

Validating Surface Currents at ORE Sites (V-SCORES)







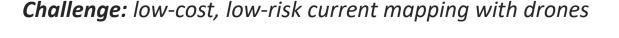












Objectives:

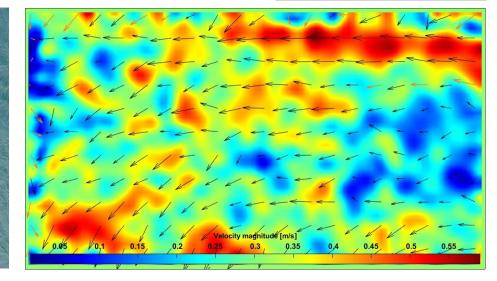
- **Validation** against ADCP, ADV, drifters ...
- **Suitability** of different drones
- **Demonstration** at contrasting sites
- **Translation** of surface to water-column currents





Approach:

- Multi-rotor UAVs collect downward video
- Surface particle image velocimetry (PIV)
- Extract currents









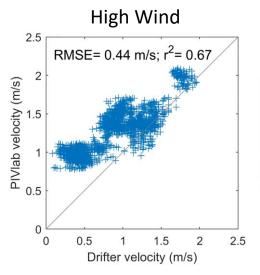


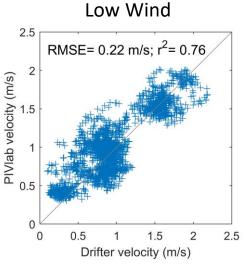












-5

-10

-15

Depth (m) -20

-30

-35

-41

10

ADCP raw data on drone track PF

40

Time(secs) from 02-Jul-2021 14:39:55

50

Validating Surface Currents at ORE Sites (V-SCORES)

