

## 1. Purpose

- To raise the awareness of the needs of maritime safety in the Arctic
- To develop views on desirable coordinated action which could be achieved in [five] years on
  - Communications, maritime services and aids to navigation
  - Hydrography

## 2. Organisation of the Seminar

### 2.1. Name

- Ideas
  - “IALA-IHO Seminar on Arctic navigation”
  - “Maritime Services for the Arctic”
  - Others?

### 2.2. Host and location

- IALA Secretariat, St Germain en Laye 78100, France

### 2.3. Date and duration

- ?July 2016, week of 5-9 September 2016, or November 2016
- Two days

### 2.4. Invitees

- IHO Secretariat and rep. from Arctic members
- IALA Councillors from Arctic Council states (Denmark, Finland, Norway, Sweden, United States)
- Representatives from the remaining Arctic Council states (Canada, Russian Federation, Iceland)
- Arctic Council Secretariat
- IMO
- WMO

## 3. Agenda – Day 1

### 3.1. Opening, Purpose, Situation

- IALA Secretary-General/IHO President opens the Seminar
  - Background and purpose of the Workshop
  - Previous IALA meeting of February 2010, and INF paper to IMO
  - Informal Arctic discussions during recent IALA Council meetings
  - IALA technical work to date
- IHO President describes hydrographic status and plans
  - ...
  - ...
- WMO sets the climate and weather scene
  - Future trends in weather and climate
- Arctic Council viewpoint

- Needs identified by the Arctic Council concerning Hydrography, AtoN, maritime services

### **3.2. Arctic States viewpoints**

- Canada
- Denmark
- Finland
- Iceland
- Norway
- Russian Federation
- Sweden
- United States

## **4. Agenda – Day 2**

### **4.1. Expert-led discussion A (IALA)**

- Communications, maritime services, and aids-to-navigation
  - Communications challenges and harmonised connectivity
  - Data modelling
  - Maritime services
  - Vessel tracking
  - Positioning, including visual and electronic aids to navigation
- Aim to have two or three firm action items for IALA

### **4.2. Expert-led discussion B (IHO)**

- ?Areas of need?
- ?Crowd-sourcing and data verification?
- ...
- ?Desired result for IHO?

### **4.3. Conclusions and closing**

- Summary of conclusions
  - Communications, maritime services, and aids-to-navigation
  - Hydrography
- Action items
  - IALA
  - IHO
  - States
- Follow up plan
  - Reporting method
  - Further coordination e.g. repeat in two years' time
- AOB

## Timetable

<b>Day 1</b>		
Registration		0900-0930
Opening of Seminar	IALA Secretary-General	0930-0950
	IHO President	0950-1020
	WMO	1020-1050
	Arctic Council	1050-1130
Coffee break		30 min 1130-1200
Arctic States viewpoints	Four addresses of 15 min	1200-1300
Lunch	At IALA HQ	80 min 1310-1430
Arctic States viewpoints	Four addresses of 15 min	1430-1530
Coffee break		30 min 1530-1600
Summary and discussion	Led by IALA Secretary-General and IHO President	1600-1630
<b>Day 2</b>		
Expert-led discussion A		0900-1000
Conclusions	Led by IALA	1000-1030
Coffee break		30 min 1030-1100
Expert-led discussion B		1100-1200
Conclusions	Led by IHO	1200-1230
Closing of Seminar and follow-up	IALA Secretary-General	1230-1250
Lunch	At IALA HQ	60 min 1300-1400
Delegates depart		