

Digital Aerial Baseline Survey of Marine Wildlife in Support of Offshore Wind Energy

Fall 2017 Target Extraction Summary Report



NYSERDA



Digital Aerial Baseline Survey of Marine Wildlife in Support of Offshore Wind Energy

Fall 2017 Target Extraction Summary Report

Prepared for

New York State Energy Research and
Development Authority
17 Columbia Circle
Albany, NY 12203-6399



Prepared by

Normandeau Associates, Inc.
4581 NW 6th Street, Suite A
Gainesville, FL 32609
352-372-4747
www.normandeau.com



with

APEM, Inc.
747 Southwest 2nd Avenue, Suite 226
Gainesville, FL 32601



February 2018



Introduction

Target extraction for the Fall 2017 survey for the NYSERDA Offshore Planning Area (OPA) was started in November 2017. All target extraction and quality control of target extraction was completed by February 2017.

Overview

The vast majority of the images collected contained no evidence of living organisms. More than 98% of the images from the OPA were blank. Of the 323,554 images analyzed, 319,811 were blank. Of the 31,985 (10%) blank images that were re-examined, 59 were determined to contain targets (living organisms) that had been missed in the initial target extraction. The overall quality rate of the initial extraction was 99.82%, well within the quality control criteria established for the project. Images found to contain organisms were transmitted to taxonomists for identification.

Total Images and Area Surveyed

Area	Total Number of Images Collected	km ² of Analyzed Images within the Survey Area	Percent Coverage	Survey Area (km ²)
OPA	323,554	3,168.68	7.24	43,745.20

Blank Images Detected

Area	Total Images Analyzed	Blank Images			
		Number Detected	Number Sent for QA	Total Percent QA	Total Percent Blank
OPA	323,554	319,811	31,985	10.00	98.84

Target Extraction Quality Control Results

Number of Images for QC	Number of Images QCd as Blank	Number of Images QCd Not Blank	% Agreement Reached
31,985	31,926	59	99.82

Animal Order Found in Image during Extraction QC	Number of Individuals
Birds	36
Marine Mammals	2
Turtles	2
Fish (includes sharks)	19
TOTAL	59

Targets Detected and Sent for Identification

Group	# Individuals
Avian	9,337
Marine Mammals	1,243
Turtles	13
Sharks	13
Rays	2
Large Bony Fish	118
Vessels	4
Fixed Structures	4
Total	10,734