Hoiho population and tracking

Thomas Mattern

May 2019
Observed penguin numbers at Kumo Kumo Whero and Boulder Beach

https://doi.org/10.7717/peerj.3272
Population projections for hoiho at Boulder Beach
Adult survival and SST anomalies

SST explains 33% of population variation

https://doi.org/10.7717/peerj.3272
Other factors impacting hoiho population

- Human disturbance
- Exotic predators
- Disease
- Pollution
- Habitat degradation
- Set net bycatch

https://doi.org/10.7717/peerj.3272
Foraging movement & dive behaviour data 2003-2015
Locations of hoiho breeding sites
Foraging data gaps
Hoiho tracking
post-guard Dec 2018-Jan 2019

CATLINS
Nugget Point
13 Dec 2018 - 4 Jan 2019

Deployments: 4 adult penguins
Recoveries: 1 device (destroyed)
Deployments: 1 adult penguins
Recoveries: 1 device

Penguin Bay
21-31 Dec 2018
Te Rere - 982 00 04055 33506

Deployments: 3 adult penguins
Recoveries: 2 devices
Hoiho tracking
Pre-moult Feb-Mar 2019

ARAMOANA
OTAPAHI
Habitat use model
Habitat use model
(Sediment)
Habitat use model
(prior to tracking study)
Hoiho tracking
Pre-breeding - ongoing

Nugget Point (3 birds)

Penguin Bay (1 bird)

Te Rere (2 birds)
Hoiho tracking
Pre-breeding - ongoing
Nugget Point
9-19 May 2019
Hoiho tracking
Pre-breeding
ongoing
13-25 May 2019
Te Rere