



We
Robotics
Global

David Johnston

Duke Marine Labs

**Aerial Robotics and Social Good
Solutions**

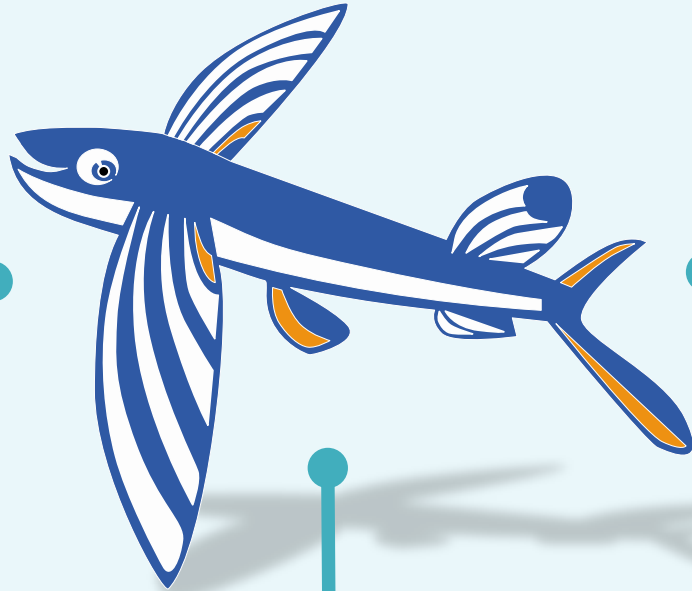
@WeRobotics

Drones in Marine Science and Conservation



Marine Robotics
& Remote Sensing

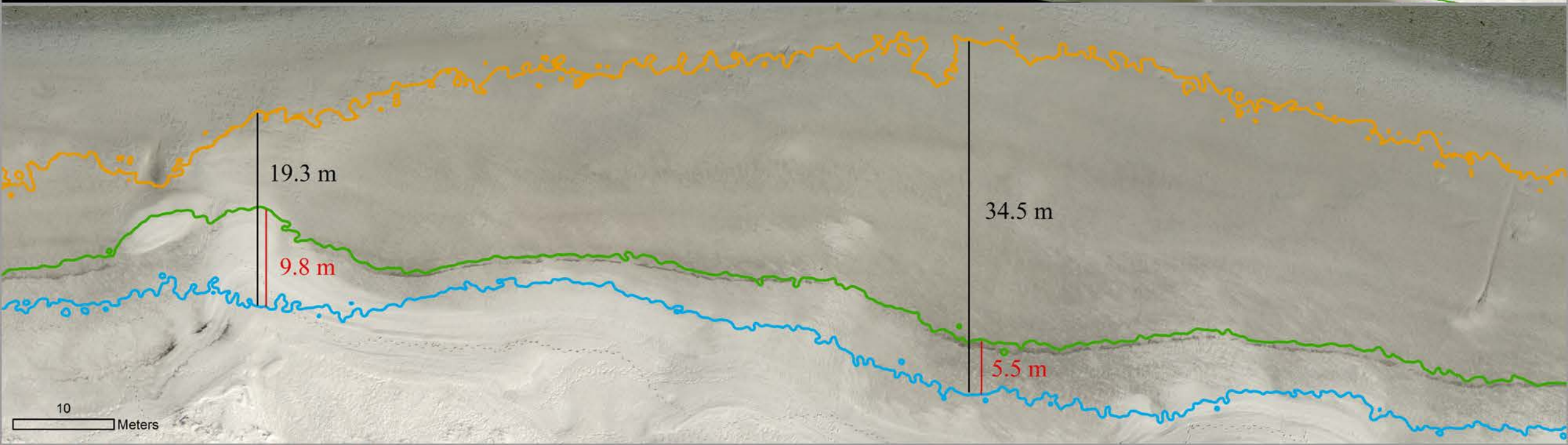
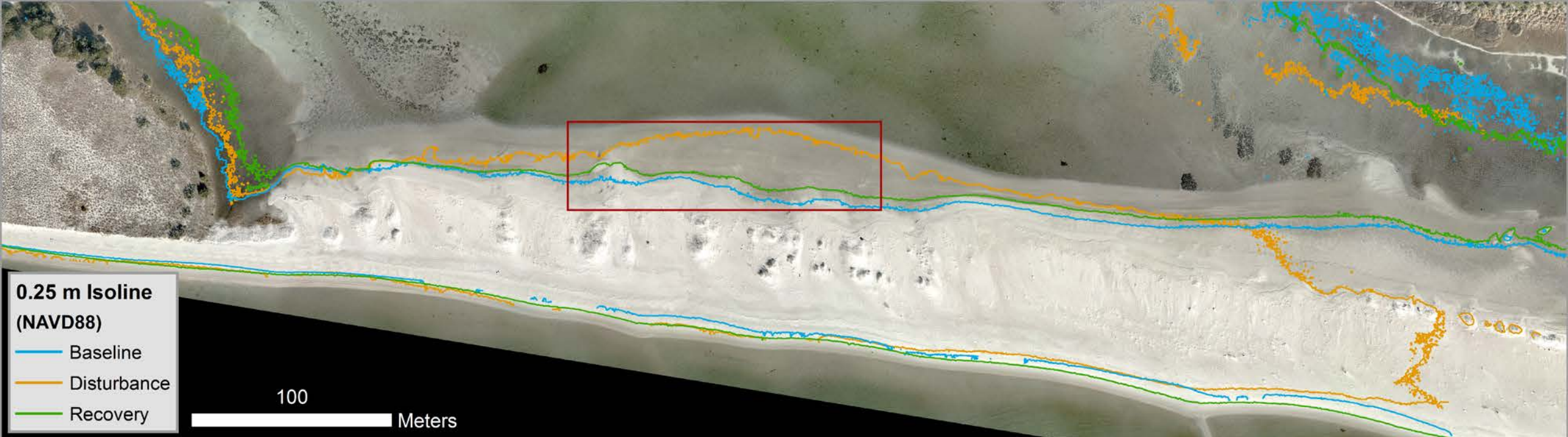
David W. Johnston
Duke University Marine Laboratory



On-Demand
Remote Sensing

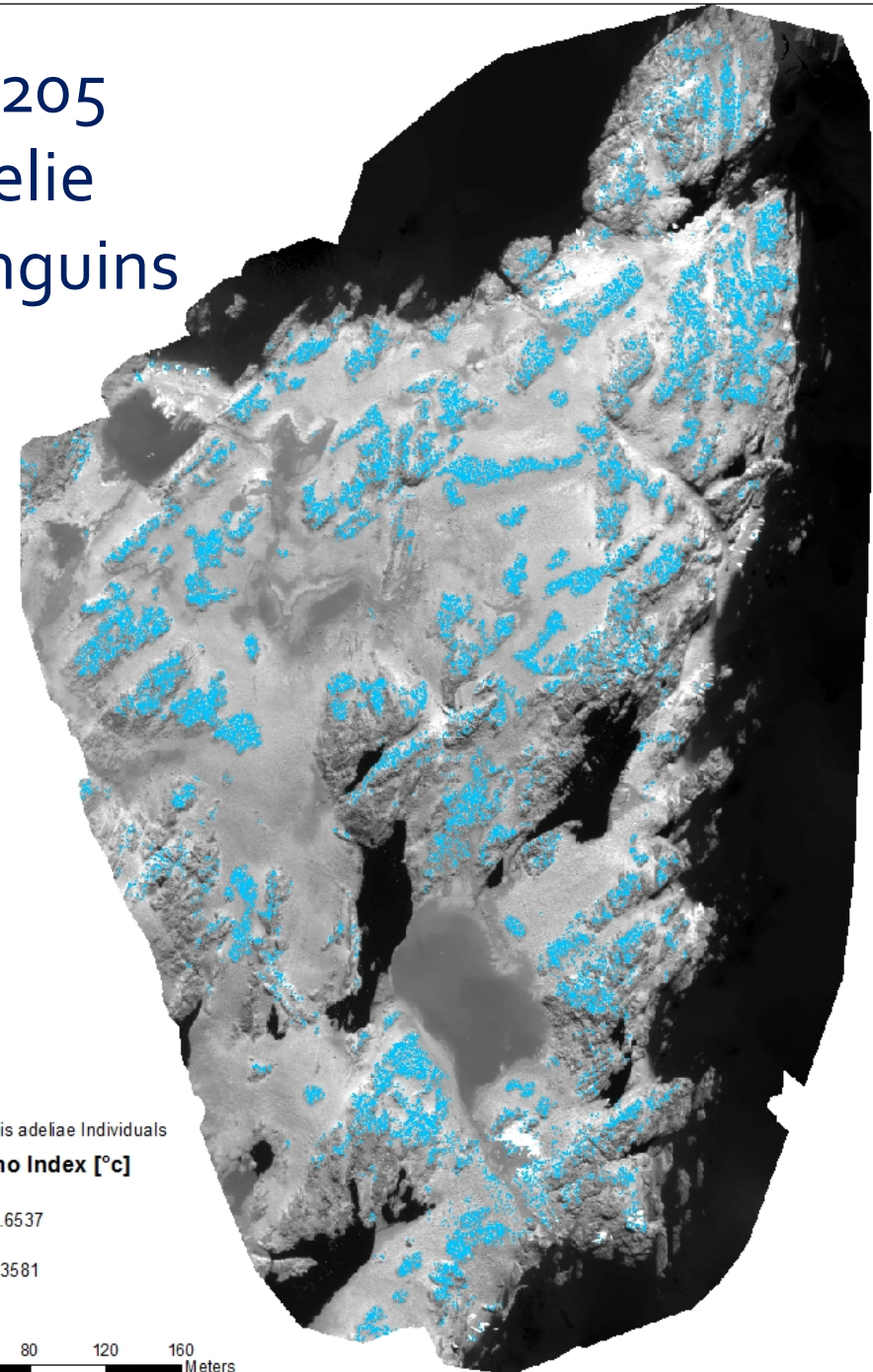
Novel Methods &
New Observations

Safer, Cheaper,
Better Data






60,205
Adelie
Penguins



Legend

 Pygoscelis adeliae Individuals

Avian Thermo Index [°C]

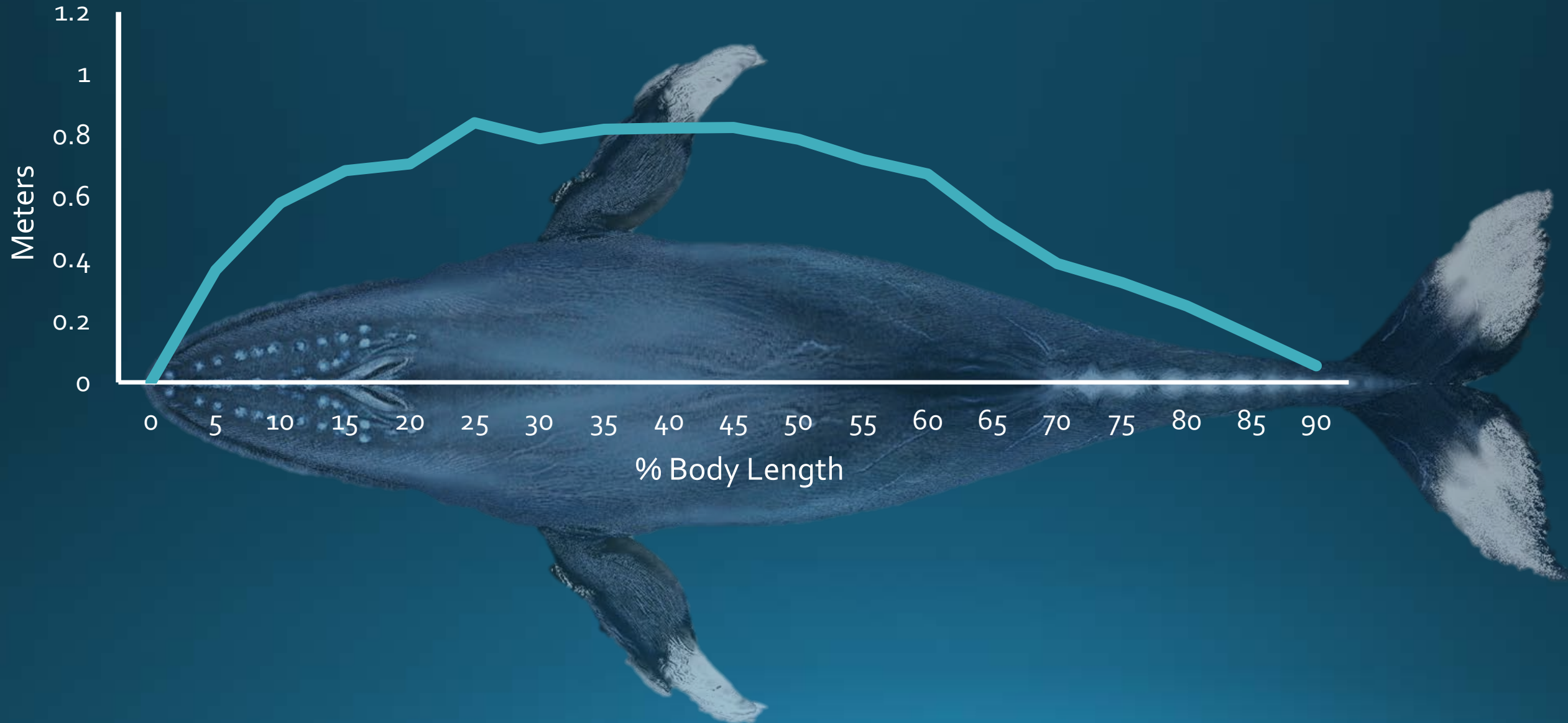
Value

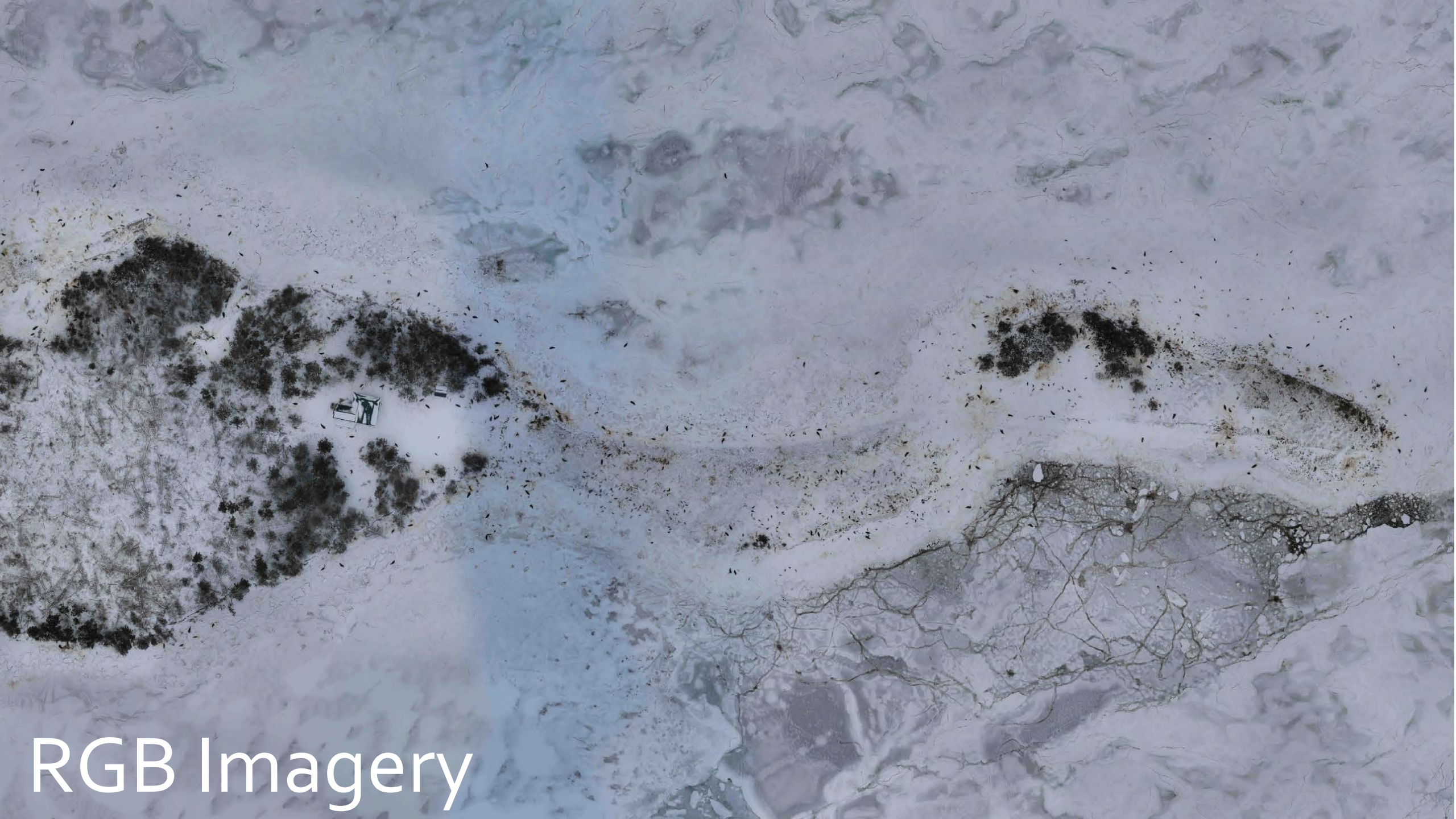
- High : 33.6537

- Low : 1.33581

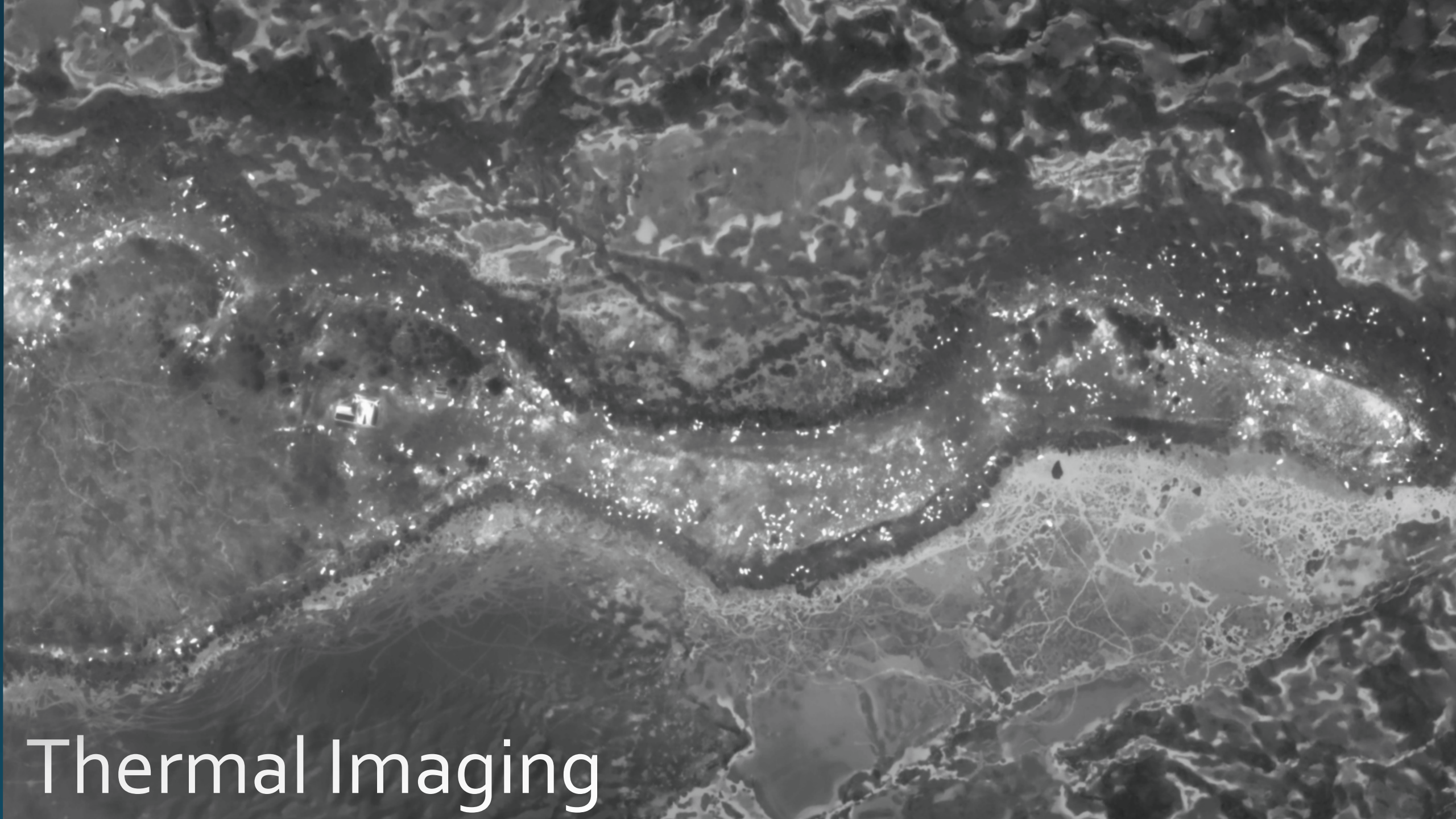
0 20 40 80 120 160
Meters

Average difference between mother and calf humpback whales





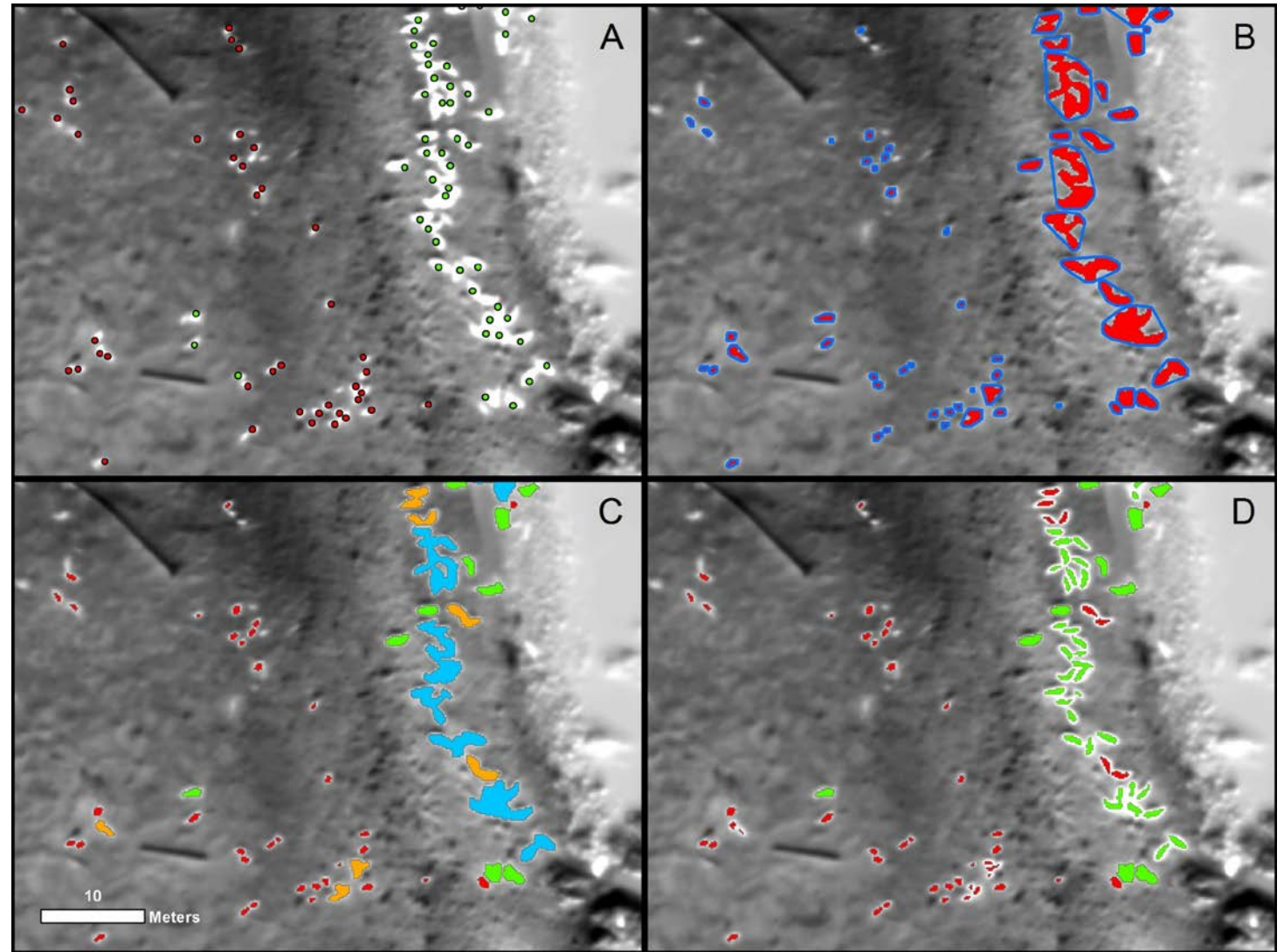
RGB Imagery

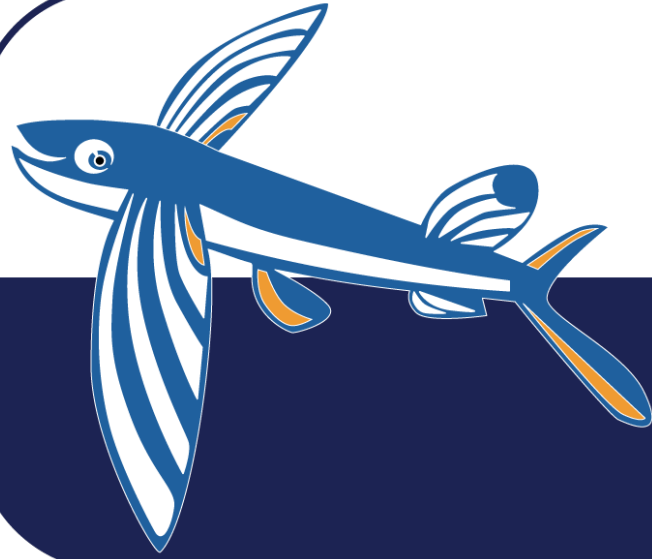


Thermal Imaging

OPEN

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Marine Robotics & Remote Sensing

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