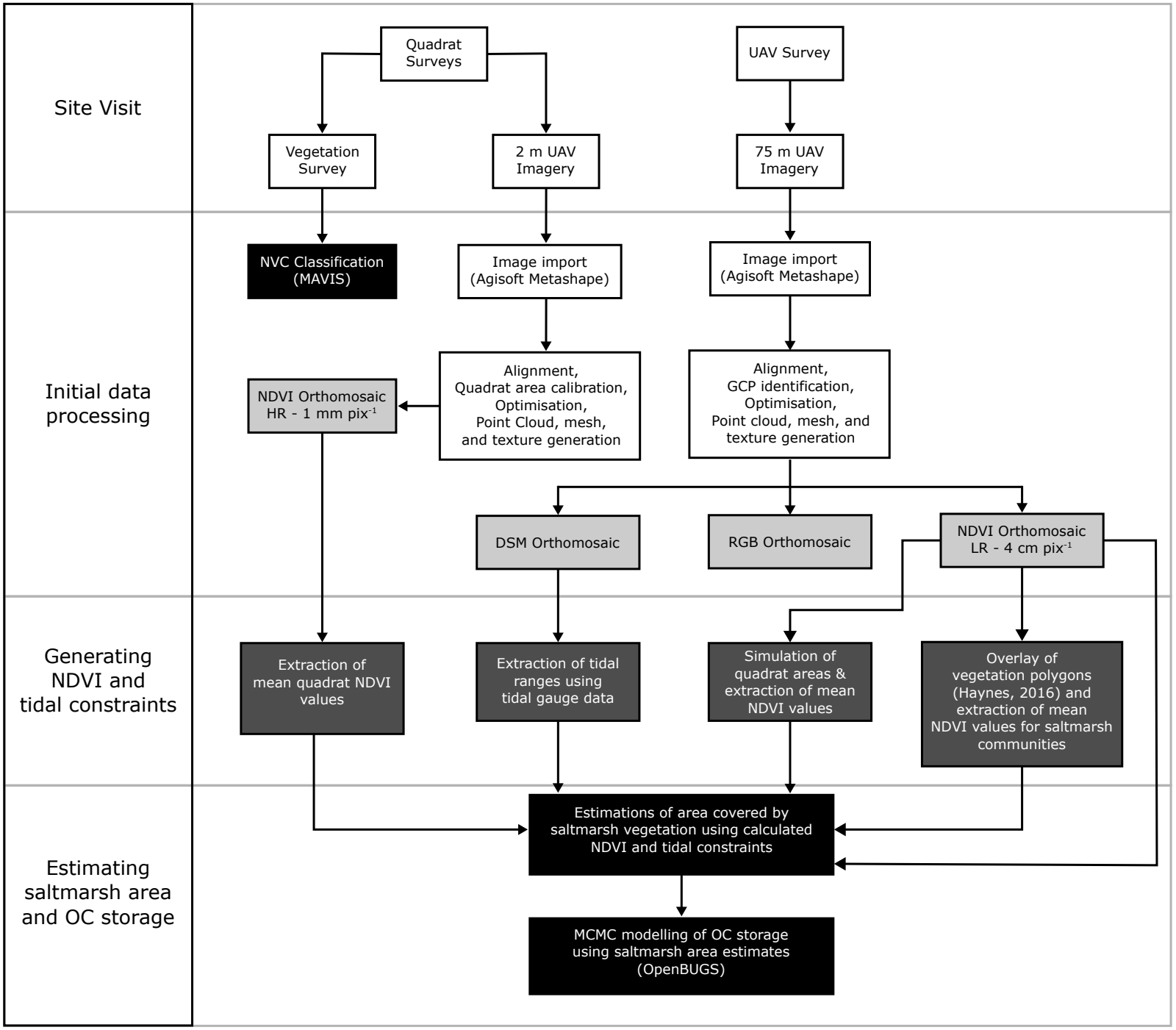
Site Visit
Quadrat Surveys
UAV Survey
Vegetation Survey
2 m UAV Imagery
75 m UAV Imagery
Initial data processing
NVC Classification (MAVIS)
Image import (Agisoft Metashape)
Image import (Agisoft Metashape)
NDVI Orthomosaic HR - 1 mm pix-1
Alignment, Quadrat area calibration, Optimisation, Point Cloud, mesh, and texture generation
Alignment, GCP identification, Optimisation, Point cloud, mesh, and texture generation
DSM Orthomosaic
RGB Orthomosaic
NDVI Orthomosaic LR - 4 cm pix-1
Generating NDVI and tidal constraints
Extraction of mean quadrat NDVI values
Extraction of tidal ranges using tidal gauge data
Simulation of quadrat areas & extraction of mean NDVI values
Overlay of vegetation polygons (Haynes, 2016) and extraction of mean NDVI values for saltmarsh communities
Estimating saltmarsh area and OC storage
Estimations of area covered by saltmarsh vegetation using calculated NDVI and tidal constraints
MCMC modelling of OC storage using saltmarsh area estimates (OpenBUGS)