

Lasers, camera, action... Video capture techniques to build streambed sediment profiles

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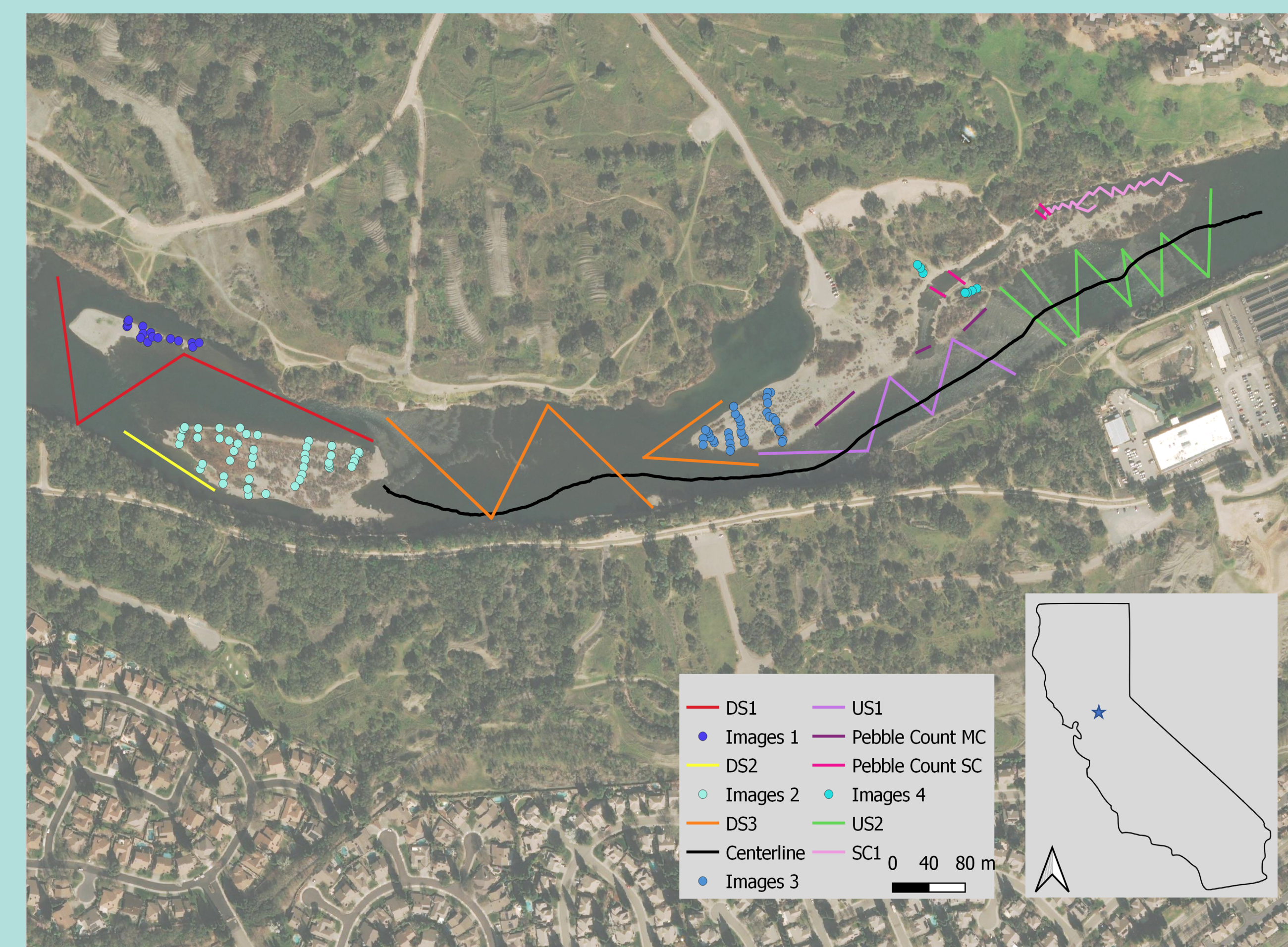
Video is the Future

- Automated capture, processing, and analysis
- Sample areas that are otherwise inaccessible
- Collect more data with less effort
- “Revisit” sites without additional field efforts

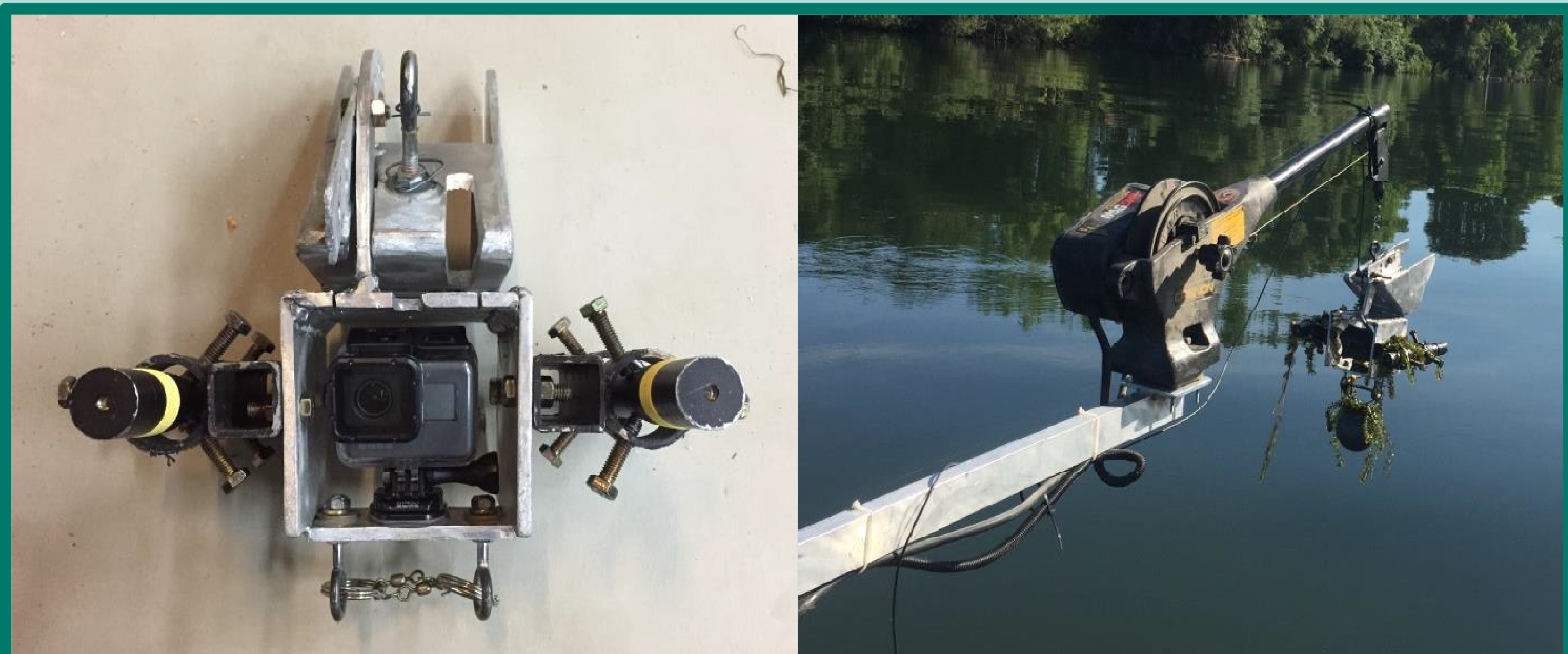


Video sampling
allows better
sampling design
for less effort

Study Location



Field Collection



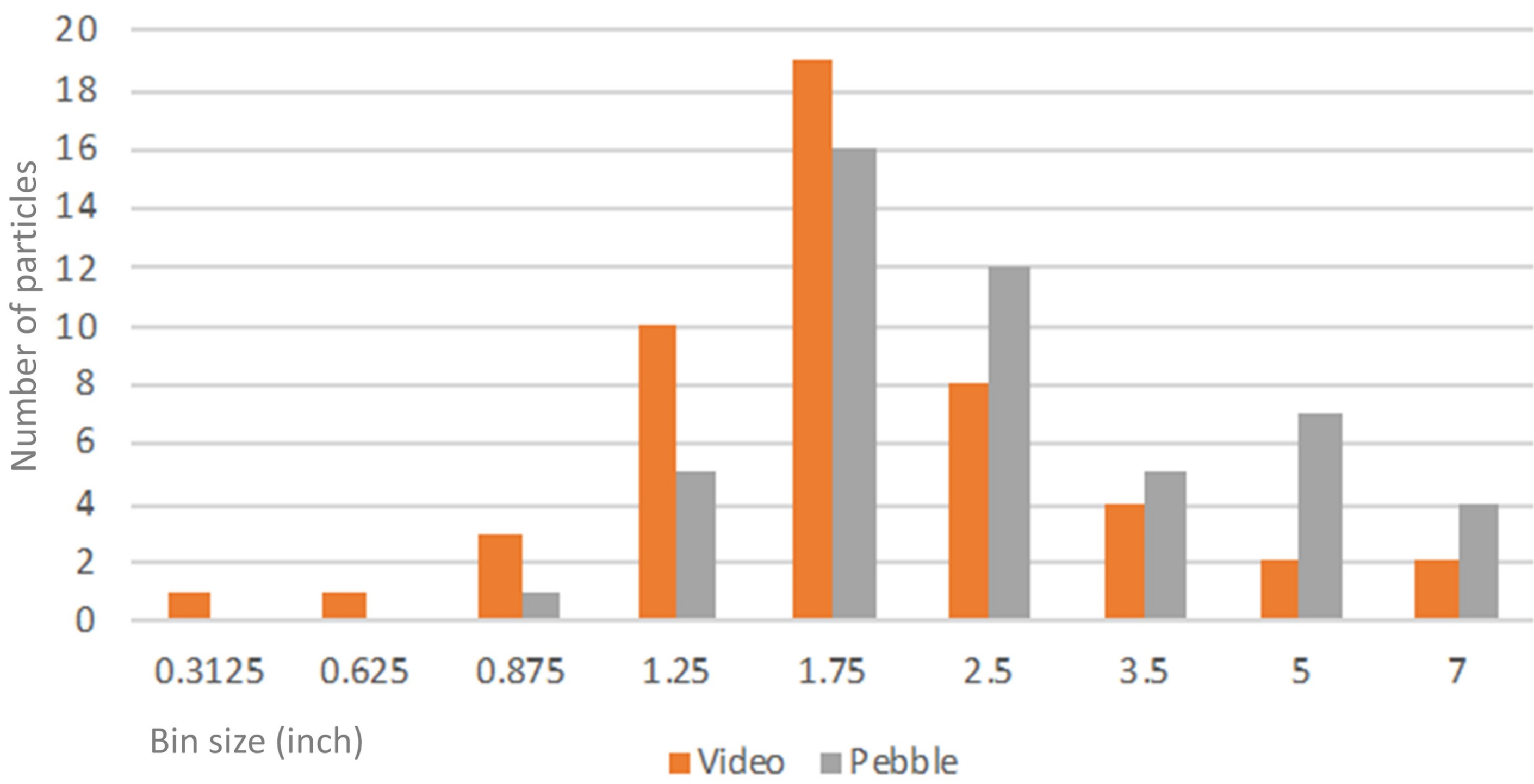
Video vs Pebble Counts

	Direct comparison	Random comparison
Pebble count	1.79 inch	2.91 inch*
Video	1.68 inch	2.15 inch*

* Sig difference (t-stat -8.175; df 49; p <0.01)

Pebble count surveys overestimate size due to selection bias and video underestimates measurement size so we argue the methods are comparable

Random pebble and video



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Scan for more
information and
additional CFS
presentations.
www.fishsciences.net

