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

Spring 2018 Target Extraction Summary Report

NEW YORK STATE OF OPPORTUNITY. | NYSERDA

NORMANDEAU ASSOCIATES
ENVIRONMENTAL CONSULTANTS

APEM

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Introduction

Target extraction for the Spring 2018 survey for the NYSERDA Offshore Planning Area (OPA) was started in July 2018. All target extraction and quality control of target extraction was completed by October 2018.

Overview

The vast majority of the images collected contained no evidence of living organisms. More than 96% of the images from the OPA were blank. Of the 318,455 images analyzed, 308,772 were blank. Of the 30,912 (10.01%) blank images that were re-examined, 75 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 99.76%, well within the quality control criteria established for the project. Only endangered species found during target extraction QC were incorporated into the dataset and sent to taxonomists for identification.

Extracted targets found to contain organisms, boats, and buoys were transmitted to taxonomists for identification. All images containing targets were uploaded to ReMOTe.

Blank Images Detected

Area	Total Images Analyzed	Blank Images			
		Number Detected	Number Sent for QA	Total Percent QA	Total Percent Blank
OPA	318,455	308,772	30,912	10.01	96.96

Total Images and Area Surveyed

Area	Total Number of Images Collected	km² of Analyzed Images within the Survey Area	Percent Coverage	Survey Area (km²)
OPA	318,455	3,126.71	7.15	43,745.20

Targets Detected

Group	OPA
Avian	21,489
Marine Mammals	844
Turtles	1
Sharks	22,790
Large Bony Fish	793
Vessels	5
Fixed Structures	3
Total	**45,925**

Quality Control Results

Number of Images for QC	Number of Images QCd as Blank	Number of Images QCd Not Blank	% Agreement Reached
30,912	30,837	75	99.76

Animal order found during Blank Image QC

Animal Order Found in Image	Number of QCd Images Containing Species Group
Avian	52
Marine Mammals	3
Sharks	5
Rays	4
Large Bony Fish	7
Total	**75**