

**PAME I-2015 Agenda Item 4.9(a)**  
**AMSA Recommendation III(A): Addressing the Infrastructure Deficit**  
**Port Reception Facility Database Information for Arctic and Near Arctic Ports**

IMO's Global Integrated Shipping Information System (GISIS)  
Pub 150 World Port Index and World Port Source Web based  
Databases  
AMATII Website, Database and Interactive Maps

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**REFERENCES AND RELATED DOCUMENTS**

PAME (I) 12/4.6/b/USA/*Specially Designated Arctic Marine Areas and Port Waste Reception Facilities*

PAME (II) 13/4.8/(c)/USA *Specially Designated Arctic Marine Areas and IMO's Global Integrated Shipping Information System (GISIS) Port Reception Facility Database Update for Arctic and Near Arctic Ports*

PAME II-2014 final RoDs

**BACKGROUND**

With respect to MARPOL port reception facilities (PRF), AMSA Recommendation III(A) states in part:

*"That the Arctic states should recognize that improvements in Arctic marine infrastructure are needed to enhance safety and environmental protection in support of sustainable development. Examples of infrastructure where critical improvements are needed include...port services, including reception facilities for ship-generated waste...."*

Starting in 2007 IMO's Global Integrated Shipping Information System (GISIS) database<sup>1</sup> module on port reception facilities became operational. IMO Member States were encouraged to populate the database with their port information.

In a paper submitted to PAME I-2012, the USA recommended that PAME member governments update the GISIS port reception facility database module with information on the availability and adequacy of port waste reception facilities at Arctic and near Arctic ports. PAME I-2012 subsequently adopted a ROD encouraging Arctic states to update their port data in GISIS. At PAME II-2013 the USA provided an update on port reception facility data for the Arctic region as reported by Arctic states in GISIS. It was reported to PAME II-2013 that progress has been made by all Arctic states with populating IMO's GISIS database.

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<sup>1</sup> The GISIS database can be accessed at [www.gisis.imo.org](http://www.gisis.imo.org) (Public users are required to register and select a password)

This paper examines the GISIS database information and the types of data contained in other publically accessible databases with special regard to data relating to port reception facilities for ship generated MARPOL wastes, and accessibility of information on reception facilities and port infrastructure in the Arctic.

**DISCUSSION**

**GISIS port reception facility data**

As previously reported to PAME, Arctic states have populated the GISIS data base with information regarding port reception facilities. GISIS reception facility data provides a valuable information resource for ship operators to identify availability of port reception facilities around the world, including those located in Arctic and near Arctic regions likely to service ships departing for, returning from, or transiting Arctic regions. PAME (II) 13/4.8/(c)/USA contains a table summarizing, by Arctic state, the number of ports, the number of facilities and the categories of waste accepted at those facilities. The GISIS port reception facility database (PRFD) provides specific facility information on reception facilities by type of MARPOL waste and includes contact information for the port or terminal owner/operator, contact information for the port authorities, and contact point for the national port authorities.

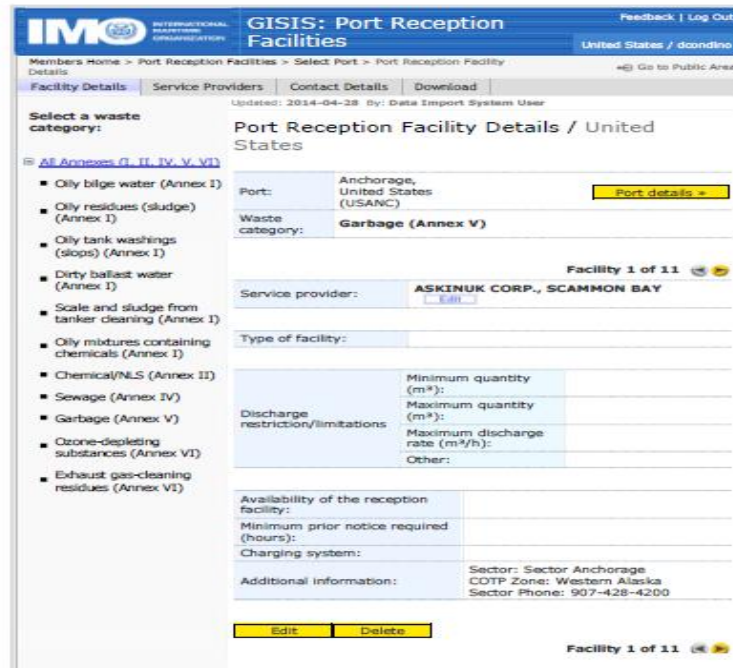


Fig 1a. Typical GISIS port specific entry made by the port state official entering information into the database for a US port/terminal in Anchorage AK, USA.

The screenshot displays the IMO GISIS: Port Reception Facilities interface. The header includes the IMO logo and navigation links like 'Feedback | Log Out' and 'United States / doordine'. The main content area is titled 'Port Reception Facilities / Anchorage, United States (USANC)' and shows 'Facility 1 of 11' for 'Garbage (Annex V)'. The facility details include:

- Service provider:** ASKINUK CORP., SCAMMON BAY
- Address:** Askinuk Corp, P.O. Box 89, Scammon Bay AK 99662
- Phone:** 907-558-5411
- Fax:**
- Telex:**
- Email:**
- Web:**

Additional sections include 'Type of facility', 'Discharge restriction/limitations' (with fields for minimum and maximum quantities and discharge rates), and 'Availability of the reception facility' (with fields for minimum prior notice and charging system). A sidebar on the left lists various waste categories under 'All Annexes (I, II, IV, V, VI)'. The footer contains copyright information for the International Maritime Organization.

Fig 1b. Port reception facility information for the port of Anchorage AK, USA that the ship master would see on the publically accessible database

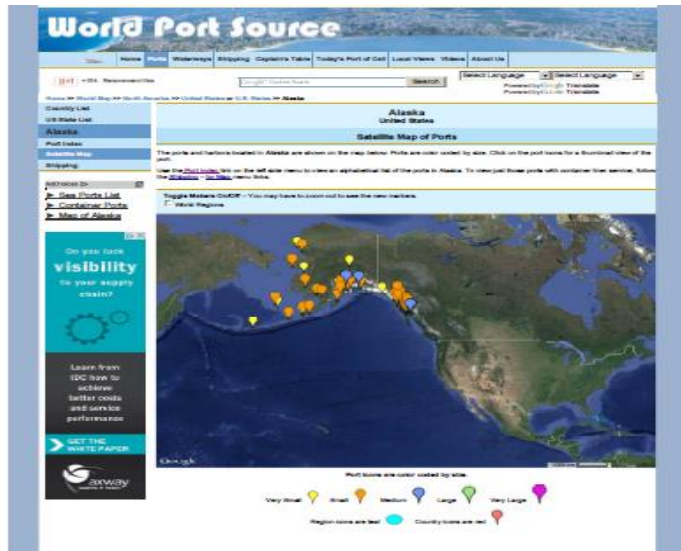
### World Port Index and World Port Source data.

Pub 150, World Port Index<sup>2</sup>, has both a paper version and a PDF version and contains data on ports around the world (Fig 2a). The World Port Source website<sup>3</sup>, (Fig 2b), provides information on port infrastructure and services and the data is taken from Pub 150<sup>i</sup>. Both publications list two categories for the reception of waste from ships when calling at a listed port. One category is “garbage disposal” and the second category is “dirty ballast”. MARPOL does not use these terms specifically but it is apparent that garbage is as defined in MARPOL Annex V, and dirty ballast is meant to mean oily or otherwise contaminated ballast water.

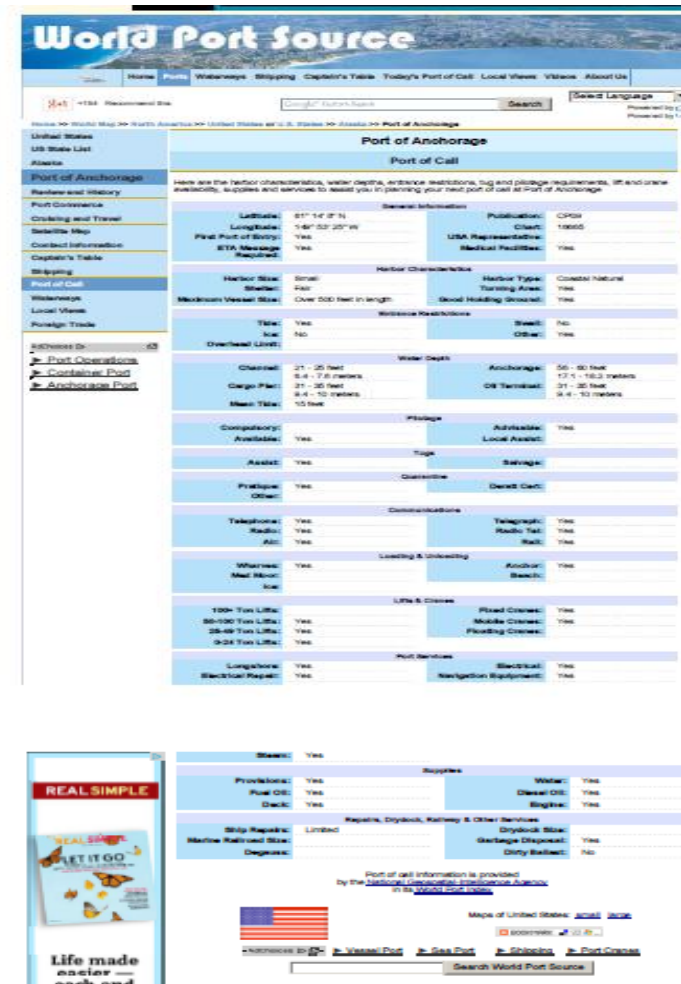
<sup>2</sup> World Port Index, PUB 150, US Geospatial Intelligence Agency 2015<sup>3</sup>

<sup>3</sup> Access the World Port Source database at <http://www.worldportsource.com/index.php>





Interactive MAP



Data Extract

Fig 2b. World Port Source Interactive Map and Data extract for port of Anchorage AK, USA.

## Arctic Marine and Aviation Transportation Infrastructure Initiative (AMATII) database and interactive maps website

The AMATII<sup>4</sup> database (Fig 3a and 3b), is a project of the Institute of the North. While the data contained in the AMATII database is virtually identical to the data in the World Port Index (and on the World Port Source website), the AMATII data base focuses on Arctic (and near Arctic ports in its listing. Data retrieval on the AMATII website is similar in function to the World Port Source website.



Fig 3a. AMTII Interactive Map and Database Website

Anchorage - Port	
<b>General Information</b>	
World port index:	19600
UNLQ code:	USANAC
Chart number:	16665
Port type:	Coastal Natural
Port size:	Medium
<b>Location Information</b>	
Country:	US Alaska
Region:	Southeastern
Closest city:	Anchorage
Timezone:	UTC-9(-8DT)
Population:	295570
<b>Operation Management</b>	
Agency:	City of Anchorage
Website:	<a href="http://www.portofalaska.com/">http://www.portofalaska.com/</a>
First port of entry:	Yes
ETA required:	Yes
<b>Physical Attributes</b>	
Cranes:	fixed/ mobile
Lifts:	0-100
Load / Offload:	wharves/ anchor
Dry dock:	NULL
Marine railway:	NULL
Shelter afforded:	fair
Entrance restrictions:	tidal/ other
Good holding area:	Yes
Turning area:	Yes
Vessel loa:	152.4+
<b>Services, Supplies and Communications</b>	
LINC:	
Medical assistance:	Yes
Access to tugs:	assist
Telephone:	Yes
Telex:	Yes
Radio:	Yes
Radio telephone:	Yes
Air:	Yes
Rail:	Yes
Equipment:	Yes
Pilotage:	available/ advisable
Provisions:	Yes

Fig 3b. Data extracted from AMATII database (port of Anchorage)

<sup>4</sup> AMATII database may be accessed at: <http://www.arcticinfrastructure.org/>

## **CONCLUSIONS**

1. The PAME II 2013 paper on GISIS, reported that there was a significant improvement in populating the port reception facility database with port data/information since the PAME 2006 DNV Technical Report. The IMO's GISIS port reception facility module is a useful tool for port states and flag states. A review of data shows that Arctic states party to MARPOL are utilizing the GISIS database port reception facility module as it was intended.
2. The World Port Index provides a convenient paper or PDF electronic version of data on ports worldwide, including listings of ports in Arctic regions. Unfortunately it has limited information regarding reception facilities.
3. The World Port Source website includes information on ports that is nearly identical to the data in the World Port Index Pub 150. Again, it has only limited information regarding reception facilities; however it has incorporated maps and search utilities for obtaining port information, and includes ports located in Arctic regions.
4. The AMATII database also uses the data from the World Port Index, Pub 150. It contains additional transportation related information and has incorporated maps and search utilities for viewing data.

## **RECOMMENDATIONS**

The USA recommends that:

- Arctic states party to MARPOL continue to ensure that information on port reception facilities at Arctic ports/terminals is current, up-to-date and provided to IMO for inclusion in the GISIS port reception facility database.
- PAME explore ways to further utilize all existing databases to identify Arctic port infrastructure and availability of such infrastructure to meet the needs of shipping.

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<sup>i</sup> Note: Pub 150, the World Port Index, is a publically available document and the data is not copyright protected.