Berkheide - Dichte Del 50 meter 13-01-2020

Captured: Jan 13, 2021, Processed: Jan 14, 2021

Map Details Summary ⓘ
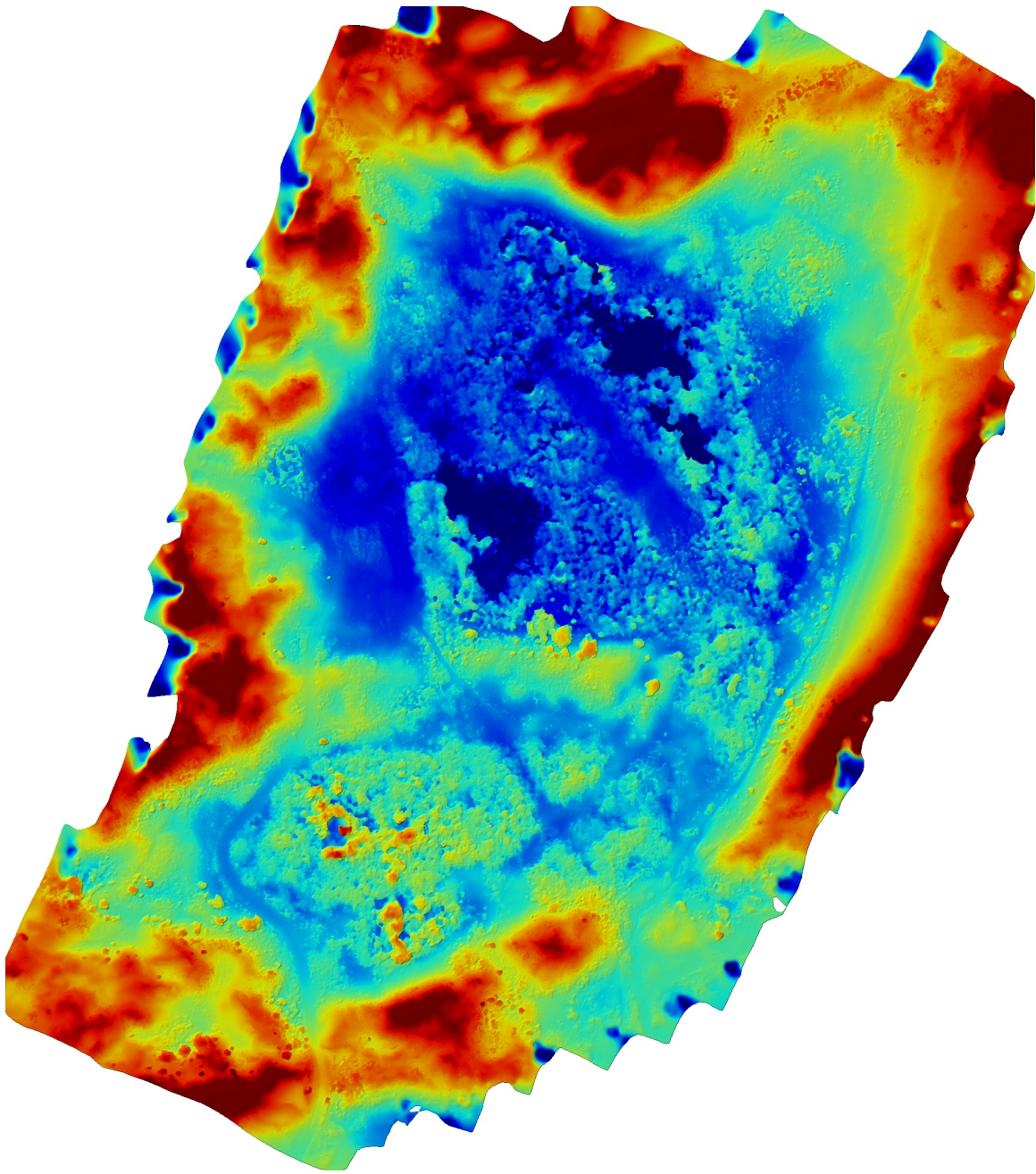
Project Name	Berkheide - Dichte Del 50 meter 13-01-2020
Photogrammetry Engine	DroneDeploy Proprietary
Date Of Capture	Jan 13, 2021
Date Processed	Jan 14, 2021
Processing Mode	Standard
GSD Orthomosaic (GSD DEM)	0.47in/px (**DEM** 1.87in/px)
Area Bounds (Coverage)	2130508.14ft^2 (63%)
Image Sensors	Hasselblad - L1D-20c

Quality & Accuracy Summary ⓘ

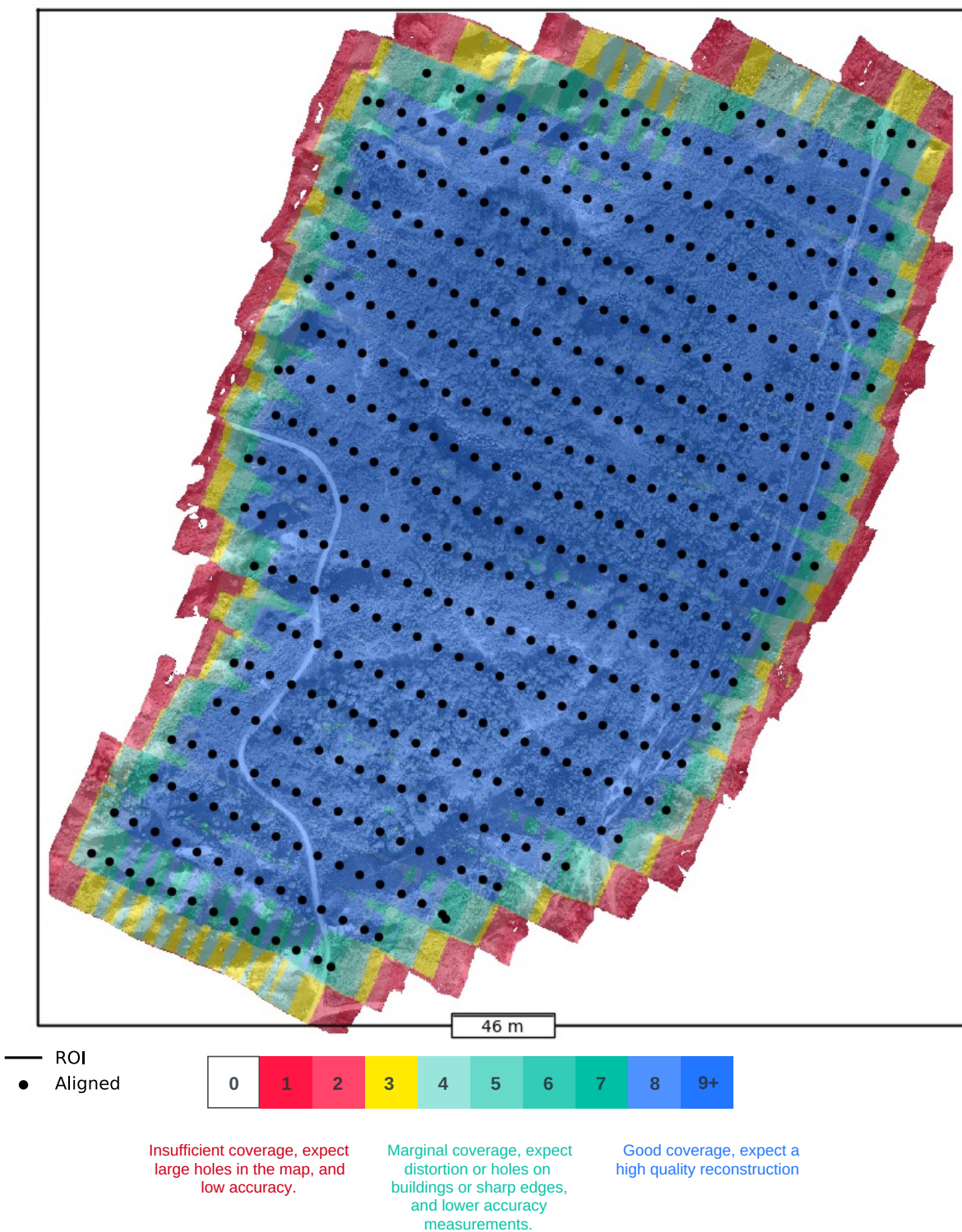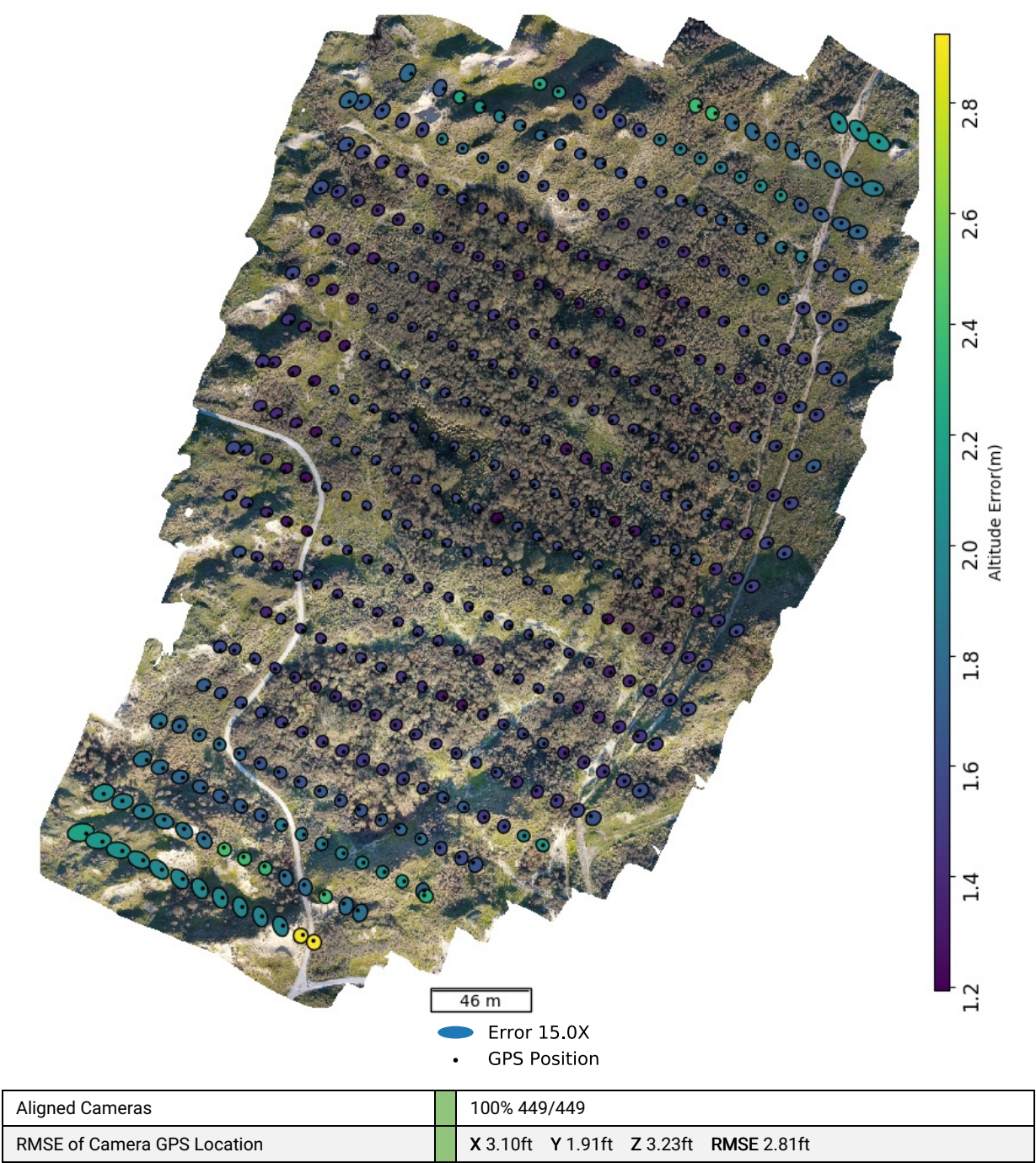|		
Image Quality		High texture images
Median Shutter Speed		1/200
Processing Mode		['**Standard Mode** - Designed to produce the best photogrammetry output based on the input imagery. Include predominantly nadir imagery for most efficient mapping of large fields and crops, natural open terrain, and generating topographical maps. Entirely nadir collects are not recommended for reconstructing the sides of buildings, overhangs, or complex equipment. Include horizontal and oblique imagery to optimize processing for high resolution 3D reconstruction of buildings, pipework & conveyors.']
Images Uploaded (Aligned %)		449 (100%)
Camera Optimization		0.01% variation from reference intrinsics

Preview ⓘ

Dataset Quality Review ⓘ

Orthomosaic Coverage ⓘ

ROI		0	1	2	3	4	5	6	7	8	9+
● Aligned											

Insufficient coverage, expect large holes in the map, and low accuracy.

Marginal coverage, expect distortion or holes on buildings or sharp edges, and lower accuracy measurements.

Good coverage, expect a high quality reconstruction

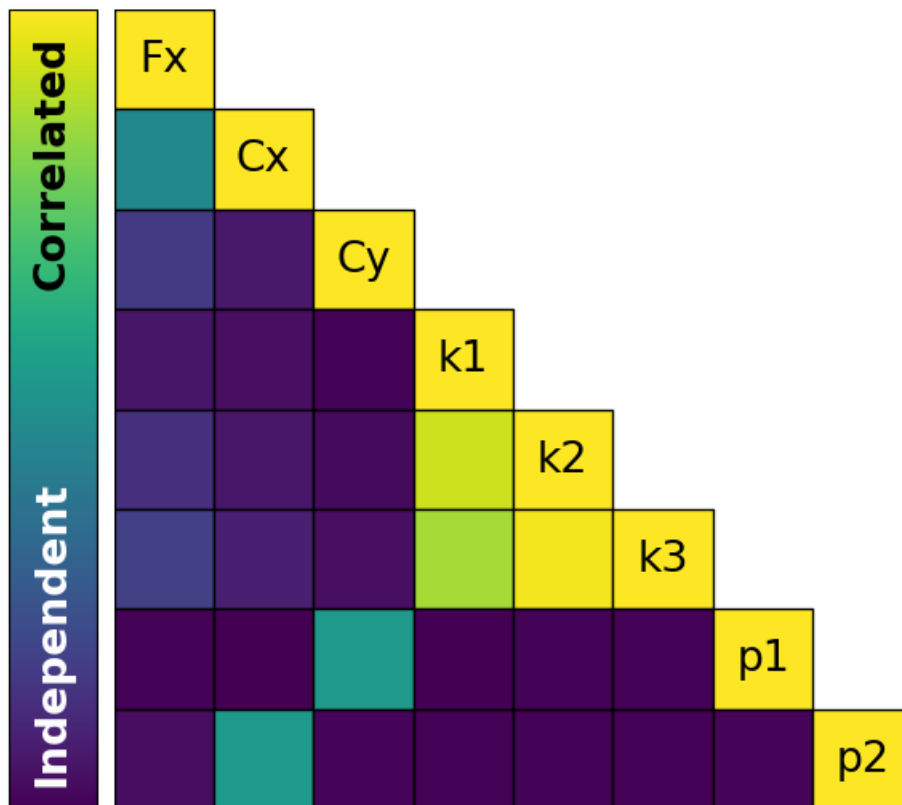| Sensor(s) Used		Hasselblad - L1D-20c
Image Count (by sensor)		449
Image Resolution		5472x3648 (~20MP)
Orthomosaic coverage (% of area of interest)		63.91
Average Orthomosaic Image Density within Structured Area		9 images/pixel
Median Shutter Speed		1/200

Structure from Motion ⓘ

46 m

⬬ Error 15.0X
• GPS Position

Altitude Error(m)

Aligned Cameras		100% 449/449
RMSE of Camera GPS Location		X 3.10ft Y 1.91ft Z 3.23ft **RMSE** 2.81ft

Camera Calibration ⓘ

Camera Optimization		0.01% variation from reference intrinsics

Hasselblad - L1D-20c

Hasselblad - L1D-20c - Distortion Map
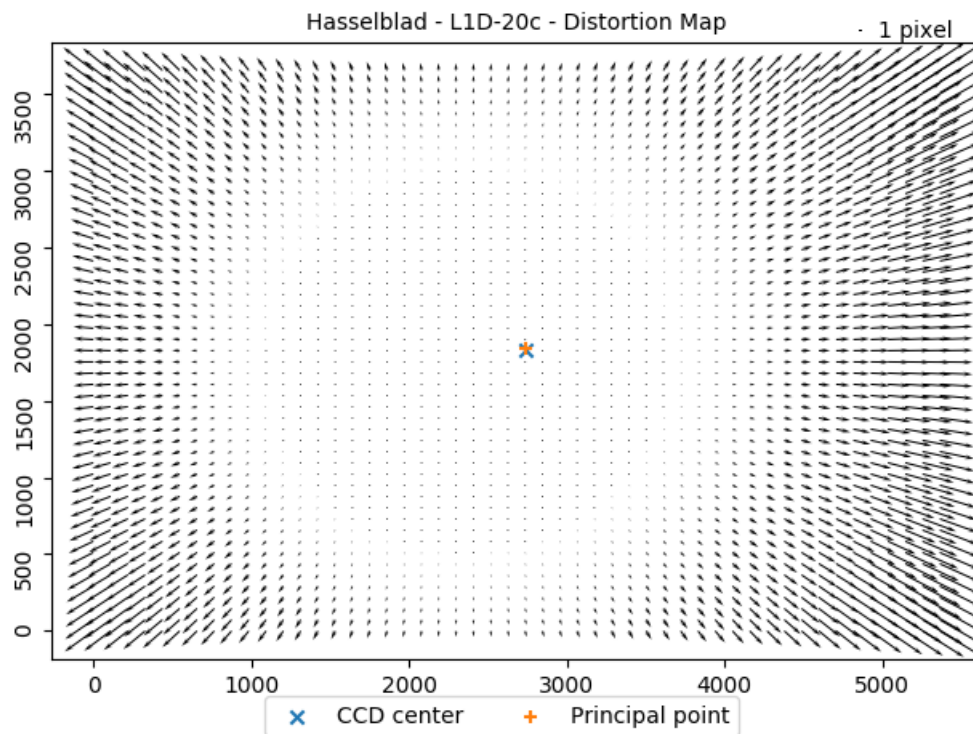
	Fx	Cx	Cy	k1	k2	k3	p1	p2
Value	4316.44	2743.08	1838.46	0.00508428	0.0241794	-0.0268941	0.000150713	0.000689672
Error	1.90762	0.0869368	0.0667233	0.429767	1.68493	2.0347	0.0192977	0.027061

Densification and Meshing ⓘ

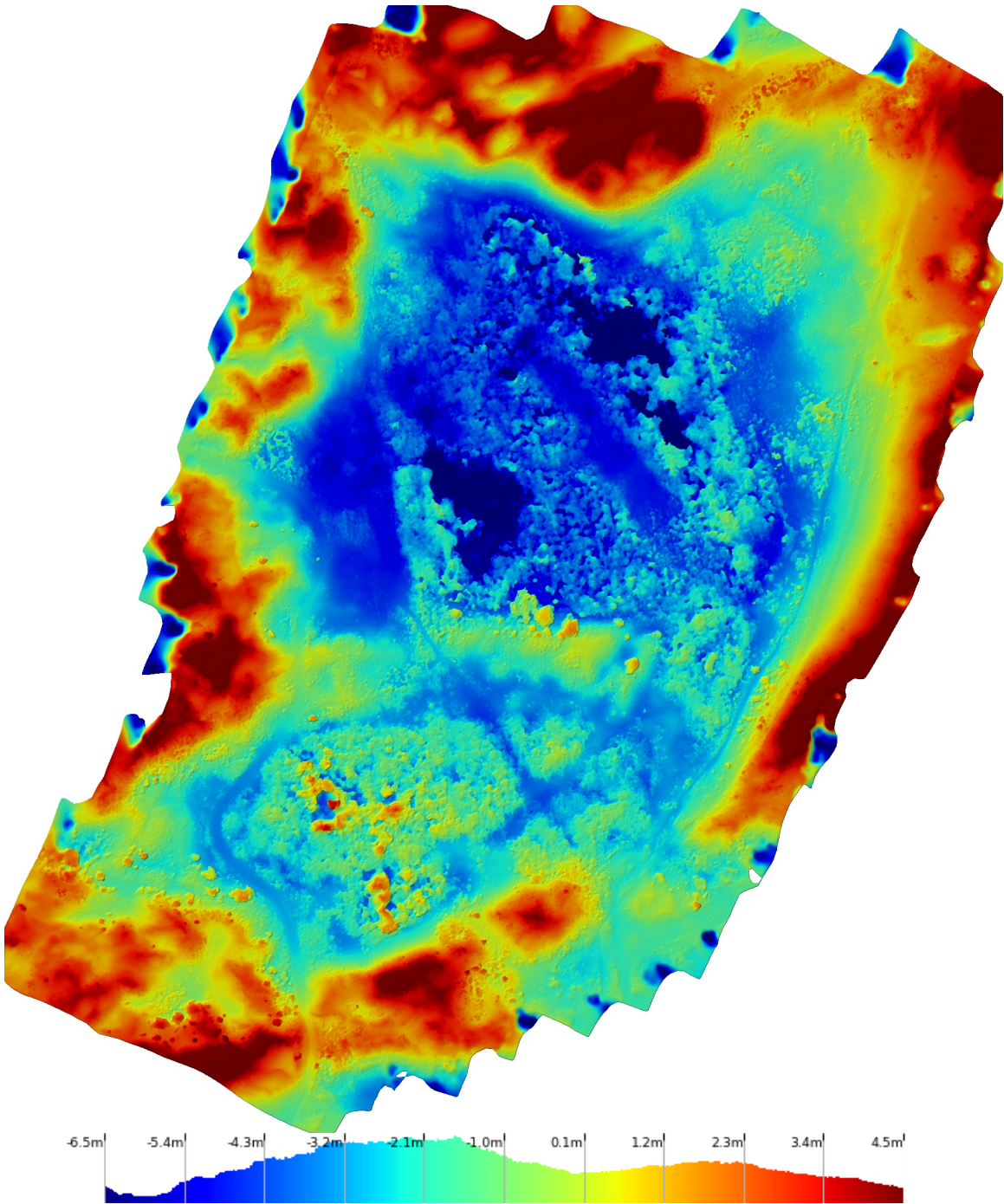|		
Processing Mode		['**Standard Mode** - Designed to produce the best photogrammetry output based on the input imagery. Include predominantly nadir imagery for most efficient mapping of large fields and crops, natural open terrain, and generating topographical maps. Entirely nadir collects are not recommended for reconstructing the sides of buildings, overhangs, or complex equipment. Include horizontal and oblique imagery to optimize processing for high resolution 3D reconstruction of buildings, pipework & conveyors.']
Processing Mode Quality		High
Nadir Images		100% Include oblique or horizontal images to improve reconstructions of man-made structures.
Oblique images		0%
Horizontal images		0%
Total Points		26.1 million
Point Cloud Density		19.13 points/ft^2
Mesh Triangles		4.0 million

Digital Elevation Model ⓘ

Mode	Generated from Mesh
DEM GSD	**DEM** 1.87in/px
Relative/Absolute	Relative Altitude vs Drone takeoff

-6.5m	-5.4m	-4.3m	-3.2m	-2.1m	-1.0m	0.1m	1.2m	2.3m	3.4m	4.5m