Arctic Regional Hydrographic Commission (ARHC)

Arctic Regional Marine Spatial Data Infrastructures Working Group (ARMSDIWG)

**MSDI Aggregated Data Web Service Checklist for the ARHC**

In keeping with ARMSDIWG’s Terms of Reference task to “identify and assess the statuses of individual MS MSDI implementation and operationalization”, the ARMSDIWG has asked the hydrographic offices of ARHC to complete this checklist annually. Doing so will allow ARMSDIWG, on behalf of ARHC, to track the status of fulfilling Arctic MSDI-related data web service requests identified by ARHC, and to enable a federated approach to MSDI in the Arctic with data directly from each national hydrographic authority or partner agency/organization.

**Hydrographic Office:** Click here to enter the name(s) of your responding Hydrographic Office(s).

**Date:** Click to enter a date.

**General Arctic Hydrographic Office Data**

*Please indicate in the checkboxes if the dataset is AVAILABLE* or *NOT AVAILABLE via geospatial web service, and if AVAILABLE, please indicate if it is FREE to access and provide the URL to the web service. If an international/multi-national dataset is recommended instead, please check AVAILABLE and provide the web service URL:*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **DATASET** | | **NOT AVAILABLE** | **AVAILABLE** | **FREE** |
| Navigational Charts (S-57) | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Navigational Charts (Analog/Raster) | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Bathymetric Data/Depth Data | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Coastline | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Maritime Limits and Boundaries | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Nautical Information (Sailing Directions) | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Nautical Information (Harbor Pilots) | |  |  |  |
| URL: | Click here to enter URL. | | | |

**Arctic Voyage Planning Guide (AVPG)**

*Please indicate in the checkboxes if the dataset is AVAILABLE* or *NOT AVAILABLE via geospatial web service, and if AVAILABLE, please indicate if it is FREE to access and provide the URL to the web service. If an international/multi-national dataset is recommended instead, please check AVAILABLE and provide the web service URL. Datasets below are ordered by AVPG Theme:*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **DATASET** | | **NOT AVAILABLE** | **AVAILABLE** | **FREE** |
| **Theme 1: Carriage Requirements** | | | | |
| Navigation Warning Services | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Radio Aids to Navigation | |  |  |  |
| URL: | Click here to enter URL. | | | |
| List of Lights and Buoys and Aids to Navigation | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Nautical Charts and Publications Services | |  |  |  |
| URL: | Click here to enter URL. | | | |
| **Theme 2: Regulatory Requirements** | | | | |
| Acts and Regulations specific to Marine Navigation (similar to S-49 E.3.2) | |  |  |  |
| URL: | Click here to enter URL. | | | |
| IMO Guidelines for Operating in Polar Waters | |  |  |  |
| URL: | Click here to enter URL. | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **DATASET** | | **NOT AVAILABLE** | **AVAILABLE** | **FREE** |
| **Theme 3: Arctic Environment Considerations** | | | | |
| Communities and Populated Areas Information | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Weather Station Locations and Services Available (similar to S-49 E.4.2 and U.4)) | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Airports and Hospitals | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Resource Development Significant Locations | |  |  |  |
| URL: | Click here to enter URL. | | | |
| **Theme 4: Route Planning** | | | |  |
| Traditional Traffic Routes (similar to S-49 E.3.2) | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Controlled Navigational Areas including Vessel Traffic Services Zones | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Limiting Depth For Constricted Waterways | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Tide, Current and Water Level information (similar to S-49 U.6.1) | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Environment Protected Areas | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Major Aids to Navigations (similar to S-49 E.1.2 and U.1.2) | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Places of refuge or Pilot Boarding Stations (similar to S-49 E.1.5) | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Calling-in Points (similar to S-49 E.4.1) | |  |  |  |
| URL: | Click here to enter URL. | | | |
| **Theme 5: Reporting and Communicating** | | | | |
| Areas of Legislative Importance to Navigation | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Marine Communication Services (similar calling-in info to S-49 E.4.1) | |  |  |  |
| URL: | Click here to enter URL. | | | |
| **Theme 6: Marine Services** | | | | |
| Ice Breaking Support Services | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Search and Rescue Support Services | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Ice Services Information (similar to S-49 U.6.4) | |  |  |  |
| URL: | Click here to enter URL. | | | |
| **Theme 7: Nautical Charts and Publication** | | | | |
| Nautical Chart Catalogue and Coverage | |  |  |  |
| URL: | Click here to enter URL. | | | |
| Publication Catalogue and Coverage | |  |  |  |
| URL: | Click here to enter URL. | | | |

**User Survey Report: Better access to geospatial data for Arctic marine areas**

*Please indicate in the checkboxes if the dataset is AVAILABLE* or *NOT AVAILABLE via geospatial web service, and if AVAILABLE, please indicate if it is FREE to access and provide the URL to the web service. If an international/multi-national dataset is recommended instead, please check AVAILABLE and provide the web service URL. If more explanation is needed to answer accurately, please check CLARIFY. Datasets below are ordered by importance (on a 0-10 scale with 10 being the most important) based on feedback from the Arctic Council’s AMAP, PAME, and EPPR working groups:*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATASET** | | **NOT AVAILABLE** | | **AVAILABLE** | | **FREE** | | **CLARIFY** |
| **Importance: 9** | | | | | | | | |
| Sea Areas | |  | |  | |  | |  |
| URL: | Click here to enter URL. | | | | | | | |
| Maritime Borders | |  | |  | |  | |  |
| URL: | Click here to enter URL. | | | | | | | |
| Ice border zone | |  | |  | |  | |  |
| URL: | Click here to enter URL. | | | | | | | |
| Ship Traffic | |  | |  | |  | |  |
| URL: | Click here to enter URL. | | | | | | | |
| **DATASET** | | **NOT AVAILABLE** | | **AVAILABLE** | | **FREE** | | **CLARIFY** |
| **Importance: 8** | | | | | | | | |
| Land Areas | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| National Borders | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Coastal Borders | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Ocean Floor and Seabeds | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Ocean streams | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Special Valuable and Vulnerable Areas | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Vulnerable natural habitats | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| **Importance: 7** | | | | | | | | |
| Satellite data/images | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Named Places | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Distribution of Fish Species | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Distribution of Sea Mammals | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Sea bird colonies | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Marine Protection | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Fishery | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Offshore Installations | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| **Importance: 6** | | | | | | | | |
| Continental Shelfs | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| **Importance: 5** | | | | | | | | |
| Management Planning Areas | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Distribution of Shellfish | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Petroleum Resources | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Mineral Resources | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Geological Structures | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Human Influence | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Environmental Values | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| **Importance: 4** | | | | | | | | |
| Statistical Areas of Fishery | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Ocean Wind Study Areas | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Traffic Regulations | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| **Importance: 3** | | | | | | | | |
| Fishery Regulations | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |
| Regulations for Petroleum Activities | | |  | |  | |  |  |
| URL: | Click here to enter URL. | | | | | | | |