



# From Disruption to Destruction Assessing the Impact of High-Power Microwaves on Unmanned Aerial Vehicles

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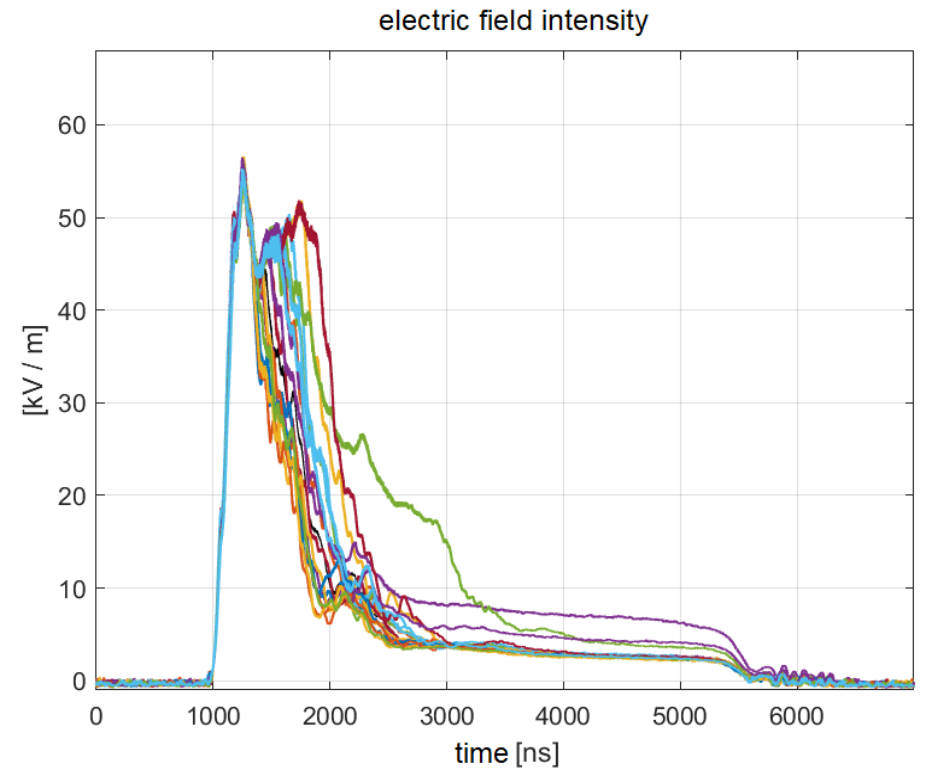
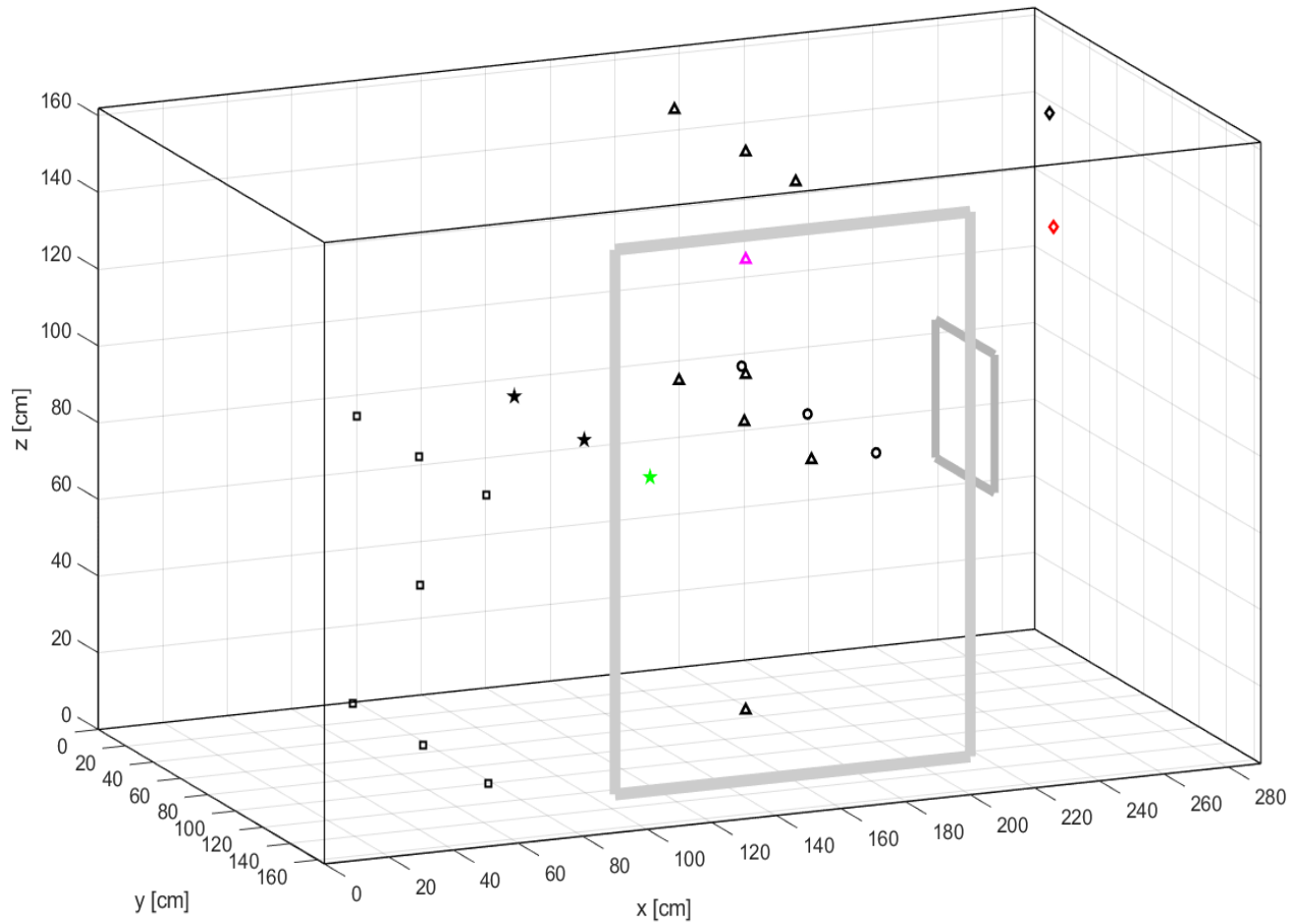
# Presentation scope

- Experiment setup
  - *Research Station at AMW*
  - *Sea-Based Research Station*
  - *Land-Based Research in Ustka*
  - *Land-Based Research in Nowa Dęba*
- Conclusions

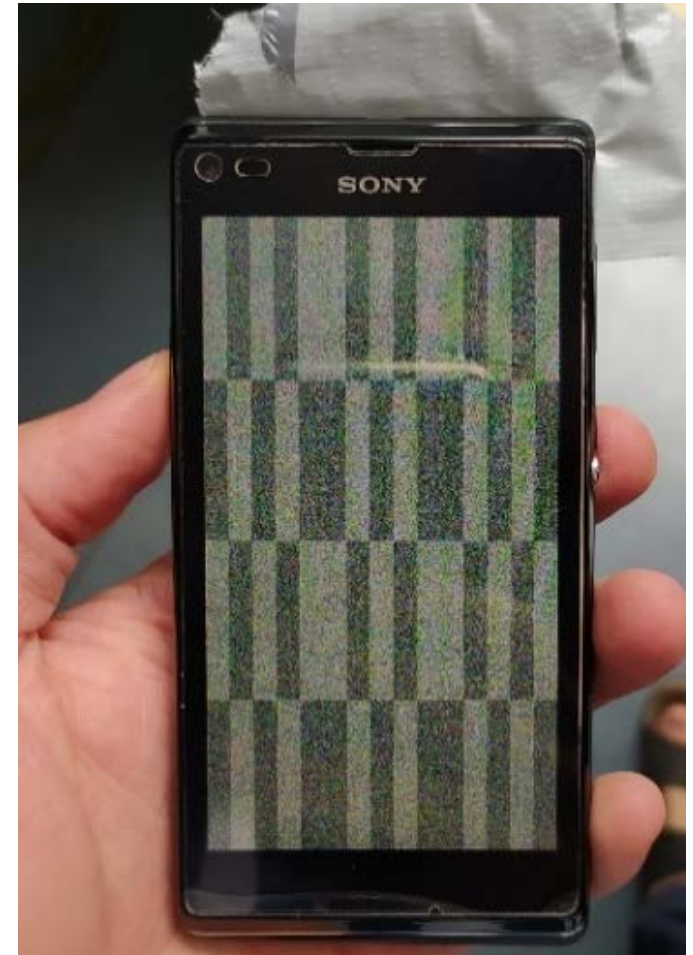
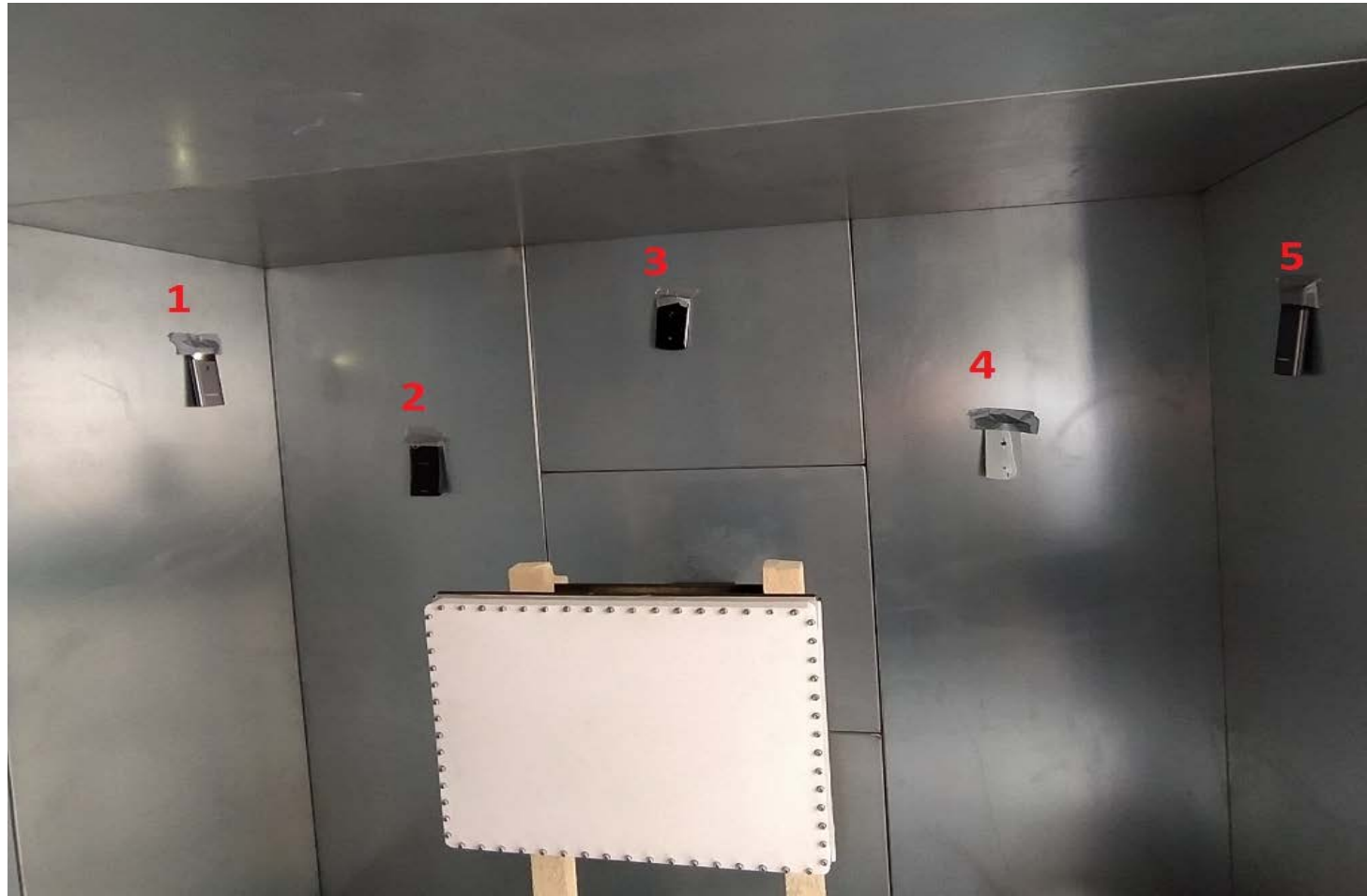
## Experiment setup - *Research Station at AMW*



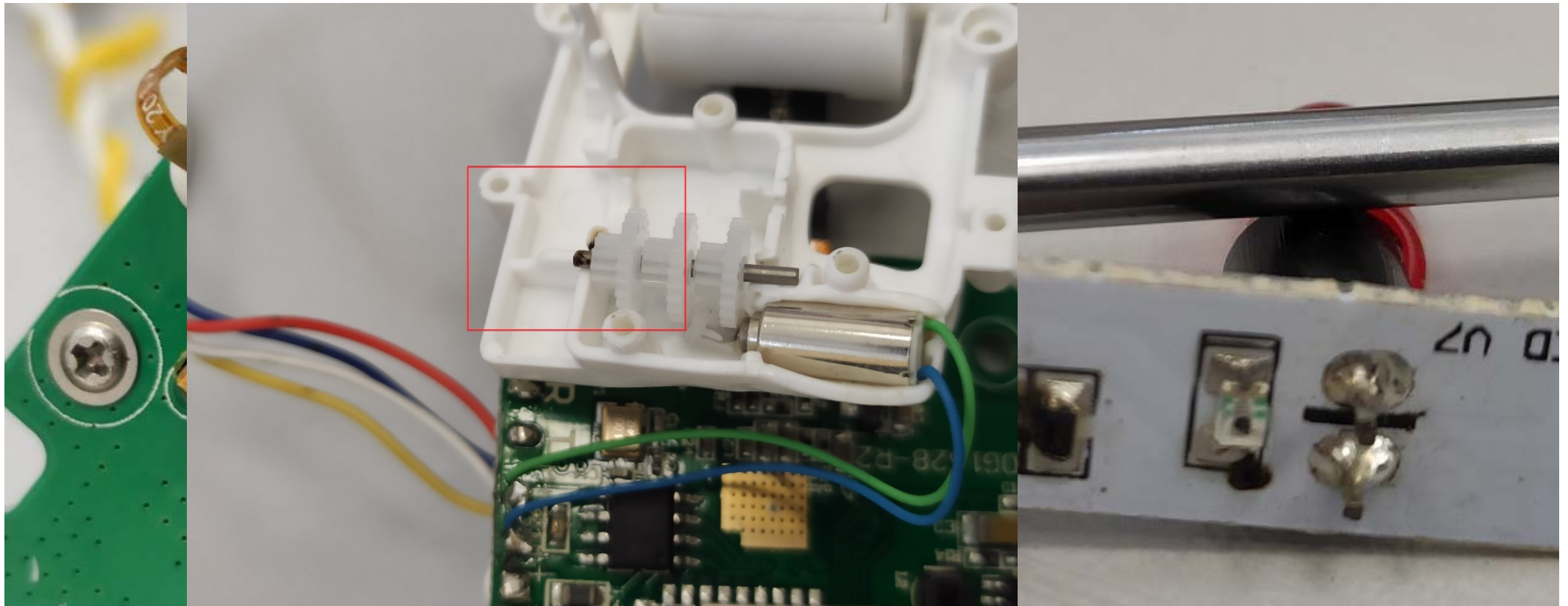
# Experiment setup - *Research Station at AMW*



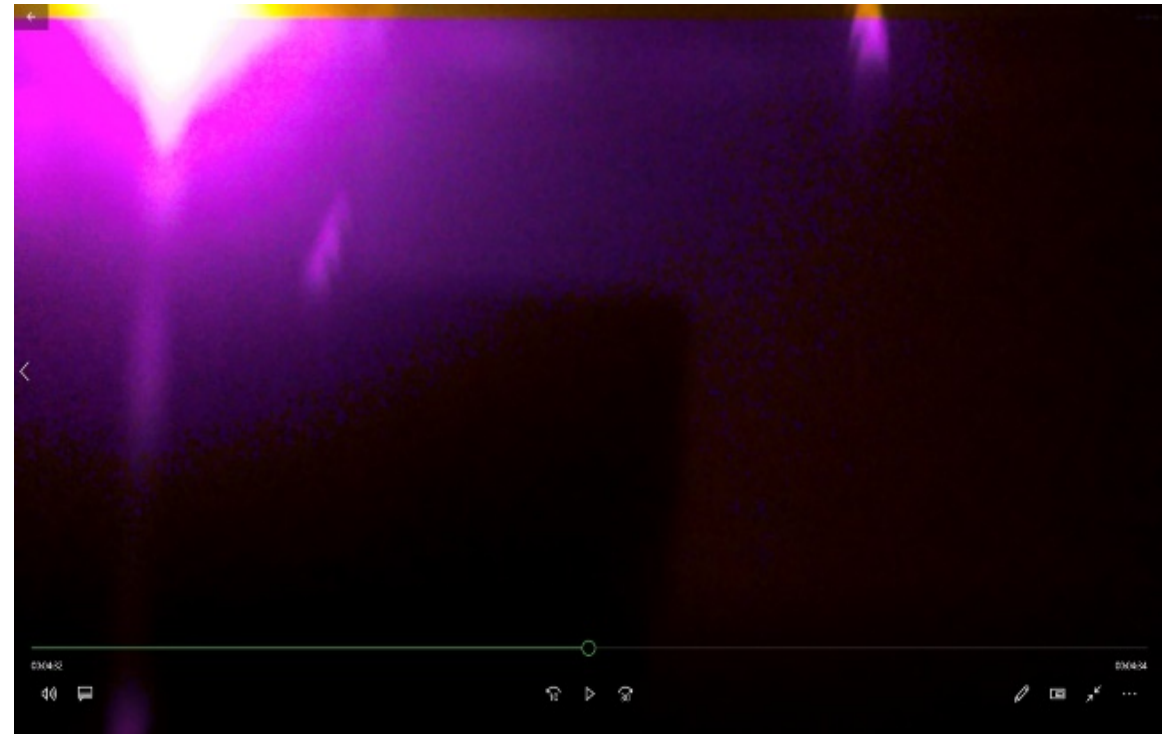
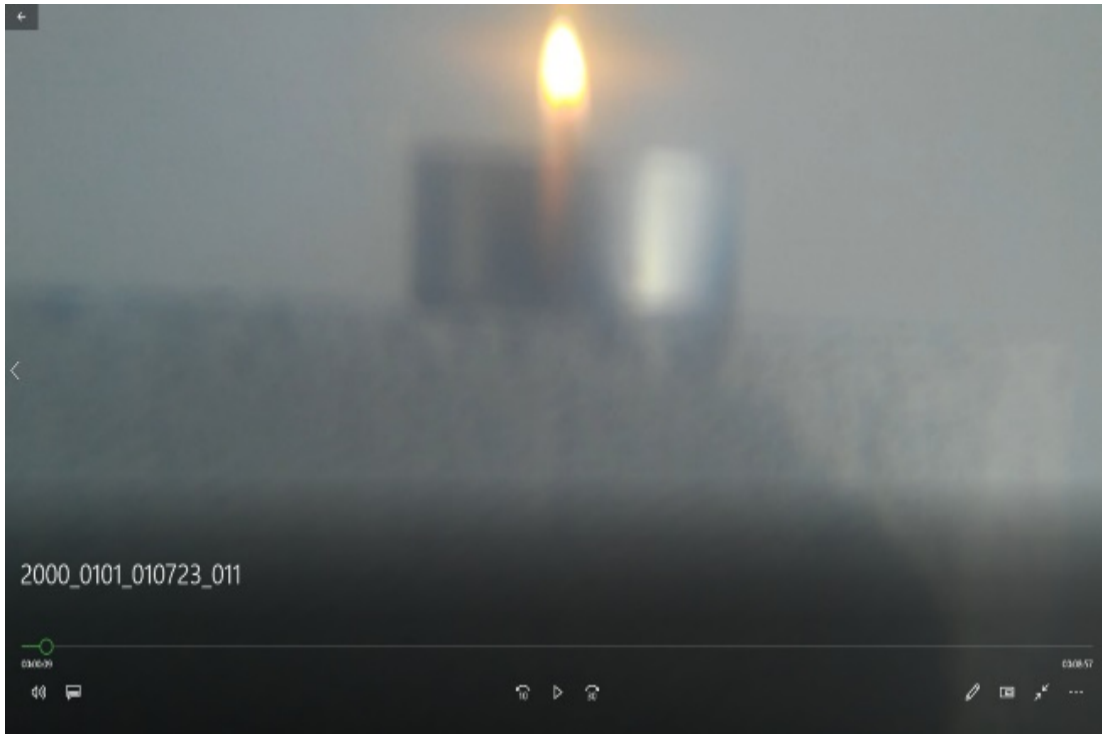
## Experiment setup - *Research Station at AMW*



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## Experiment setup - *Sea-Based Research Station*



- Transmitter type: Microwave impulse generator grounded on a magnetron
- Generated frequency: 2.98 GHz
- Pulse power: 3 MW
- Pulse duration: 0.5 – 3  $\mu$ s
- Pulse repetition period: Ranging from a single pulse to 4 ms





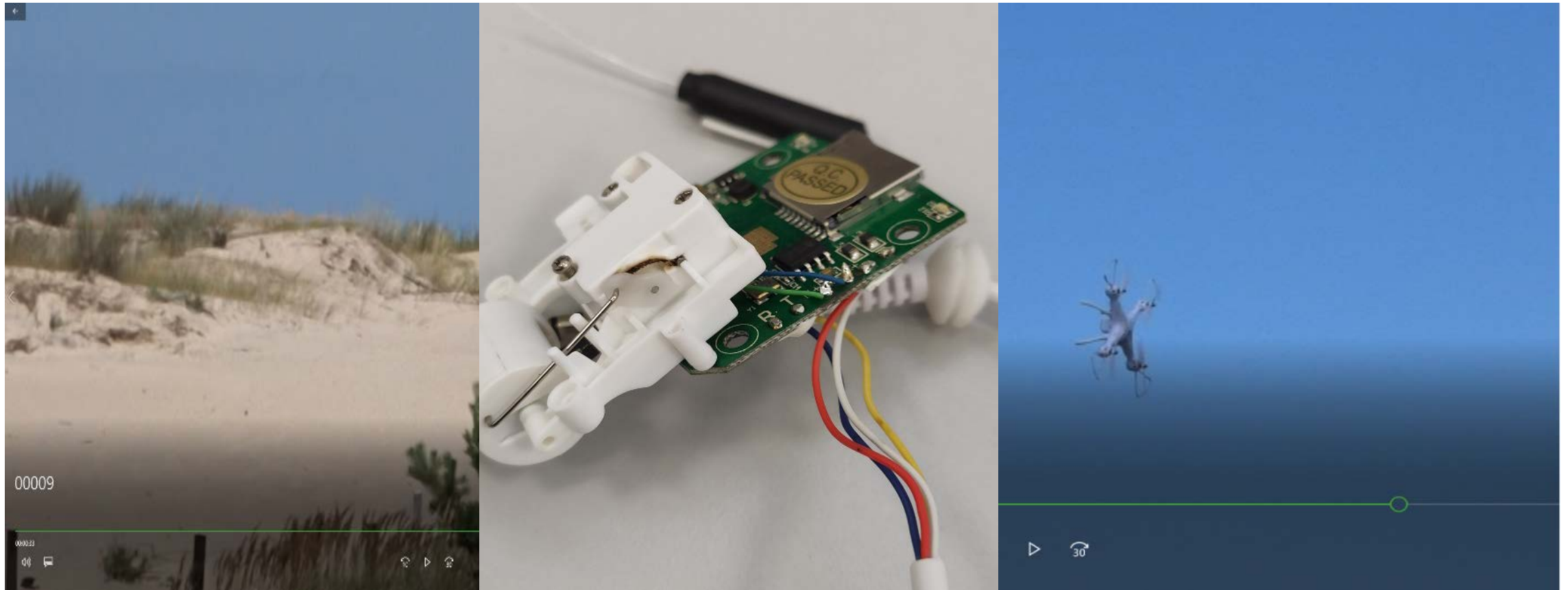
# Experiment setup - *Sea-Based Research Station*



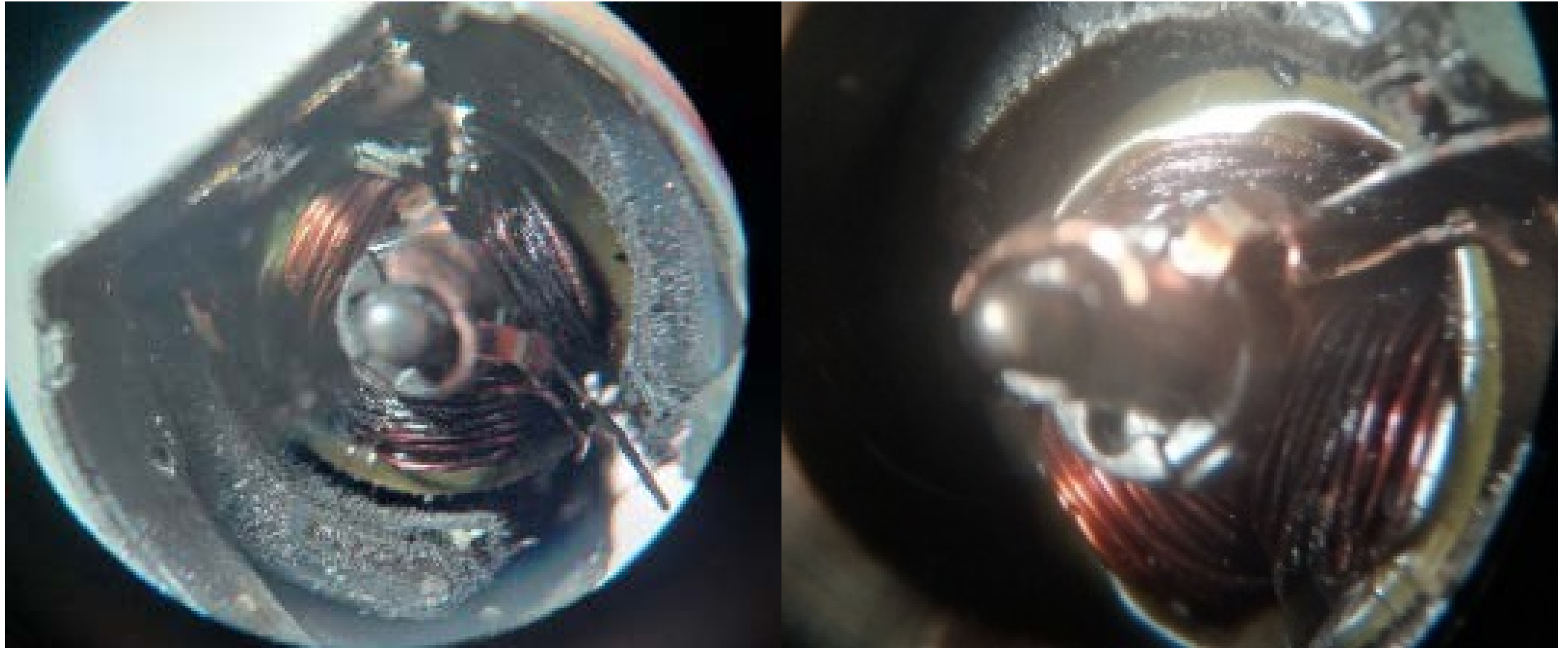
## Experiment setup - *Sea-Based Research Station*



## Experiment setup - *Land-Based Research in Ustka*



Experiment setup - *Land-Based Research in Nowa Dęba*



# Conclusions

