# **Test Dataset: 101AA00DS0021 – Dataset 21 (FINAL 20230712) – Edtn 5**

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| **Ref** | **Feature** | **Page** |
| 21.2 | Physical AIS Aid to Navigation (4) | 2 |
| 21.3 | Virtual AIS Aid to Navigation (8) | 2 |
| 21.4 | Radio Station (2) | 3 |
| 21.5 | Radar Transponder Beason (2) | 4 |

( 14 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** | 21.2 | | |  |
| **Description** | | | Physical AIS Aid to Navigation | |
| **Location** | | **Description** | | |
| 32-16.211S, 62-11.9495E | | 1. Buoy Lateral (Point)    1. buoy shape – 2 – (can)    2. category of lateralMark – 1 – port-hand lateral mark    3. colour – 3 (red) 2. Physical AIS Aid to Navigation (Point)    1. MMSI code - 123456789   Item 2 to share the geometry of item 1.   1. Buoy Safe Water (Point)    1. buoy shape – 4 – (pillar)    2. colour – 1 (white), 3 (red)    3. colpat - 2 (vertical stripes)    4. topmark       1. colour - 3(red)       2. topmark/daymark shape – 3 (sphere) 2. Physical AIS Aid to Navigation (Point)    1. Feature name       1. Name ”fairway outer”    2. MMSI code - 123456789   Item 4 to share the geometry of item  3. | | |
| **Screen Capture** | | |  | |

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| **Scenario** | 21.3 | | |  |
| **Description** | | Virtual AIS Aid to Navigation | | |
| **Location** | | | **Description** | |
| 32-16.265S, 62-13.751E | | | 1. Virtual AIS Aid to Navigation (Point)    1. Feature name       1. name – “East Owers”    2. MMSI code - 123456789    3. Virtual AIS aid to navigation type – 2 (east cardinal) 2. Virtual AIS Aid to Navigation (Point)    1. Feature name       1. name – “Thorn”    2. MMSI code - 123456789    3. Virtual AIS aid to navigation type – 6 (starboard lateral) 3. Virtual AIS Aid to Navigation (Point)    1. Feature name       1. name – “Wolf Rock”    2. MMSI code - 123456789    3. Virtual AIS aid to navigation type – 9 (isolated danger) 4. Virtual AIS Aid to Navigation (Point)    1. Feature name       1. name – “Outer Fairway”    2. MMSI code - 123456789    3. Virtual AIS aid to navigation type – 10 (safe water) 5. Virtual AIS Aid to Navigation (Point)    1. Feature name       1. name – “scientific instrument D001”    2. MMSI code - 123456789    3. Virtual AIS aid to navigation type – 11 (special purpose) 6. Virtual AIS Aid to Navigation (Point)    1. Feature name       1. name – “wreck mark”    2. MMSI code - 123456789    3. Virtual AIS aid to navigation type – 12 (new danger marking) (Emergency wreck marking) 7. Virtual AIS Aid to Navigation (Point)    1. MMSI code - 123456789    2. Virtual AIS aid to navigation type – 7 (preferred channel to port) 8. Virtual AIS Aid to Navigation (Point)    1. MMSI code - 123456789    2. Virtual AIS aid to navigation type – 8 (preferred channel to starboard) | |
| **Screen Capture** | |  | | |

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| **Scenario** | 21.4 | | |  |
| **Description** | | Radio Station | | |
| **Location** | | | **Description** | |
| 32-14.9301S, 62-11.2508E | | | 1. Radio Station (point)    1. Category of radio station – 10 (differential GNSS)    2. Feature name       1. name – “South Jussland” 2. Radio Station (point)    1. call sign – “XYZ01”    2. category of radio station – 19 (radio telephone station)    3. communication channel – “17Y”    4. estimated range of transmission – “10”    5. frequency pair       1. frequency shore station receives – 95000000       2. frequency shore station transmits - 90000000 | |
| **Screen Capture** | |  | | |

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| **Scenario** | 21.5 | | |  |
| **Description** | | Radar Transponder Beacon | | |
| **Location** | | | **Description** | |
| 32-14.8667S, 62-14.1455E | | | 1. Radar Transponder Beacon (Point)    1. category of radar transponder beacon – 1 (racon, radar transponder beacon)    2. Feature name       1. Name – “Varne”    3. signal group – T 2. Radar Transponder Beacon (Point)    1. category of radar transponder beacon – 1 (racon, radar transponder beacon)    2. Sector limit       1. sector limit one          1. sector bearing – 090       2. sector limit two          1. sector bearing 180    3. signal group - C   Note 1 – S-101 expands Racon to allow sectors to be encoded but display rules do not reflect this consider change to portrayal rules to reflect these attributes.  Note 2 – consider the display of Racon character to be more consistent with S-4, for potential discussion in Portrayal SG. | |
| **Screen Capture** | |  | | |