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# Swansea University Testing at META

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## Testing at META



- Contents:
  - Pre-deployment
    - Help with permissions, marine licenses etc.
    - Advice on methodology, deployment location
    - Advice on contingency planning
    - Communication with Pembroke dock/Notice to mariners
  - Phase 1 Test Area: Criterion Jetty
    - Process of deployment on the day
    - Accessible/close to shore
    - Realistic conditions but not too exposed
    - Key for low risk development
      - Scale testing
      - Design feedback
      - Working alongside marine operators
    - Lessons learnt feeding into Phase 2
  - Phase 2 Test Area: Warrior Way
    - Significant tidal currents

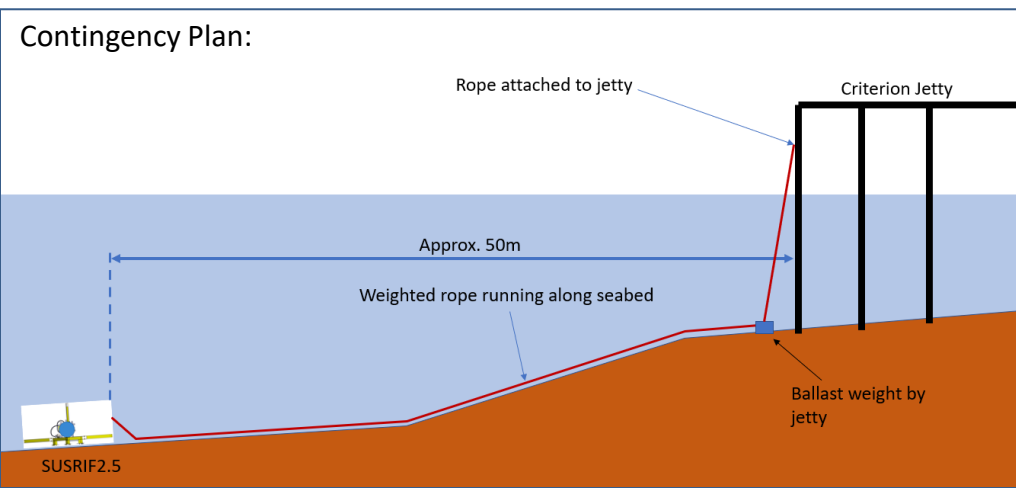


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## Testing at META



- Criterion Jetty test site:
  - Launched from public slipway
    - ~200m from test site
  - Local marine operator
    - RIB used for deployment and retrieval
  - Contingency Planning
    - Access to safety line in case of Re-float system failure





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- Deployment:
  - Slack water – fair conditions
  - GPS to mark location
  - 2hr operations
  - Raft/cADCP stability
  - Recovered and returned to Lab for inspection





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## Testing at META



- Lessons Learnt:
  - Criterion Jetty: Ideal conditions for scale testing
  - Working alongside marine operators early on in development
    - Familiarisation
    - Drawn on operational expertise
    - Practicalities of towing and positioning
  - Key for low risk development
    - Potential issues identified at scale
      - Raft stability
      - Raft-cADCP interaction
    - Working alongside marine operators
    - Modifications to full scale design/methodology prior to build



Slipway Launch: Raft stability



Scuba Tank Corrosion



Sealing ring Corrosion



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- Phase 2: Warrior Way