



# ARHEA

## Advanced Drifter GPS Oceanography Coverage Area



### Description

ARHEA, the Advanced Drifter GPS Oceanography Coverage Area, is a cutting-edge oceanographic parameter measurement instrument designed to revolutionize the way we understand and explore our vast oceans. Equipped with diving capabilities and high-quality data acquisition features, ARHEA enables long-term remote observation of the water column for various scientific, academic, military, and commercial applications.

### Features

- 1. Diving Capabilities:** ARHEA is capable of diving to various depths of the water column, allowing for comprehensive data collection at different layers of the ocean.
- 2. Propulsion System:** The instrument comes equipped with advanced thrusters, providing precise control over its depth and movement, enabling smooth navigation through the water.
- 3. Obstacle Avoidance:** ARHEA is equipped with a sonar altimeter that ensures obstacle avoidance, enhancing the safety of the instrument during its dive missions.
- 4. High-Quality Data Acquisition:** ARHEA offers accurate measurements of key oceanographic parameters, including turbidity, pH, temperature, dissolved oxygen (DO), conductivity, and ocean depth.
- 5. Long-Term Observations:** With the ability to observe the water column remotely for extended periods, ARHEA facilitates continuous data collection, providing invaluable insights into ocean behavior and changes over time.

### Specification

#### Dimension

Length	1 50 cm
Diameter	30 cm
Weight	Apx. 16 Kg
Depth Operation	up to 100 m

#### Energy

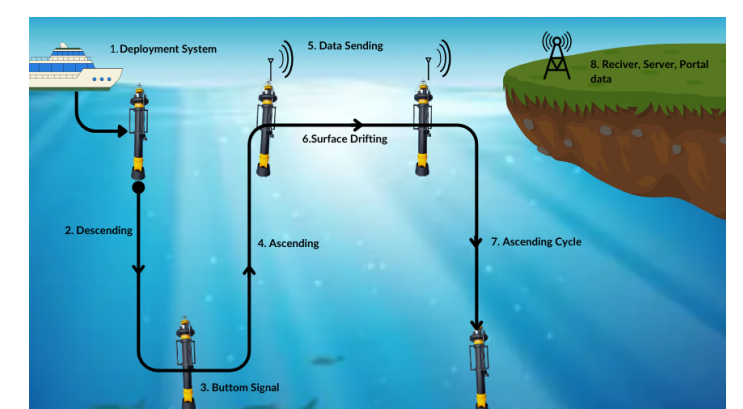
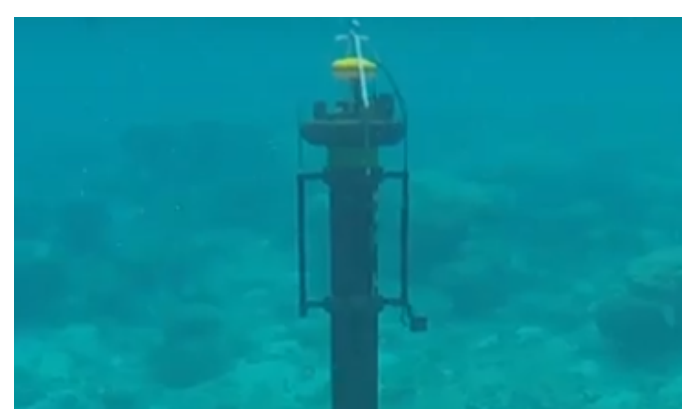
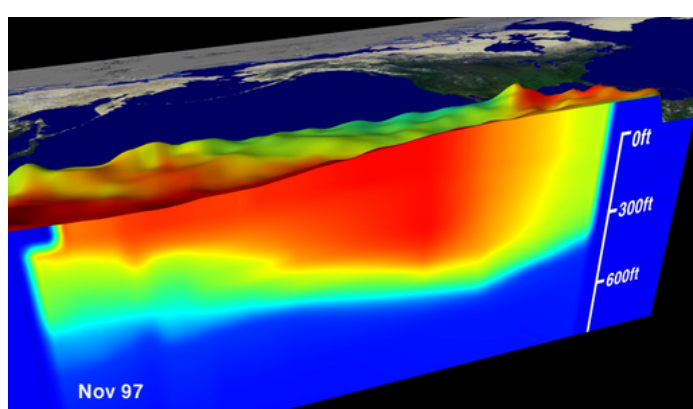
Battery	576 Wh Lithium Ion
Battery Life	20 Day (Normal Mode)

#### Communication

433Mhz Long Range Radio Telemetry

#### Payloads

Turbidity
pH
Dissolved Oxygen
Temperature
Conductivity
Sonar Altimeter
Depth



#### PT ROBO MARINE INDONESIA

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EXPLORE DEEPER!



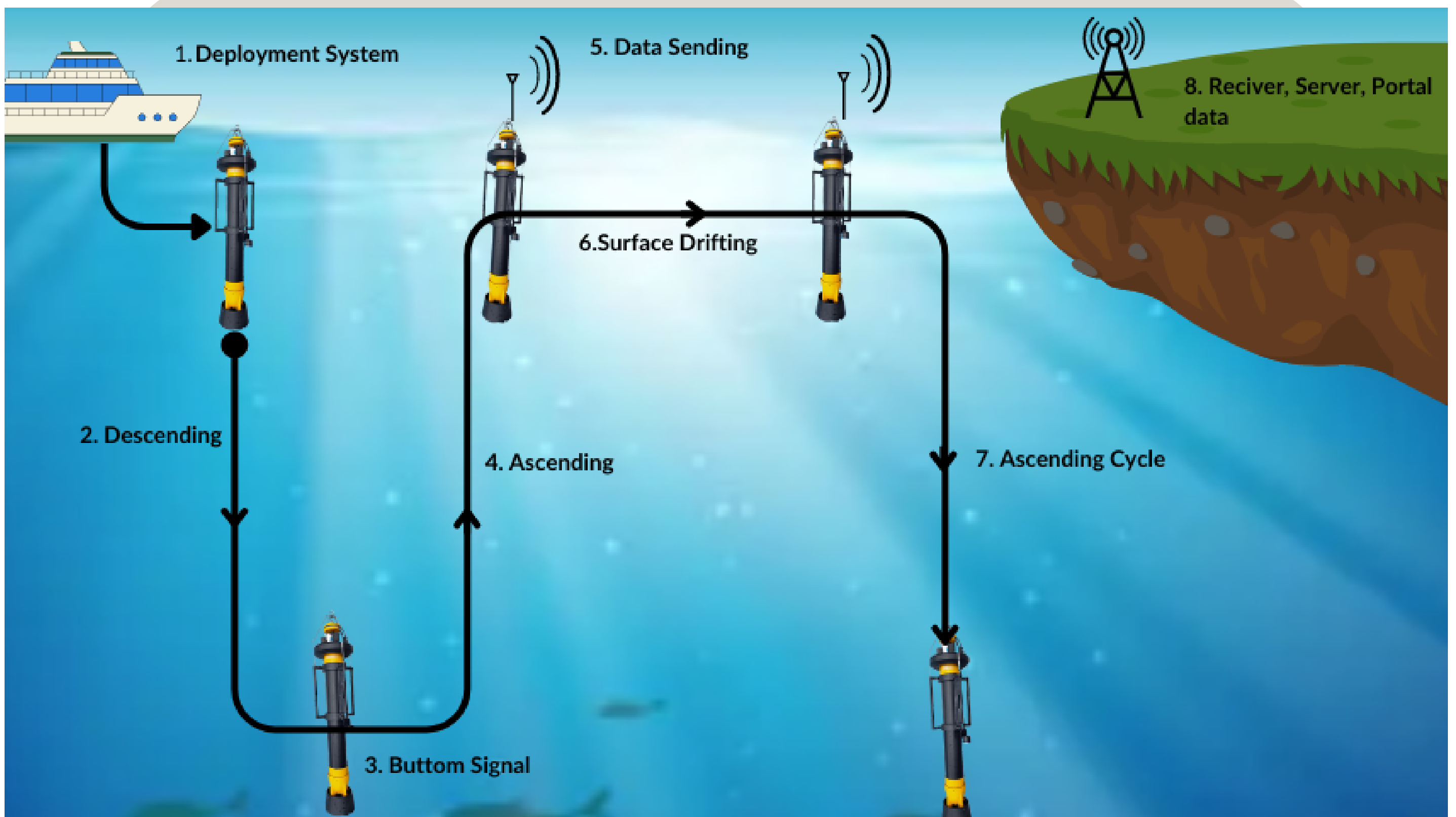
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### Application

- 1. Scientific Research:** ARHEA empowers scientists to gather vital oceanographic data, contributing to a deeper understanding of marine ecosystems, climate patterns, and ocean health.
- 2. Academic Studies:** Educational institutions can utilize ARHEA to conduct hands-on experiments, engaging students in real-world oceanographic research.
- 3. Military and Defense:** ARHEA's capabilities can be harnessed for naval research, underwater reconnaissance, and environmental monitoring for military and defense purposes.
- 4. Commercial Applications:** Industries such as fisheries, aquaculture, offshore energy, and environmental consulting can leverage ARHEA's data to optimize operations and ensure sustainable practices.



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