

Transport Canada Marine Safety

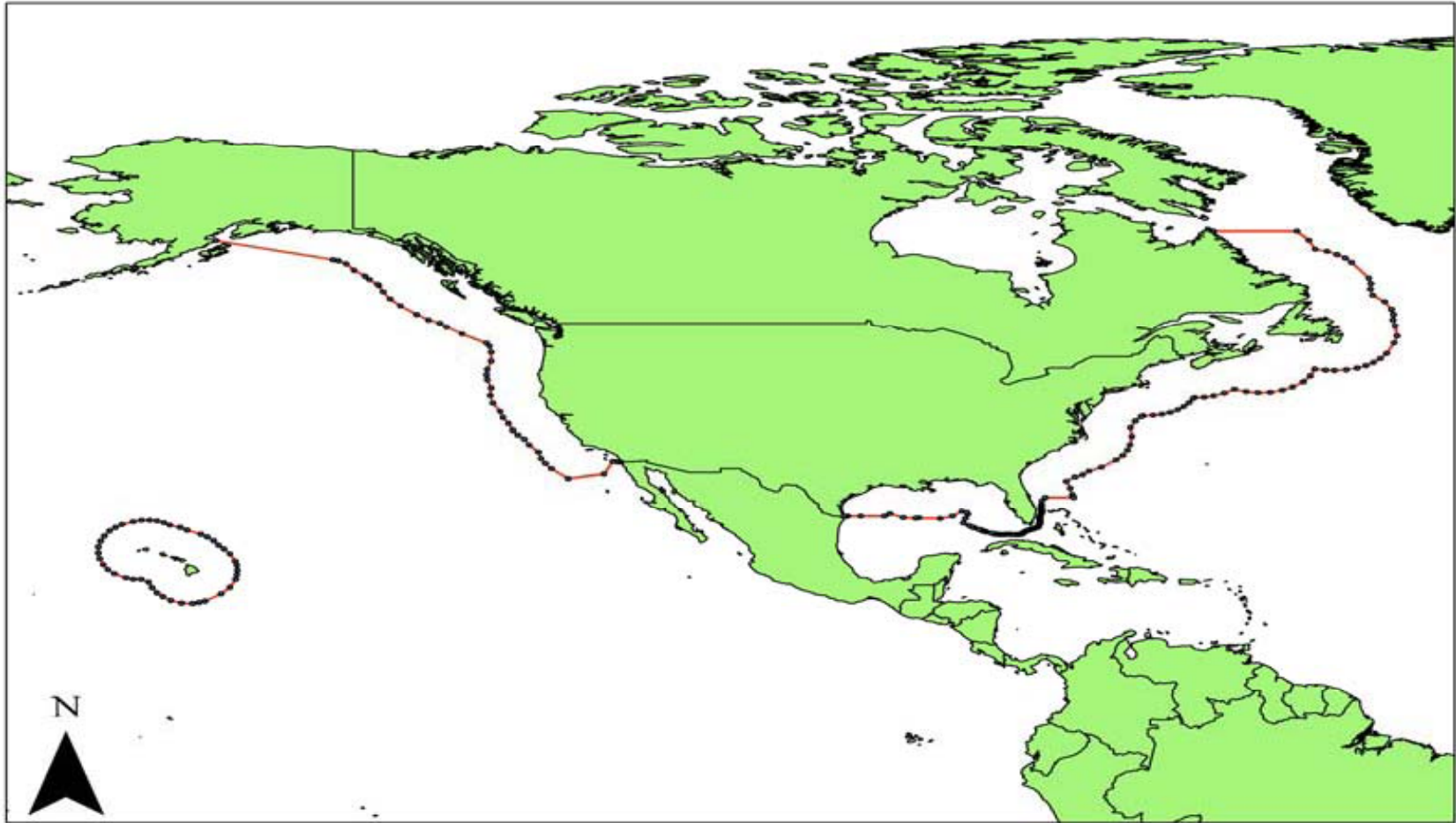
Emission Control Area – North America

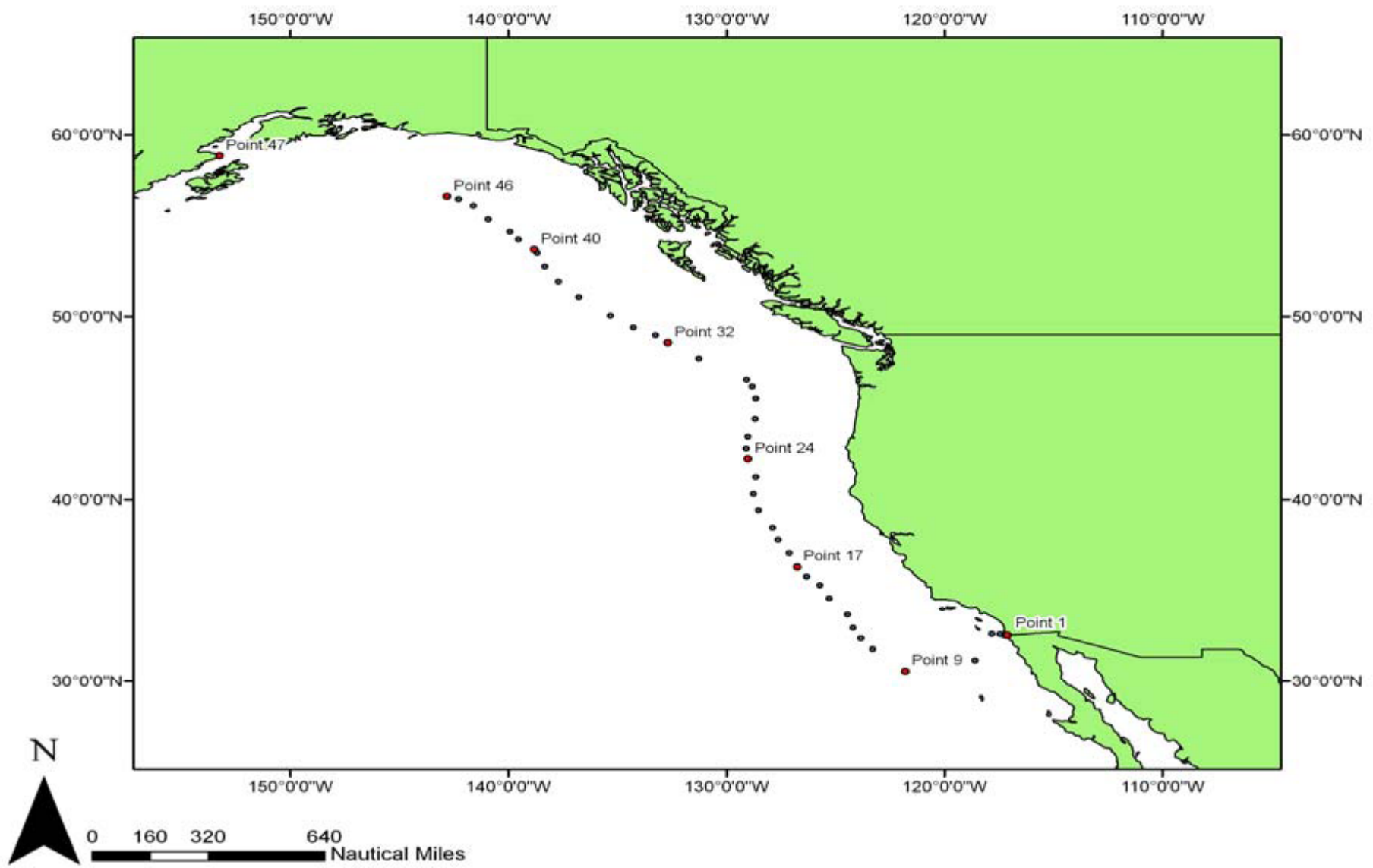




Background

- The IMO Marine Environment Protection Committee, at its 60th session (March 2010) adopted, by resolution [MEPC.190\(60\)](#), amendments to MARPOL, Annex VI to designate the North American Emission Control Area for NO_x, SO_x and particulate matter.
- The new appendix VII to MARPOL Annex VI contains the definition and boundaries with the full coordinates of the North American ECA, which is based on the "North American Datum of 1983/World Geodetic System 1984 (NAD83/WGS84)". (Reference: MEPC.1/Circ.723)
- Enforcement date: **August 1st, 2012.**







Port State Control - Inspection

Shipboard Documents and Certificates:

1. the [International Air Pollution Prevention Certificate](#) (IAPP Certificate), including its Supplement.
2. the [Engine International Air Pollution Prevention Certificate](#) (EIAPP) including its Supplement, for each applicable marine diesel engine.
3. the [Technical File](#) for each applicable marine diesel engine.
4. depending on the method used for demonstrating NOx compliance for each applicable marine diesel engine:
 - (a) the [Record Book of Engine Parameters](#) for each marine diesel engine, demonstrating compliance with regulation VI/13 by means of the marine diesel engine parameter check method; or





Port State Control - Inspection

- (b) documentation relating to the simplified measurement method;
or
- (c) documentation related to the direct measurement and monitoring method.
- 5. the [Approved Method File](#) (regulation VI/13.7).
- 6. written procedures covering [fuel oil change over operations](#) where separate fuel oils are used.
- 7. approved documentation relating to any installed [exhaust gas cleaning systems](#), or equivalent means, to reduce SO_x emissions.
- 8. the [bunker delivery notes](#) and associated samples or records.
- 9. the copy of the [type approval certificate of any shipboard incinerator](#) installed on or after 1 January 2000 (for the incinerators with capacities up to 1,500 kW).



Port State Control - Inspection

10. the [Ozone Depleting Substances](#) Record Book, if required.
11. the [VOC Management Plan](#), if required.
12. any notification to the ship's flag Administration issued by the master or officer in charge of the bunker operation together with any available commercial documentation relevant to non-compliant bunker delivery.



Emission Control Area North America

Fuel Change-over Procedure:

All ships using separate fuel oils when operating within a Emission Control Area are to carry a **written fuel oil changeover procedure**, developed specifically for that ship, detailing:

1. A step-by-step process for carrying out the fuel oil changeover; and
2. Methods for calculating the time necessary to ensure the fuel oil service system is fully flushed of all fuel oils exceeding the applicable sulphur content limit prior to entering into the ECA.



Emission Control Area North America

Fuel Sulphur limit:

When vessels are operating within an Emission Control Area established for SO_x and particulate matter control, the sulphur content of fuel oil used on board ships is required not to exceed the following limits:

- 1.00% m/m and
- 0.10% m/m on and after 1 January 2015;

or,

- equivalent method as approved (regulation VI/4);



Emission Control Area North America

Health, Safety, Environmental protection:

Material Safety Data Sheet (MSDS) for MARPOL Annex I type Cargoes and Marine Fuel Oils shall be provided to the ship by the supplier prior to loading or bunkering; this is to assist shipboard personnel in carrying out their duties under safe conditions. MSDSs might include the following warnings and guidance.



Emission Control Area North America

Sulphur in Diesel Fuel Regulations

Environment Canada is amending the *Sulphur in Diesel Fuel Regulations* under the *Canadian Environmental Protection Act, 1999*

- Amendments will allow fuel industry to manufacture and supply shipping industry with ECA-compliant diesel fuel
- Will align with U.S. standards
- Will enable Canada to fully implement the Canadian portion of the North American ECA and enable ships' full compliance



National Aerial Surveillance Program (NASP)

NASP Goals

To prevent pollution
from ships



To protect the marine
environment from the
adverse effects of
shipping





Israr Waheed
Compliance & Enforcement
Transport Canada Marine Safety
Vancouver
Phone: 604 666 5300

Thank you

