**Key details for thermal imaging survey**

* **Camera**
  + Optris 450. Specs here: <https://www.optris.global/thermal-imager-optris-pi400-pi450>
  + Lens: 080 (80°)
  + Lens optics: 80° x 54° FOV / f = 5.7 mm
* **Flight**
  + Flight height: 1000 ft/304.8 m
  + Flight speed: ~80 knots
* **Images**
  + Array size: 382 (W) x 288 (H)
  + Frame rate: 27 Hz
  + Full dataset subsampled to 1 image per second
  + Footprint size on ground: 490 m H x 320 m V
  + Individual pixel size (internal field of view): 0.92 m
* **Lens calibration**
  + Took 44 calibration images (should be more than we need for a good correction)
  + Array size: 382 (W) x 288 (H)
  + Used a dot board, rather than a checkerboard.
  + Matte black dots on shiny silver background
  + Dot board dimensions: 7 x 7