

# Military Overflight Effects on Nesting American Oystercatchers on Cape Lookout National Seashore, NC

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## Objectives:

1. To assess if military overflights affect the behavior, reproductive success, and survival rates of breeding AMOYs at Cape Lookout.
2. To assess other potential disturbance factors and the correlating response of the American Oystercatchers.



## Methods:

- **Baseline audio monitoring** of ground noise level across the entire Park
- 24-hour continuous **video and audio monitoring** of American Oystercatcher nests
- **Heart-rate monitoring** of incubating individuals

# Video and Audio Monitoring



32 nests (55% of 58 nests found) were monitored with video and audio recording equipment

# Heart Rate Monitor – False Egg



18 nests (31% of 58 nests found) had monitoring with heart rate eggs

# Assembled audio, video, and heart rate

The screenshot displays the Adobe Audition interface for a session named "Example\_Nest22\_flight.ses". The workspace is set to "Video + Audio Session".

- Video Panel:** Shows a video clip of a bird on a beach. The timestamp at the bottom of the video is "2010/05/06 12:32:02".
- Files Panel:** Lists three files:
  - Nest22\_6-13May2010 (1)\_120m\_00s\_240m\_00s.mp3
  - Nest22\_6-13May2010 (56).ASF
  - Nest22\_6-9May2010\_HR\_120m\_00s\_240m\_00s.mp3
- Mixer Panel:** Shows three tracks:
  - Track 1: [01S] IDT Audio - Master
  - Track 2: [01S] IDT Audio - Master
  - Track 3: (empty)
- Timeline:** Displays a video track labeled "Nest22\_6-13May2010 (56).ASF" and two audio tracks. A yellow vertical line indicates the current time position at 1:23:17.248.
- Transport Panel:** Shows playback controls and the current time: 1:23:17.248.
- Selection/View Panel:** Shows a selection from 1:23:17.248 to 0:00.000.
- Status Bar:** Displays "Stopped", "Nest22\_6-9May2010\_HR\_120m\_00s\_240m\_00s", "44100 • 32-bit Mixing", "2.74 GB", "2:19:06.745", "63.29 GB free", "53:30:47.10 free", and "Timeline".

# Heart Rate

