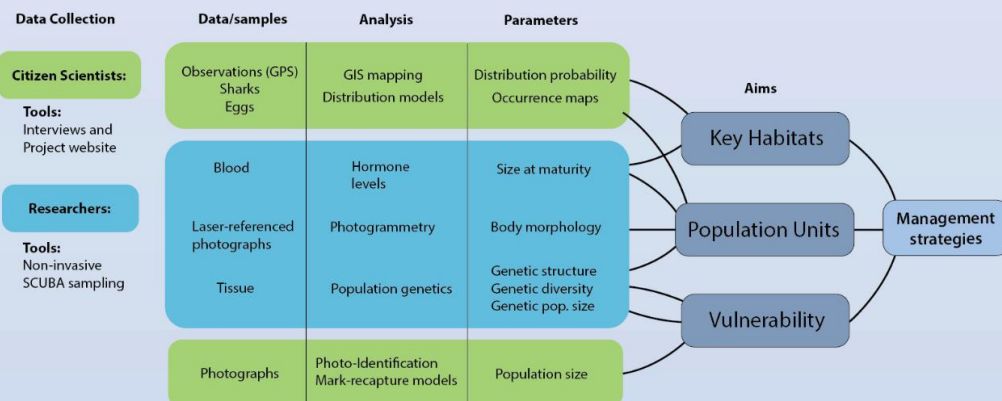
Increased vulnerability

Higher Risk of Extinction

Aims

- Identify key habitats
- Delineate population units
- Estimate vulnerability

Methods



Next steps

Research:

- Run species distribution models
- Population genetic analysis
- Determine size at maturity by combining hormone levels and body morphology

Outreach:

- Annual Shark Day
- Galapagos Shark Conservation Hero Campaign

People

Project leader:

Maximilian Hirschfeld

Supervisors:

Adam Barnett, Marcus Sheaves, Christine Dudgeon

Collaborators:

Jaime Chaves, Cynthia Awruch

Research Assistants:

Alice Skehel
Martin Carrera
Brittany Morse
Nataly Guevara

Volunteers:

Thank you to all the volunteers that have supported this project

Results to date

- Citizen Scientists:**
- Observations with GPS positions: **64 sharks**
 - 10 egg cases** observed
- Researchers:**
- 198 tissue samples** (87 females and 111 males)
 - 188 blood samples** (79 females and 109 males)
 - 6 egg cases** observed

Between 2015 and 2018 tissue samples and blood samples were collected from **7 locations** on **5 islands** and all sharks were photographed with a laser reference to measure their body morphology. Tissue samples have been sent for genomic sequencing in Australia and the blood samples are being analyzed to determine blood hormone levels.

More Info

Project website:

www.bullheads.org

Conservation Photography website:

www.enphocus.net

Twitter:

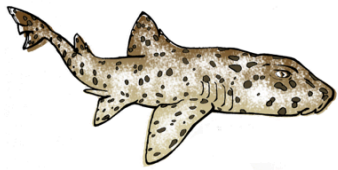
@Shark_Islands

Contact

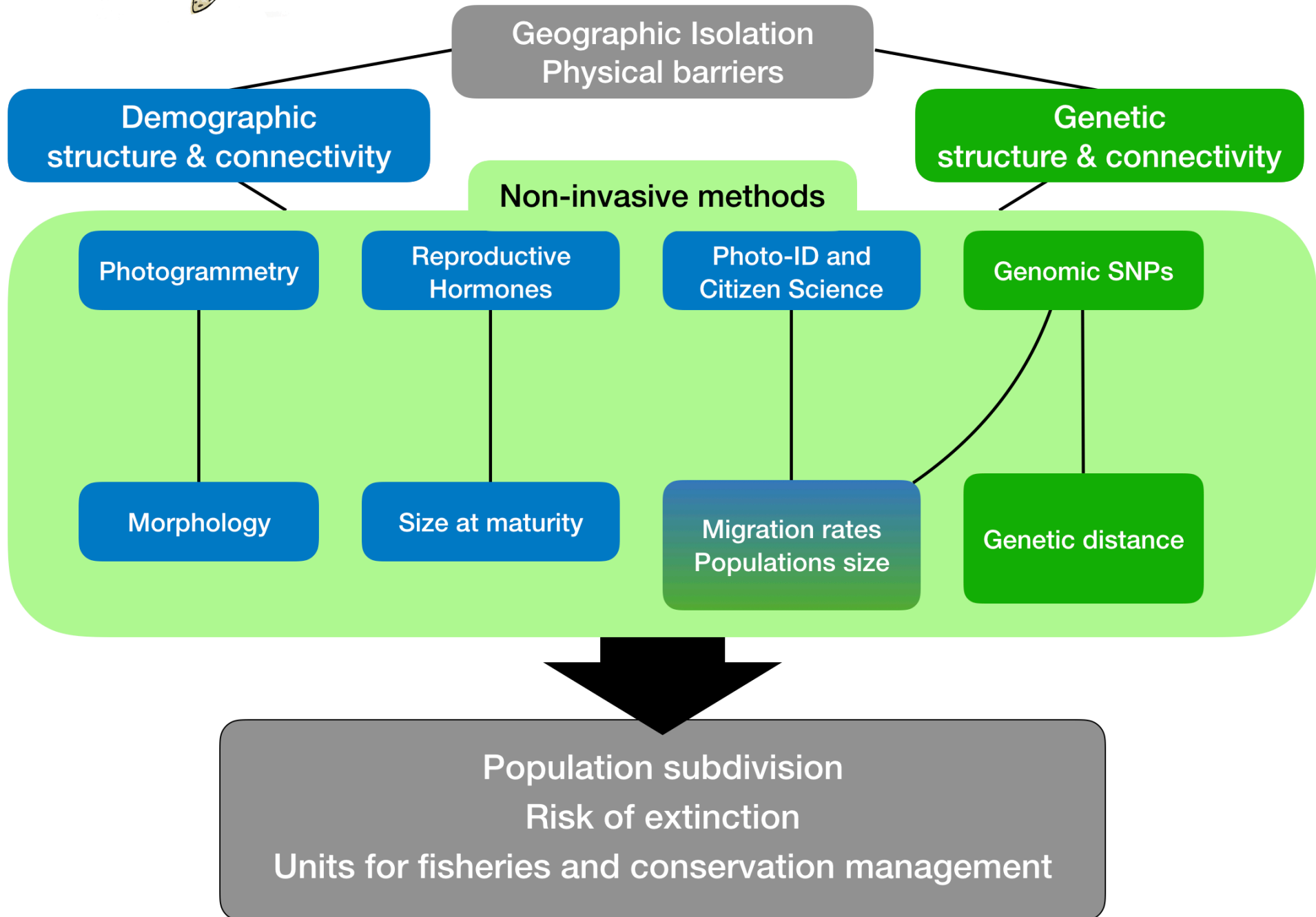
Maximilian Hirschfeld
Galapagos Science Center
James Cook University
maxh@enphocus.net
www.enphocus.net

Please take a card!





The Galapagos Bullhead Shark Project





Certificado

A:

Por haber participado en el concurso Shark Hero 2019,
realizando acciones para desarrollar ciencia ciudadana
en las islas Galápagos, convirtiéndose en
guardián de la fauna marina.

Puerto Baquerizo Moreno, 25 de junio de 2019

Carlos Mena, PhD
Co-Director Galapagos Science Center

Max Hirschfeld
Investigador GSC
Autor Galapagos Shark Hero

Organizado por:



Auspiciado por:



Puerto Baquerizo Moreno, 25 de junio

Carlos Mena, PhD
Co-Director Galapagos Science Center

Max Hirschfeld
Investigador GSC
Autor Galapagos Shark Hero

Organizado por:



Auspiciado por:

Auspiciado por:

