

# Echologger AA400

## Precision Autonomous Altimeter

by EofE Ultrasonics Co., Ltd.



# Features

Fully Self-contained – No cables, No external power needed

High-speed Bluetooth Communication

Low Power Consumption for long term monitoring with 3x AA Alkaline batteries

Compact and light

Unique in the market

Inexpensive

User-friendly GUI for versatile parameter settings

- Adjustable sound speed

- High ping rate up to 10Hz

# Applications

Sediment Monitoring  
Seabed/Riverbed Monitoring  
Tide/Wave Monitoring  
Scour Monitoring

# Specification

<b>Acoustic Frequency</b>	<b>450 KHz</b>
<b>Beam width</b>	<b>5° Conical (-3dB)</b>
<b>Transmit Pulse Width</b>	<b>10μsec ~ 100μsec (10μsec step)</b>
<b>Ranges</b>	<b>0.15 m ~ 50 m</b>
<b>Housing Material</b>	<b>Acetal, Poly Carbonate, Al, SUS</b>
<b>Operating Depth</b>	<b>100m (optional 1000m, 3000m, 6000m)</b>
<b>Repetition (Ping) Rate</b>	<b>10 Hz max</b>
<b>Sampling Rate</b>	<b>100 kHz</b>
<b>Altimeter Range Resolution</b>	<b>1.0 mm</b>
<b>Temperature sensor Resolution</b>	<b>0.1°C</b>
<b>Temperature sensor Accuracy</b>	<b>0.5°C (-10°C ~ +50°C)</b>
<b>Communication</b>	<b>Bluetooth (v2.1), 115kbaud</b>
<b>Data Storage</b>	<b>Non volatile FLASH (2MB)</b>
<b>Data Output Format</b>	<b>ASCII</b>
<b>Power Supply</b>	<b>3XAA Alkaline batteries</b>
<b>Dimensions</b>	<b>D56 X L80 (w/o connector)</b>
<b>Weight</b>	<b>478g (air) / 30g (water)</b>

# Product Images



Standard (100m)



Right angled (1,000m)

# Product Images



1000m depth rate (Polycarbonate)



3000m depth rate (Aluminum)

# Product Images

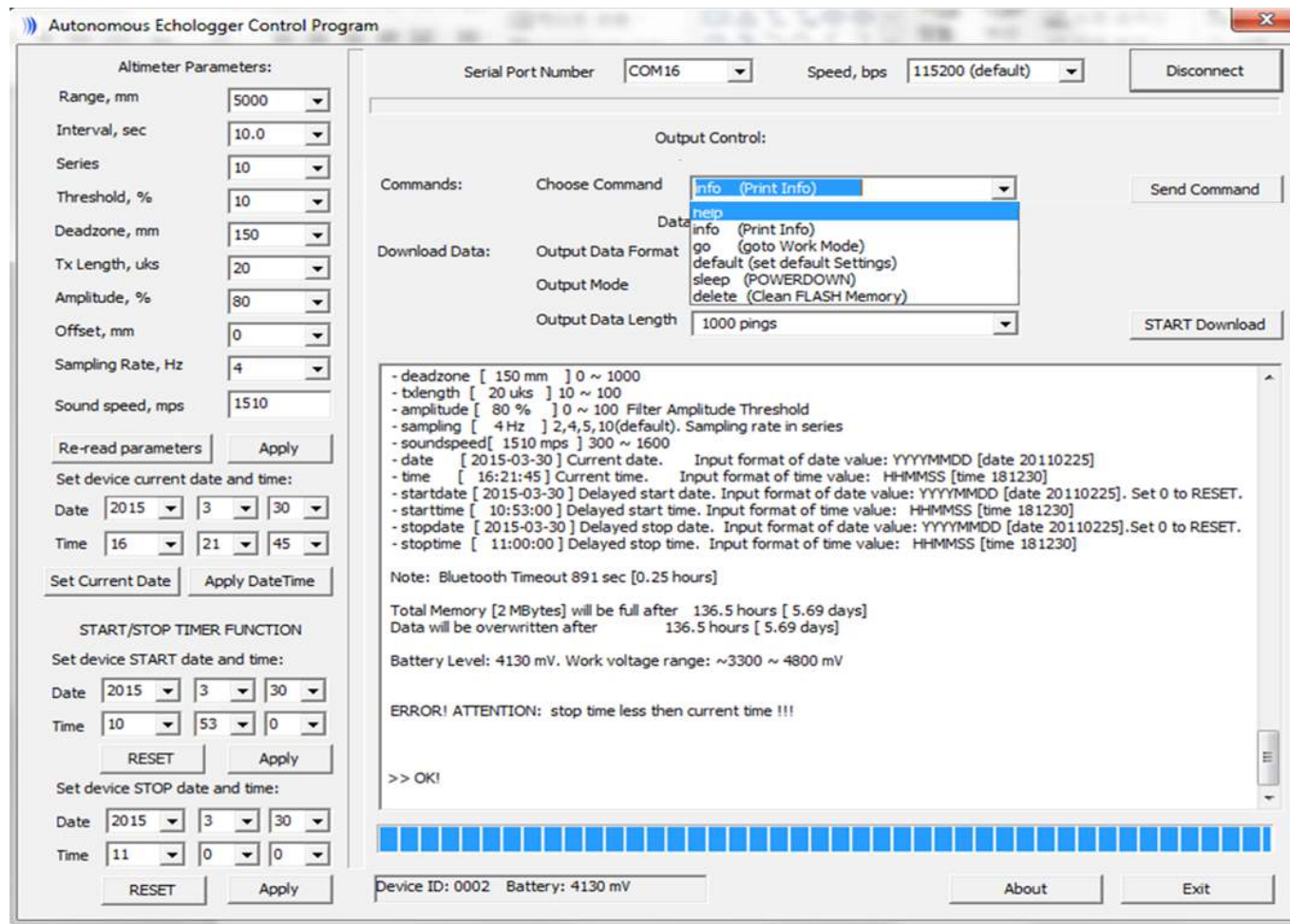


3,000m depth rate (Titanium)



6000m depth rate

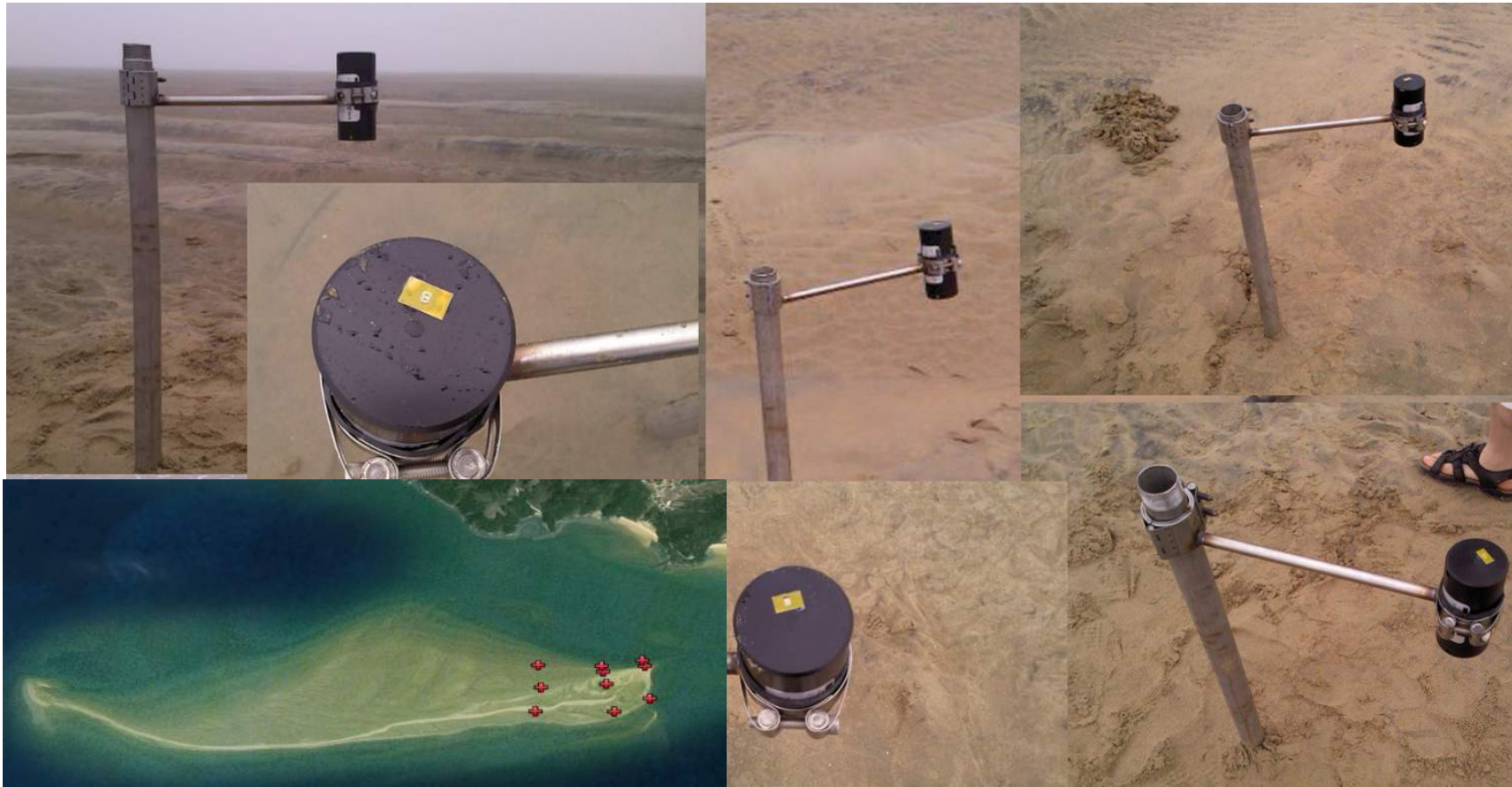
# Product Images (user friendly GUI software)





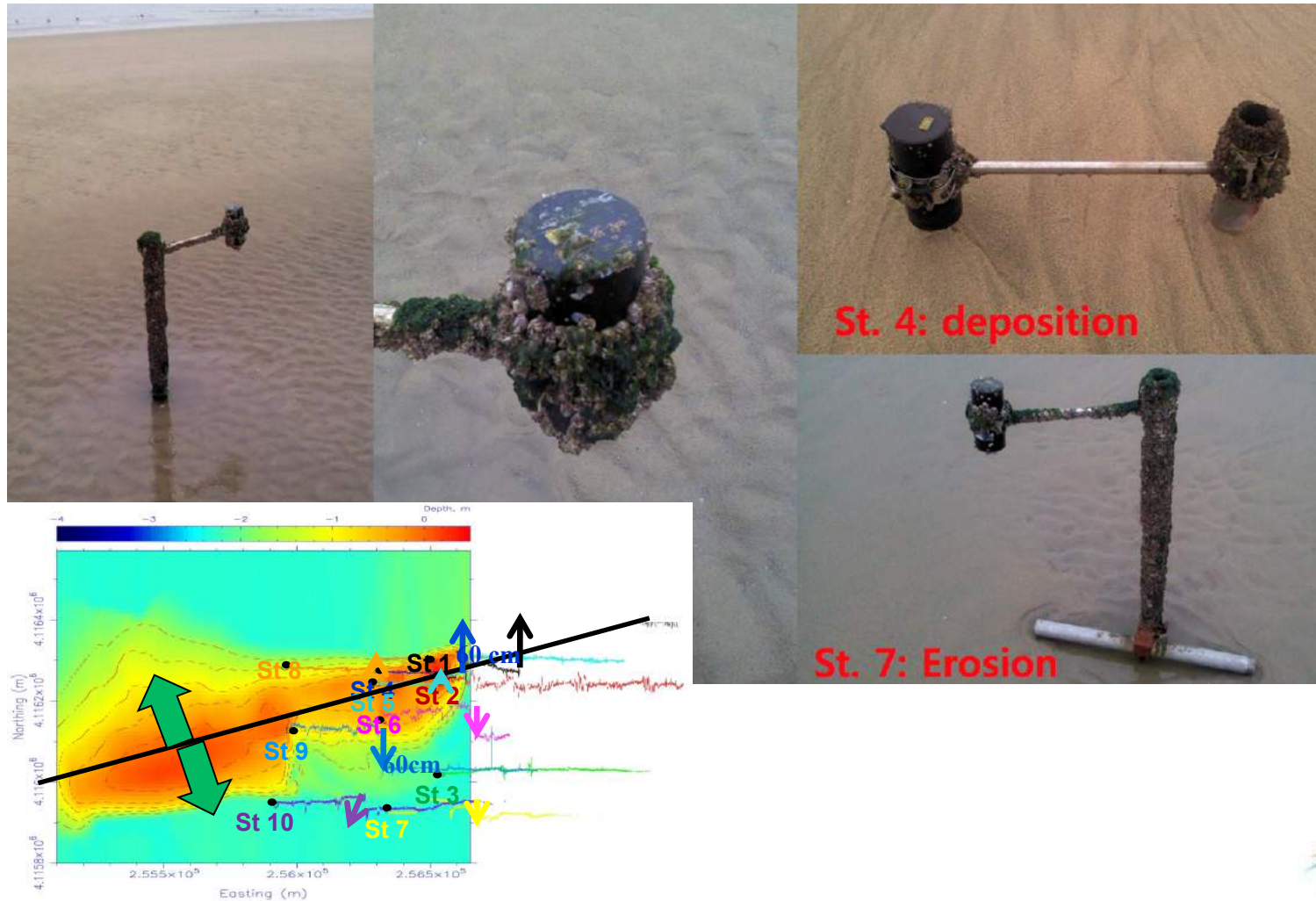
# Product Images (courtesy of Inha Univ., Korea)

Devices deployed on a shoal (before measurement)



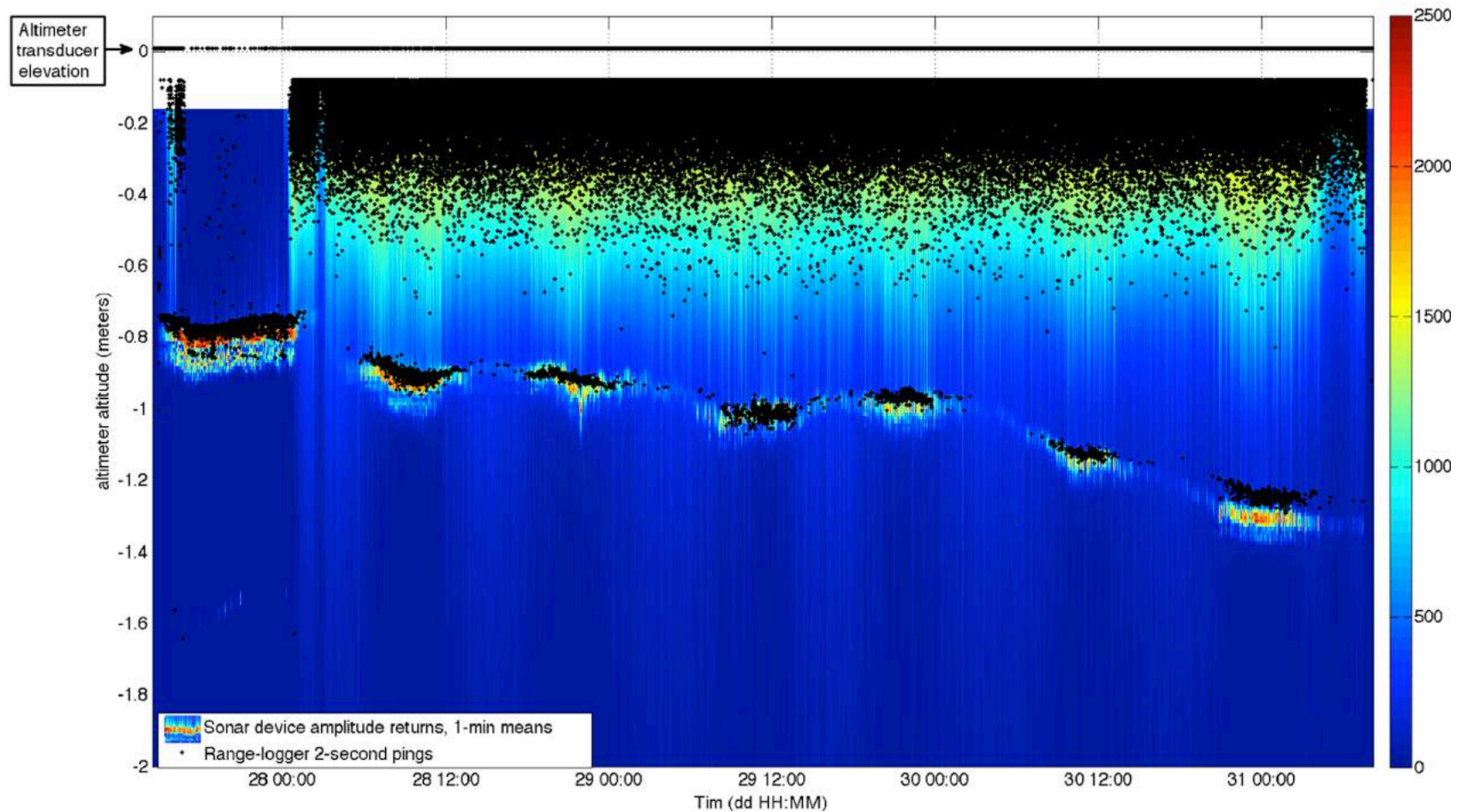
# Product Images (courtesy of Inha Univ., Korea)

3 months after deployment



# Product Images (courtesy of WHOI)

Sediment monitoring at a surf zone



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Thank you!