

WORLD METEOROLOGICAL ORGANIZATION

**INTERGOVERNMENTAL OCEANOGRAPHIC
COMMISSION (OF UNESCO)**

JOINT WMO/IOC TECHNICAL COMMISSION FOR
OCEANOGRAPHY AND MARINE METEOROLOGY
(JCOMM)
EXPERT TEAM ON SEA ICE – FOURTH SESSION

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STEERING GROUP FOR THE PROJECT GLOBAL DIGITAL
SEA ICE DATA BANK (GDSIDB) – TWELTH SESSION

ITEM 3.6.1

ST PETERSBURG, RUSSIAN FEDERATION
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Sea Ice Atlases in the Canadian Ice Service

(Marie-France Gauthier / Dan Fequet, Canadian Ice Service)

This document contains a brief summary of activities related to Ice Atlases being
undertaken by the Canadian Ice Service.

ACTION PROPOSED

The Expert Team on Sea Ice (ETSI) is invited to:

- (a)** Take note of the activities in the following.
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Polar Continental Shelf Project Ice Atlas Digitization

The Objective of this project is to contribute to the extension of the period of record of digitized ice charts in the Canadian Ice Service Digital Archive.

Since 1998, most CIS ice charts have been produced using Geographical Information Systems (GIS) and electronically stored in a digital graphics format. Charts prior to 1998 were all archived in hardcopy paper format. Over the years, CIS has undertaken the electronic digitization into vector graphic format of hardcopy archived regional ice charts. CIS is now in the process of completing the vector digitization of approximately 300 climatological ice charts produced by The Polar Continental Shelf Project (PCSP) during the 1960's and the 1970's. The purpose of this work is to expand the vector chart data set held by CIS and contributed to the GDSIDB. This will provide additional data on historical ice coverage in the Canadian Arctic and will result in improved climatological statistics, charts and information products.

CIS Climatic Ice Atlases - 2010

The "Sea Ice Climatic Atlas – East Coast of Canada 1971-2000" and the Lake Ice Climatic Atlas – Great Lakes 1973-2002 will be updated in 2010. Our plans for this year are to publish the new 30 years normals to include data from 1980/81-2009/10 seasons. The final formats have not yet been determined but there will be at least a CD/DVD version.

END