

Caomhnú Árann

UAV Surveys 2019-2022



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Contents

1. Introduction	3
2. Survey Outputs.....	3

1. Introduction

This report discusses provides details on various UAV surveys which were carried out on Aran Islands over the course of several years from 2019 to 2022 as part of the Caomhnú Árann project. The report should be read in conjunction with other reports which explain the various approaches to data collection, the drones and sensors used, UAV regulations and also information on satellite imagery and a review of a thesis undertaken in 2021.

In summary, the following UAV surveys took place:

2019

- Inis Oirr (test site with multiple sensors/drones)
- Inis Mor (1250 acres with RGB data)

2021

- Inis Mor (1350 acres with Multispectral data)

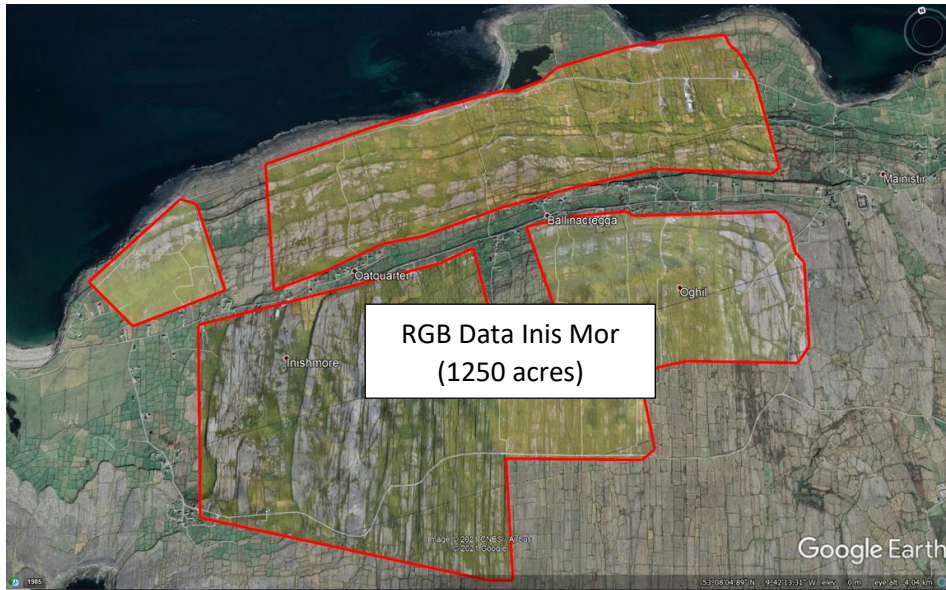
2022

- Inis Oir (500 acres with RGB data)
- Inis Meain (125 acres with multispec data and 500 acres with RGB data)

2. Survey Outputs

2019

- June 2019 Inis Oirr
 - Various drones & sensors over a small test site
 - Link to download data here:
<https://geoaerospace.box.com/s/m21vtmuq3175mmz11zy32825gppx6nm6>
- August 2019 Inis Mor
 - RGB sensors
 - Link to download data here:
<https://geoaerospace.box.com/s/4fut2nprxb5edr1s1pgl8sc783pl0h2c>



Area's 1, 2 & 3 covered in 2019 on Inish Mor with RGB sensors

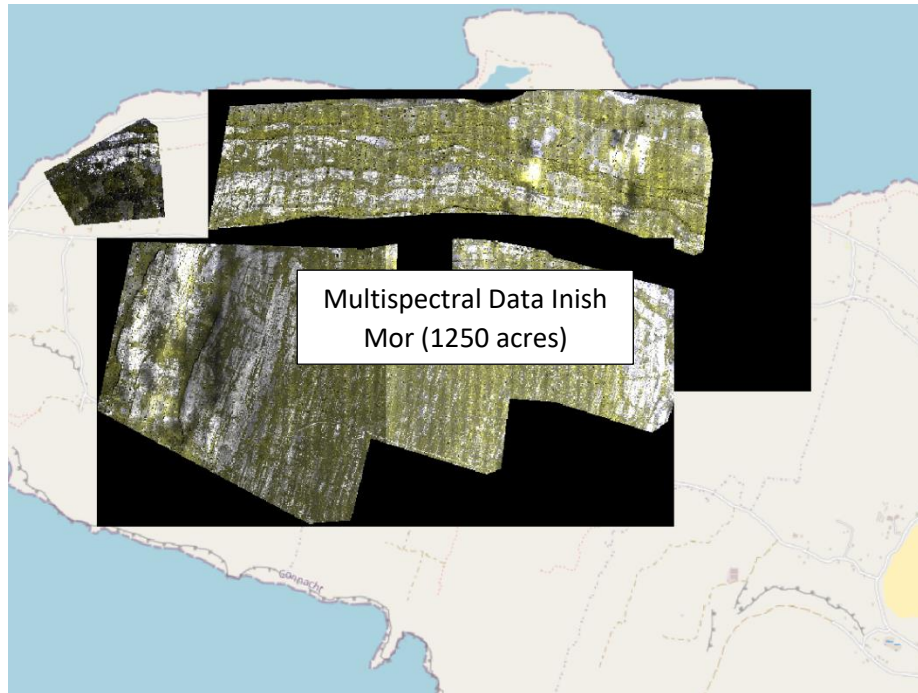


Area 4 covered in 2019 on Inish Mor with RGB sensors

2021

- June & August 201
- Multispectral data collected with DJI P4 Multispectral sensor at 4 sites on Inish Mor
- Link to download 2021 data

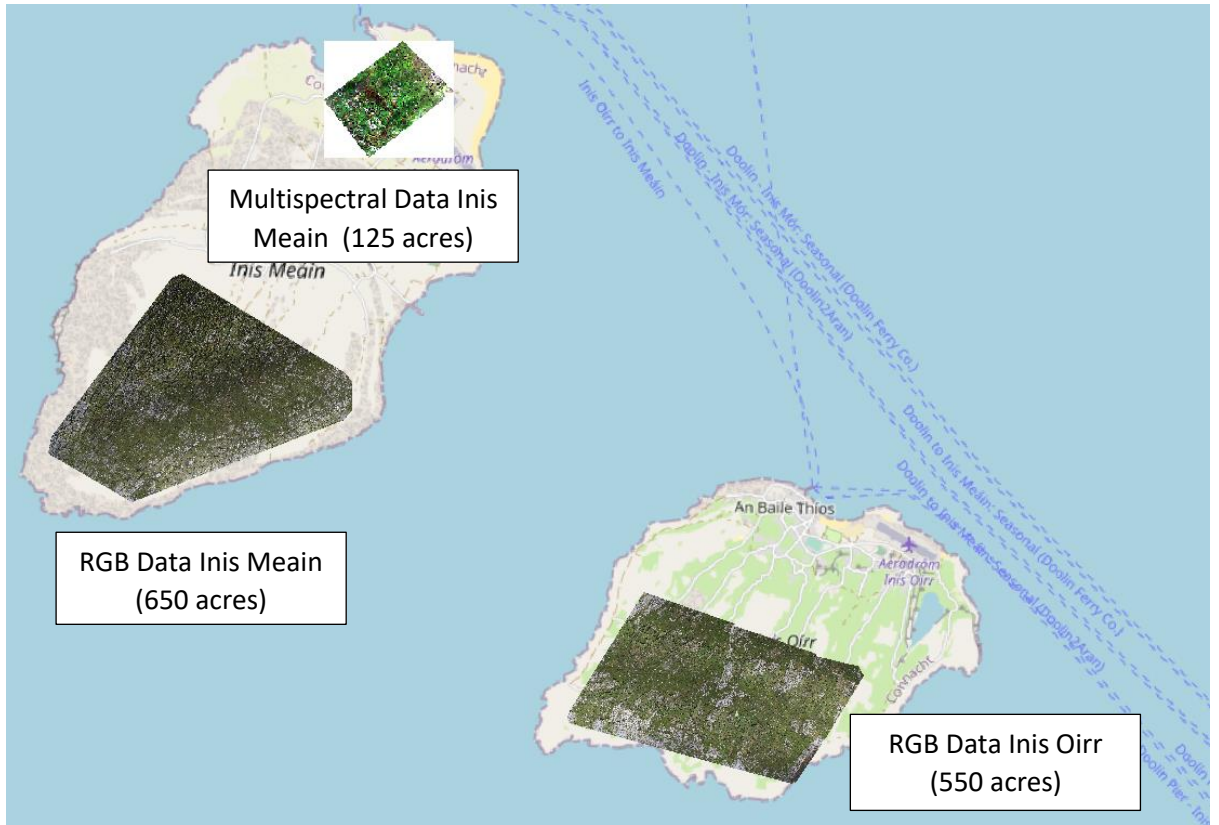
<https://geoaerospace.box.com/s/l42x0h0ixygd17e1swv5cpccwm5bo5gk>



Area's 1, 2 & 3 covered in 2021 on Inis Mor with Multispectral sensors

2022

- September 2022
- RGB data collected with RGB sensor (DJI M300 with P1 45MP RGB sensor) over 2 sites at Inis Oirr and Inis Meain and multispectral data collected over one site at Inis Meain
- Link to download the 2022 data here
 - Inis Oirr (RGB):
<https://geoaerospace.box.com/s/vq6owg79c1ssxktpken8k2vxxe62ae8i>
 - Inis Meain (RGB & Multispectral) :
<https://geoaerospace.box.com/s/i354b5rxnfyqj84dticuedae3mfm114p>



RGB & Multispectral data captured over Inis Oirr and Inis Meain in 2022