# **Test Dataset: 101AA00DS0020 – Dataset 20 (FINAL 20220902)**

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( 59 feature instances)

Dataset Specifications

See document located in github [S-101-Test-Datasets/S-101 Test Dataset Specification 20220725 1.0 FINAL.docx at main · iho-ohi/S-101-Test-Datasets (github.com)](https://github.com/iho-ohi/S-101-Test-Datasets/blob/main/dev/docs/S-101%20Test%20Dataset%20Specification%2020220725%201.0%20FINAL.docx)

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| **Reference** | 20.1 | | |  |
| **Description** | | Buoy Lateral  These features detailed below should be duplicated in two areas one containing IALA A and the other IALA B features a corresponding system of navigational marks feature must be used. In both areas the features should be arranged to reflect a single channel with a fairway branching off to the east. | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Buoy Lateral (Point)    1. buoy shape – 2 (can)    2. category of lateral mark – 1 (port-hand lateral mark)    3. colour – 3 (red) 2. Buoy Lateral (Point)    1. buoy shape – 4 (pillar)    2. category of lateral mark – 4 (preferred channel to port lateral mark)    3. colour – 3 (red), 4 (green), 3 (red)    4. colour pattern – 1 (horizontal stripes) 3. Buoy Lateral (Point)    1. buoy shape – 2 (can)    2. category of lateral mark – 1 (port-hand lateral mark)    3. colour – 3 (red)    4. topmark       1. colour – 3 (red)       2. topmark/daymark shape – 19 (square) 4. Buoy Lateral (Point)    1. buoy shape – 1 (conical)    2. category of lateral mark – 2 (starboard-hand lateral mark)    3. colour – 4 (green)    4. topmark       1. colour – 4 –(green)       2. topmark/daymark shape – 1 (cone (point up)) 5. Buoy Lateral (Point)    1. buoy shape – 1 (conical)    2. category of lateral mark – 3 (preferred channel to starboard lateral mark)    3. colour – 4 (green), 3 (red), 4 (green)    4. colour pattern – 1 (horizontal stripes)    5. topmark       1. colour – 4 –(green)       2. topmark/daymark shape – 1 (cone (point up)) 6. Buoy Lateral (Point)    1. buoy shape – 1 (conical)    2. category of lateral mark – 2 (starboard-hand lateral mark)    3. colour – 4 (green) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.2 | | |  |
| **Description** | | Buoy Cardinal  Features to be arranged in their respective cardinal sectors forming a diamond. | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Buoy Cardinal (Point)    1. buoy shape – 4 (pillar)    2. category of cardinal mark – 1 (north cardinal mark)    3. colour – 2 (black), 6 (yellow)    4. colour pattern – 1 (horizontal stripes)    5. topmark       1. colour – 2 (black)       2. topmark/daymark shape – 13 (2 cones point upwards) 2. Buoy Cardinal (Point)    1. buoy shape – 4 (pillar)    2. category of cardinal mark – 3 (south cardinal mark)    3. colour –6 (yellow), 2 (black)    4. colour pattern – 1 (horizontal stripes)    5. topmark       1. colour – 2 (black)       2. topmark/daymark shape – 14 (2 cones points downward) 3. Buoy Cardinal (Point)    1. buoy shape – 5 (spar)    2. category of cardinal mark – 2 (east cardinal mark)    3. colour –2 (black), 6 (yellow), 2 (black)    4. colour pattern – 1 (horizontal stripes)    5. topmark       1. colour – 2 (black)       2. topmark/daymark shape – 11 (2 cones base to base) 4. Buoy Cardinal (Point)    1. buoy shape – 5 (spar)    2. category of cardinal mark – 4 (west cardinal mark)    3. colour –6 (yellow), 2 (black), 6 (yellow)    4. colour pattern – 1 (horizontal stripes)    5. topmark       1. colour – 2 (black)       2. topmark/daymark shape – 10 (2 cones point to point) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.3 | | |  |
| **Description** | | Buoy Isolated Danger | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Buoy Isolated Danger (Point)    1. buoy shape – 4 (pillar)    2. colour – 2 (black), 3 (red), 2 (black)    3. colour pattern – 1 (horizontal stripes)    4. topmark       1. colour – 2 (black)       2. topmark/daymark shape - 4 (2 spheres) 2. Buoy Isolated Danger (Point)    1. buoy shape – 5 (spar)    2. colour – 2 (black), 3 (red), 2 (black)    3. colour pattern – 1 (horizontal stripes)    4. topmark       1. colour – 2 (black)       2. topmark/daymark shape - 4 (2 spheres) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.4 | | |  |
| **Description** | | Buoy Safe Water | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Buoy Safe Water (Point)    1. buoy shape – 3 (spherical)    2. colour – 3 (red), 1 (white)    3. colour pattern – 2 (vertical stripes) 2. Buoy Safe Water (Point)    1. colour – 3 (red), 1 (white)    2. colour pattern – 2 (vertical stripes) 3. Buoy Safe Water (Point)    1. buoy shape – 4 (pillar)    2. colour – 3 (red), 1 (white)    3. colour pattern – 2 (vertical stripes)    4. topmark       1. colour - 3 (red)       2. topmark/daymark shape – 3 (sphere) 4. Buoy Safe Water (Point)    1. buoy shape – 7 (superbuoy)    2. colour – 3 (red), 1 (white)    3. colour pattern – 2 (vertical stripes)    4. topmark       1. colour - 3 (red)       2. topmark/daymark shape – 3 (sphere) 5. Buoy Safe Water (Point)    1. buoy shape – 5 (spar)    2. colour – 3 (red), 1 (white)    3. colour pattern – 2 (vertical stripes)    4. topmark       1. colour - 3 (red)       2. topmark/daymark shape – 3 (sphere) 6. Buoy Safe Water (Point)    1. buoy shape – 6 (barrel)    2. colour – 3 (red), 1 (white)    3. colour pattern – 2 (vertical stripes)    4. topmark       1. colour - 3 (red)       2. topmark/daymark shape – 3 (sphere) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.5 | | |  |
| **Description** | | Buoy Special Purpose/General  These features should be arranged as a grid. | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Buoy Special Purpose/General (Point)    1. buoy shape – 7 (superbuoy)    2. category of special purpose mark – 9 (ODAS)    3. colour – 6 (yellow) 2. Buoy Special Purpose/General (Point) 3. buoy shape – 1 (conical) 4. category of special purpose mark – 19 (TSS mark (Traffic Separation Scheme) 5. colour – 6 (yellow) 6. Buoy Special Purpose/General (Point) 7. buoy shape – 4 (pillar) 8. category of special purpose mark – 54 (channel separation mark) 9. colour – 6 (yellow) 10. Buoy Special Purpose/General (Point) 11. buoy shape – 6 (barrel) 12. colour – 6 (yellow) 13. Buoy Special Purpose/General (Point) 14. buoy shape – 2 (can) 15. colour – 6 (yellow) 16. Buoy Special Purpose/General (Point) 17. buoy shape – 7 (superbuoy) 18. category of special purpose mark – 15 (LANBY) 19. colour – 6 (yellow) 20. Buoy Special Purpose/General (Point) 21. buoy shape – 8 (ice buoy) 22. category of special purpose mark – 57 (ice mark) 23. colour – 11 (orange) 24. Buoy Special Purpose/General (Point) 25. buoy shape – 3 (spherical) 26. category of special purpose mark – 51 (works in progress mark) 27. colour – 6 (yellow) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.6 | | |  |
| **Description** | | Buoy New Danger Marking | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Buoy New Danger Marking (Point)    1. buoy shape – 4 (pillar)    2. colour – 5 (blue), 6 (yellow)    3. colour pattern – 2 (vertical stripes)    4. topmark       1. colour – 6 (yellow)       2. topmark/daymark shape – 8 (upright cross) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.7 | | |  |
| **Description** | | Buoy Installation | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Buoy Installation (Point)    1. buoy shape – 7 (superbuoy)    2. colour – 1 (white) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.8 | | |  |
| **Description** | | Beacon Lateral  As for buoy lateral features to be arranged as a channel and duplicated within IALA A and B areas. | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Beacon Lateral (Point)    1. beacon shape – 3 (beacon tower)    2. category of lateral mark – 1 (port-hand lateral mark)    3. colour – 3 (red) 2. Beacon Lateral (Point)    1. Beacon shape – 3 (beacon tower)    2. category of lateral mark – 4 (preferred channel to port lateral mark)    3. colour – 3 (red), 4 (green), 3 (red)    4. colour pattern – 1 (horizontal stripes) 3. Beacon Lateral (Point)    1. beacon shape – 7 (buoyant beacon)    2. category of lateral mark – 1 (port-hand lateral mark)    3. colour – 3 (red)    4. topmark       1. colour – 3 (red)       2. topmark/daymark shape – 19 (square) 4. Beacon Lateral (Point)    1. beacon shape – 3 (beacon tower)    2. category of lateral mark – 2 (starboard-hand lateral mark)    3. colour – 4 (green)    4. topmark       1. colour – 4 –(green)       2. topmark/daymark shape – 1 (cone (point up)) 5. Beacon Lateral (Point)    1. beacon shape – 3 (beacon tower)    2. category of lateral mark – 3 (preferred channel to starboard lateral mark)    3. colour – 4 (green), 3 (red), 4 (green)    4. colour pattern – 1 (horizontal stripes)    5. topmark       1. colour – 4 –(green)       2. topmark/daymark shape – 1 (cone (point up)) 6. Beacon Lateral (Point)    1. Beacon shape – 7 (buoyant beacon)    2. category of lateral mark – 2 (starboard-hand lateral mark)    3. colour – 4 (green) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.9 | | |  |
| **Description** | | Beacon Cardinal  Features to be arranged forming a diamond. | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Beacon Cardinal (Point)    1. beacon shape – 5 (pile beacon)    2. category of cardinal mark – 1 (north cardinal mark)    3. colour – 2 (black), 6 (yellow)    4. colour pattern – 1 (horizontal stripes)    5. topmark       1. colour – 2 (black)       2. topmark/daymark shape – 13 (2 cones point upwards) 2. Beacon Cardinal (Point)    1. beaconshape – 7 (buoyant beacon)    2. category of cardinal mark – 3 (south cardinal mark)    3. colour –6 (yellow), 2 (black)    4. colour pattern – 1 (horizontal stripes)    5. topmark       1. colour – 2 (black)       2. topmark/daymark shape – 14 (2 cones points downward) 3. Beacon Cardinal (Point)    1. beacon shape – 3 (beacon tower)    2. category of cardinal mark – 2 (east cardinal mark)    3. colour –2 (black), 6 (yellow), 2 (black)    4. colour pattern – 1 (horizontal stripes)    5. topmark       1. colour – 2 (black)       2. topmark/daymark shape – 11 (2 cones base to base) 4. Beacon Cardinal (Point)    1. beacon shape – 3 (beacon tower)    2. category of cardinal mark – 4 (west cardinal mark)    3. colour –6 (yellow), 2 (black), 6 (yellow)    4. colour pattern – 1 (horizontal stripes)    5. topmark       1. colour – 2 (black)       2. topmark/daymark shape – 10 (2 cones point to point) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.10 | | |  |
| **Description** | | Beacon Isolated Danger | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Beacon Isolated Danger (Point)    1. beacon shape – 3 (beacon tower)    2. colour – 2 (black), 3 (red), 2 (black)    3. colour pattern – 1 (horizontal stripes)    4. topmark       1. colour – 2 (black)       2. topmark/daymark shape - 4 (2 spheres) 2. Beacon Isolated Danger (Point)    1. Beacon shape – 7 (buoyant beacon)    2. colour – 2 (black), 3 (red), 2 (black)    3. colour pattern – 1 (horizontal stripes)    4. topmark       1. colour – 2 (black)       2. topmark/daymark shape - 4 (2 spheres) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.11 | | |  |
| **Description** | | Beacon Safe Water | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Beacon Safe Water (Point)    1. buoy shape – 3 (beacon tower)    2. colour – 3 (red), 1 (white)    3. colour pattern – 2 (vertical stripes) 2. Beacon Safe Water (Point)    1. colour – 3 (red), 1 (white)    2. colour pattern – 2 (vertical stripes) 3. Beacon Safe Water (Point)    1. beacon shape – 7 (buoyant beacon)    2. colour – 3 (red), 1 (white)    3. colour pattern – 2 (vertical stripes)    4. topmark       1. colour - 3 (red)       2. topmark/daymark shape – 3 (sphere) 4. Beacon Safe Water (Point)    1. beacon shape – 2 (withy)    2. colour – 3 (red), 1 (white)    3. colour pattern – 2 (vertical stripes)    4. topmark       1. colour - 3 (red)       2. topmark/daymark shape – 3 (sphere) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.12 | | |  |
| **Description** | | Beacon Special Purpose/General  These features should be arranged as a grid. | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Beacon Special Purpose/General (Point)    1. beacon shape – 6 (cairn)    2. category of special purpose mark – 18 (notice mark)    3. colour – 6 (yellow) 2. Buoy Special Purpose/General (Point) 3. beacon shape – 3 (beacon tower) 4. category of special purpose mark – 44 (refuge beacon) 5. colour – 6 (yellow) 6. Beacon Special Purpose/General (Point) 7. beacon shape – 5 (pile beacon) 8. category of special purpose mark – 14 (mooring mark) 9. colour – 2 (black) 10. Beacon Special Purpose/General (Point) 11. beacon shape – 3 (beacon tower) 12. category of special purpose mark – 18 (notice mark) 13. colour – 6 (yellow) 14. Beacon Special Purpose/General (Point)     1. beacon shape – 6 (cairn)     2. category of special purpose mark – 48 (GNSS mark)     3. colour – 6 (yellow)     4. visual prominence – 1 (visually conspicuous) 15. Beacon Special Purpose/General (Point) 16. beacon shape – 3 (beacon tower) 17. category of special purpose mark – 25 (speed limit mark) 18. colour – 6 (yellow) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.13 | | |  |
| **Description** | | Daymark | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Daymark (Point)    1. colour – 3 (red)    2. topmark/daymark shape – 19 (square) 2. Daymark (Point)    1. colour – 1 (white)    2. topmark/daymark shape – 24 (triangle (point up)) 3. Daymark (Point)    1. colour – 2 (black)    2. topmark/daymark shape – 25 (triangle (point down)) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.14 | | |  |
| **Description** | | Light float | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Light float (Point)    1. colour – 6 (yellow)    2. topmark       1. colour – 6(yellow)       2. topmark/daymark shape – 7 (x shaped) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.15 | | |  |
| **Description** | | Light Vessel | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Light Vessel (Point)    1. colour – 3 (red)    2. feature name       1. display name – ”true”       2. name – ”Varne” | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.16 | | |  |
| **Description** | | Retroreflector | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Retroreflector (Point)    1. colour – 11 (orange) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.17 | | |  |
| **Description** | | Radar Reflector | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Radar Reflector (Point) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 20.18 | | |  |
| **Description** | | Fog Signal | | |
| **Location** | | | **Description** | |
| 32°20'25.03"S 60°54'41.85"E | | | 1. Fog Signal (Point)    1. category of fog signal – 3 (siren)    2. signal generation – 5 (radio activated) 2. Fog Signal (Point)    1. category of fog signal – 6 (tyfon)    2. signal generation – 1 (automatically) | |
| **Screen Capture** | |  | | |