Field Effort

![Field Effort Graph](image)

**NWHI Subpopulation**

- FFS
- LAY
- LIS
- PHR
- MDY
- KUR

**Years**

- 2012
- 2013
- 2014
- 2015
- 2016
- 2017

**Field Effort (days)**

- 0
- 20
- 40
- 60
- 80
- 100
- 120
- 140
Hawaiian Monk Seals
2017 Review

2017 Population Update

Population Trends

2% increase over four-year period (2013 – 2017)
Hawaiian Monk Seals
2017 Review

71 NWHI Interventions
- 28 FFS pups translocated from shark areas
- 6 FFS pups rescued from high waves
- 9 released from debris
- haze aggressive males
- antibiotics for wounds

22 MHI Interventions
- 9 seals dehooked
- health interventions
- translocations
Hawaiian Monk Seals
2017 Review

Marine Debris Removal
• Removal & accumulation study
Vaccination Effort

- Morbillivirus vaccination
- 376 seals vaccinated NWHI
- Near herd immunity
  - Lisianski
  - Midway
  - Kures
Shark Mitigation at FFS

- 42 pups born
- 6 disappearances due to sharks
- 4 pups injured by sharks

- Shark fishing effort low
  Trig Island >75% awash
- 51.5 hr from shore
- 10 hr by boat
- 1 shark removed
Ke Kai Ola Rehabilitations

- 4 2016 rehabs released in 2017
- 3 seals rehabbed 2017
Partnering with FWS to mitigate risks related to Tern Island infrastructure.
2018 Field Camp Plans

- Tern Island spring camp - Feb
- Deployment April 15
- Pick up Aug 5
- Tern Island fall camp - Oct
Hawaiian Monk Seals
2018 Preview

Tern Island Spring Camp

- Rat bating
  no rats

- Entrapment mitigation
  7 albatross rescues
2018 Research & Recovery Activities

• Population assessment
• Individual marking
• Interventions
• Debris removal
• Assess rehab candidates
2018 Special Projects

• Foraging Ecology
  • Focus on juveniles
  • Track diving and foraging
  • Novel instruments

• Unmanned Aerial Systems
  • Beach surveys
  • Disturbance study
  • photogrametry