

Using AIS to determine adequacy of ENC coverage MACHC 15 Dec 2014

Assessing ENC coverage at Cruise Ship Ports-of-Call

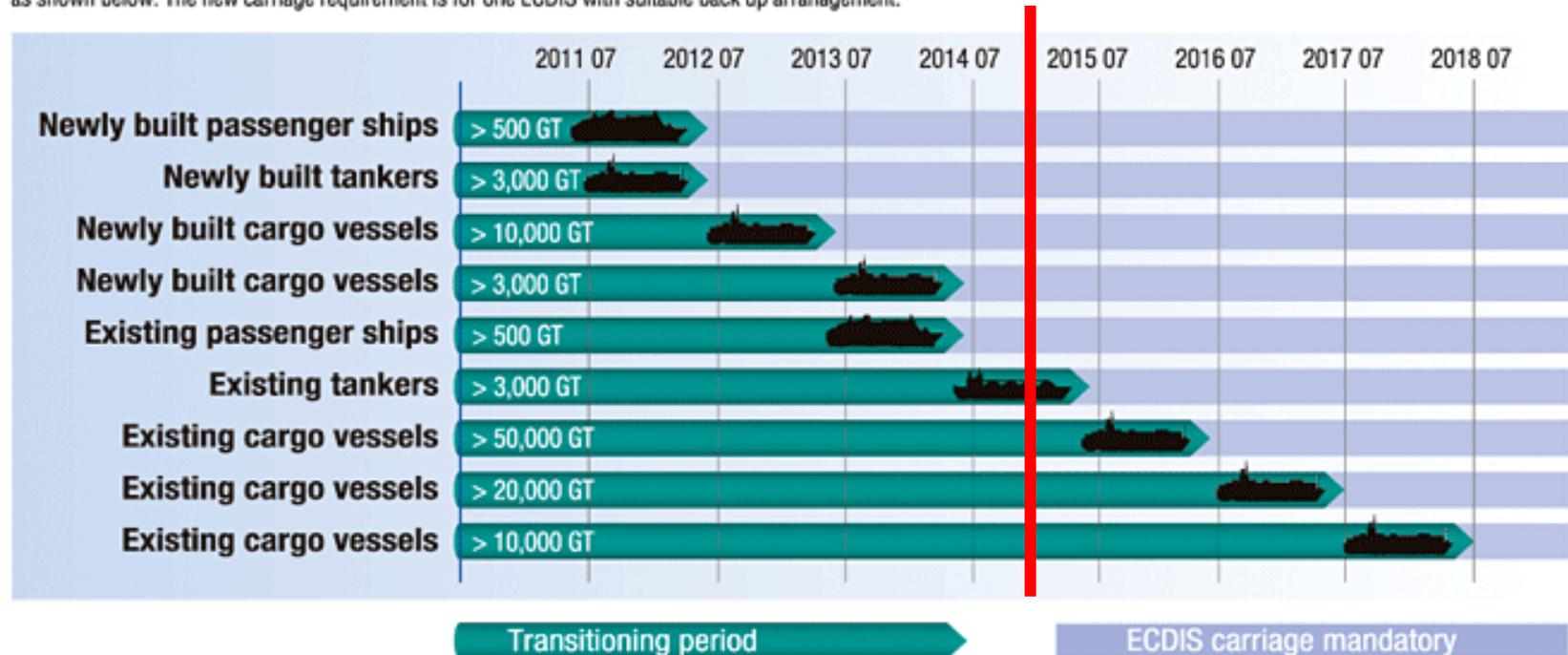
MACHC Integrated Charting Committee



Mandatory carriage regulations for ECDIS are now in force for some ships

Implementation schedule for mandatory carriage ECDIS

At the NAV-54 work group assembly in 2008, IMO has decided to make ECDIS mandatory for all IMO vessels >3,000 GT (passenger vessels >500 GT) with a transitioning period as shown below. The new carriage requirement is for one ECDIS with suitable back up arrangement.



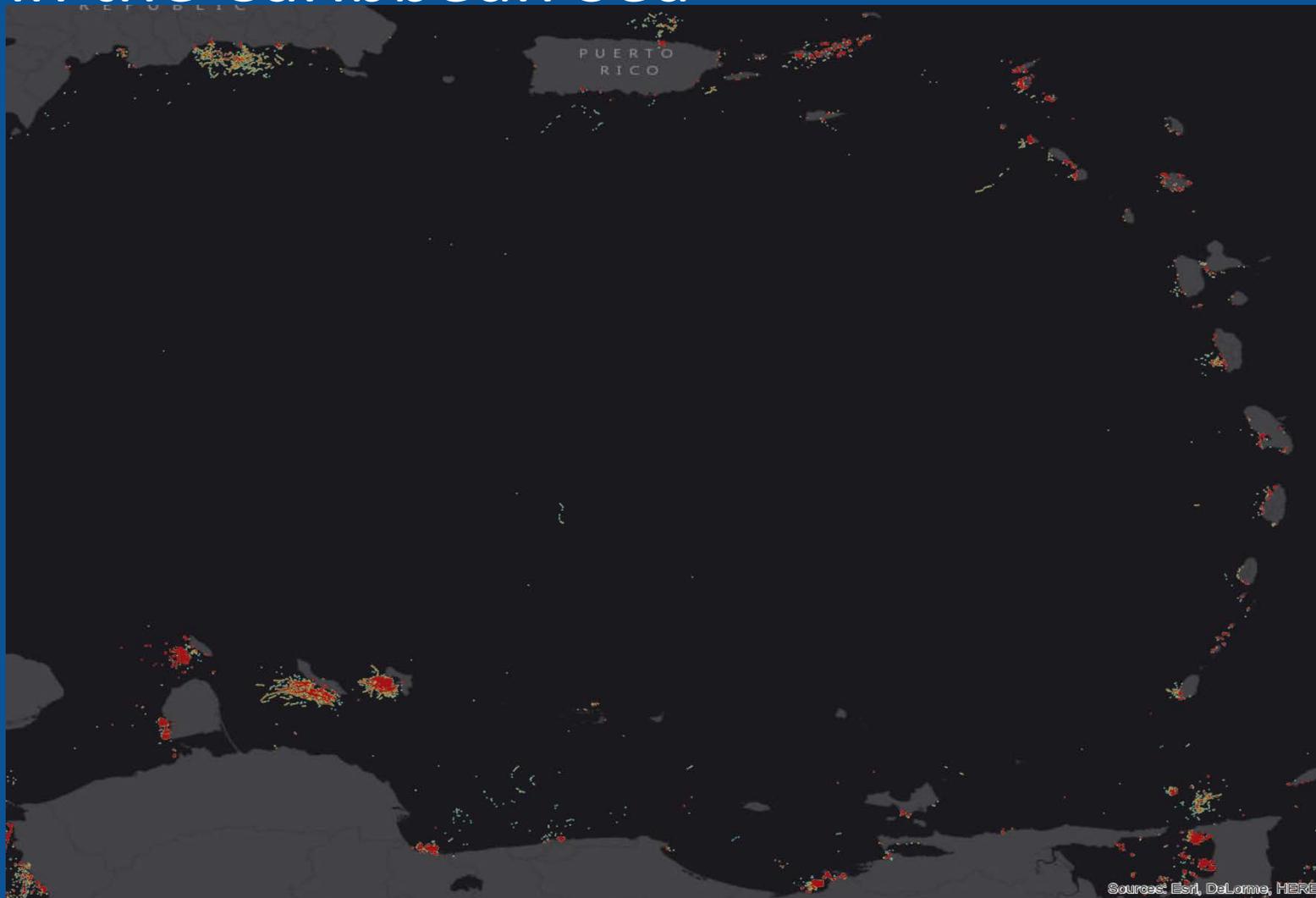
Member State compiled list of Priority Ports



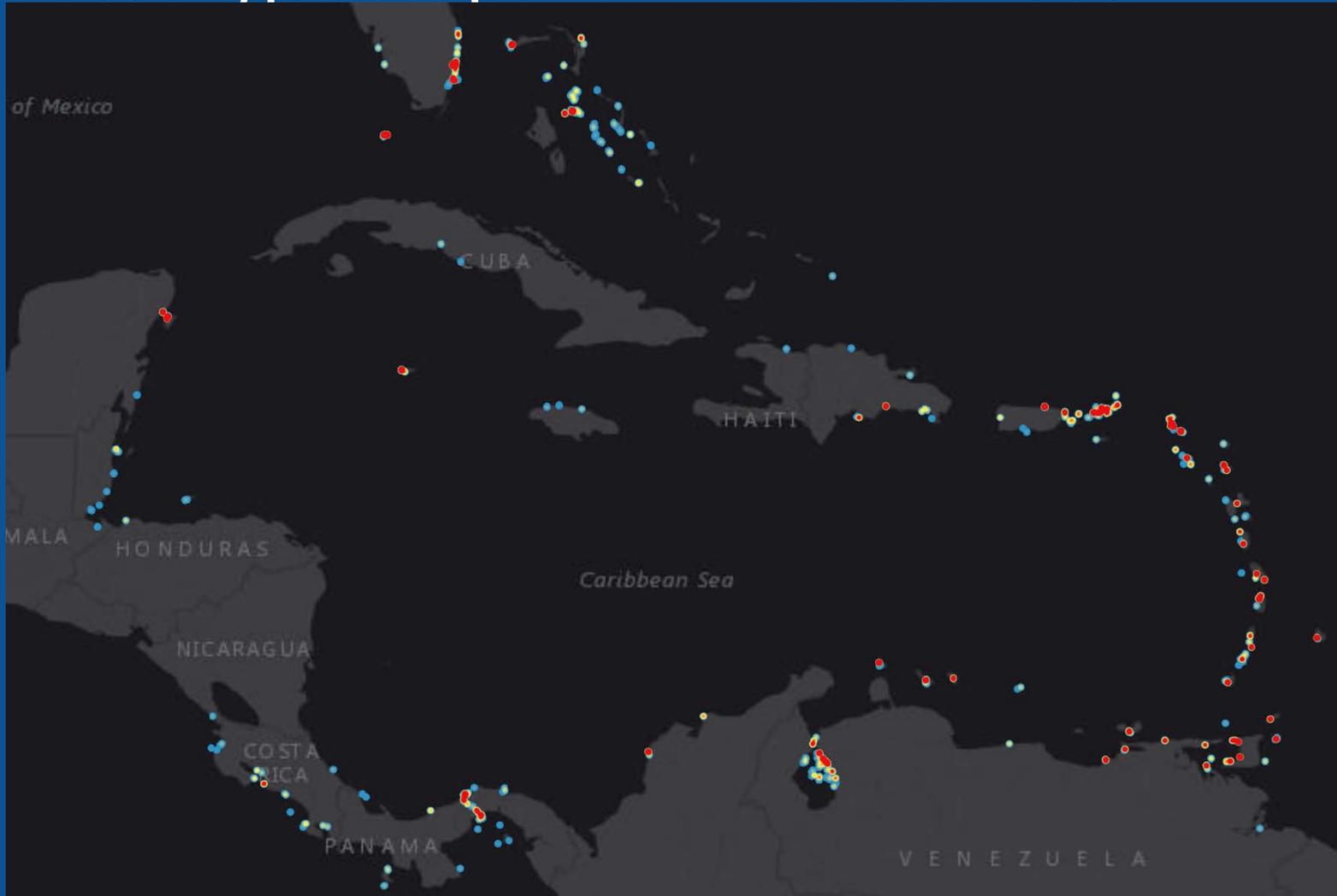
Are we missing anything



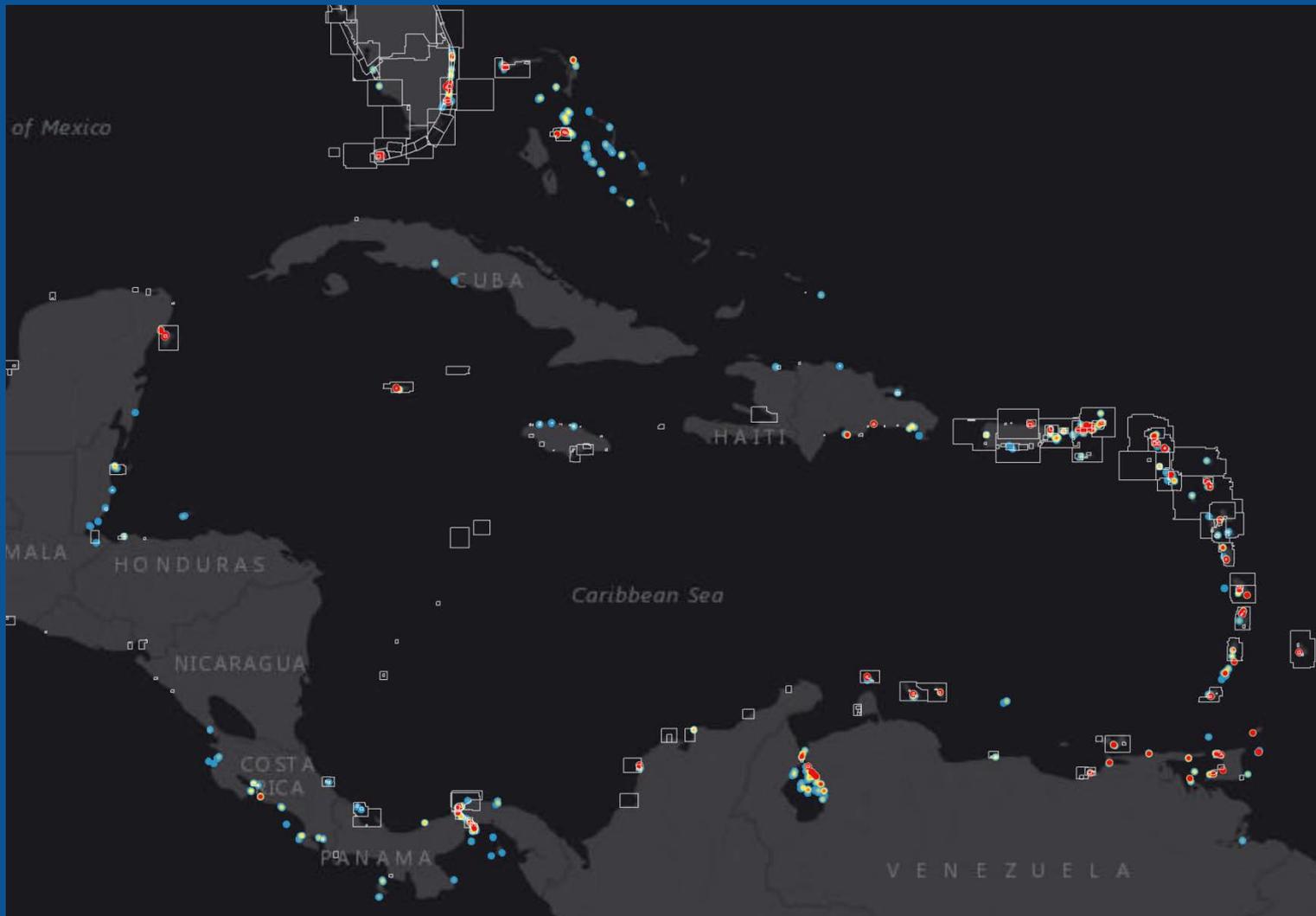
Density of Moored and Anchored Vessels in the Caribbean Sea



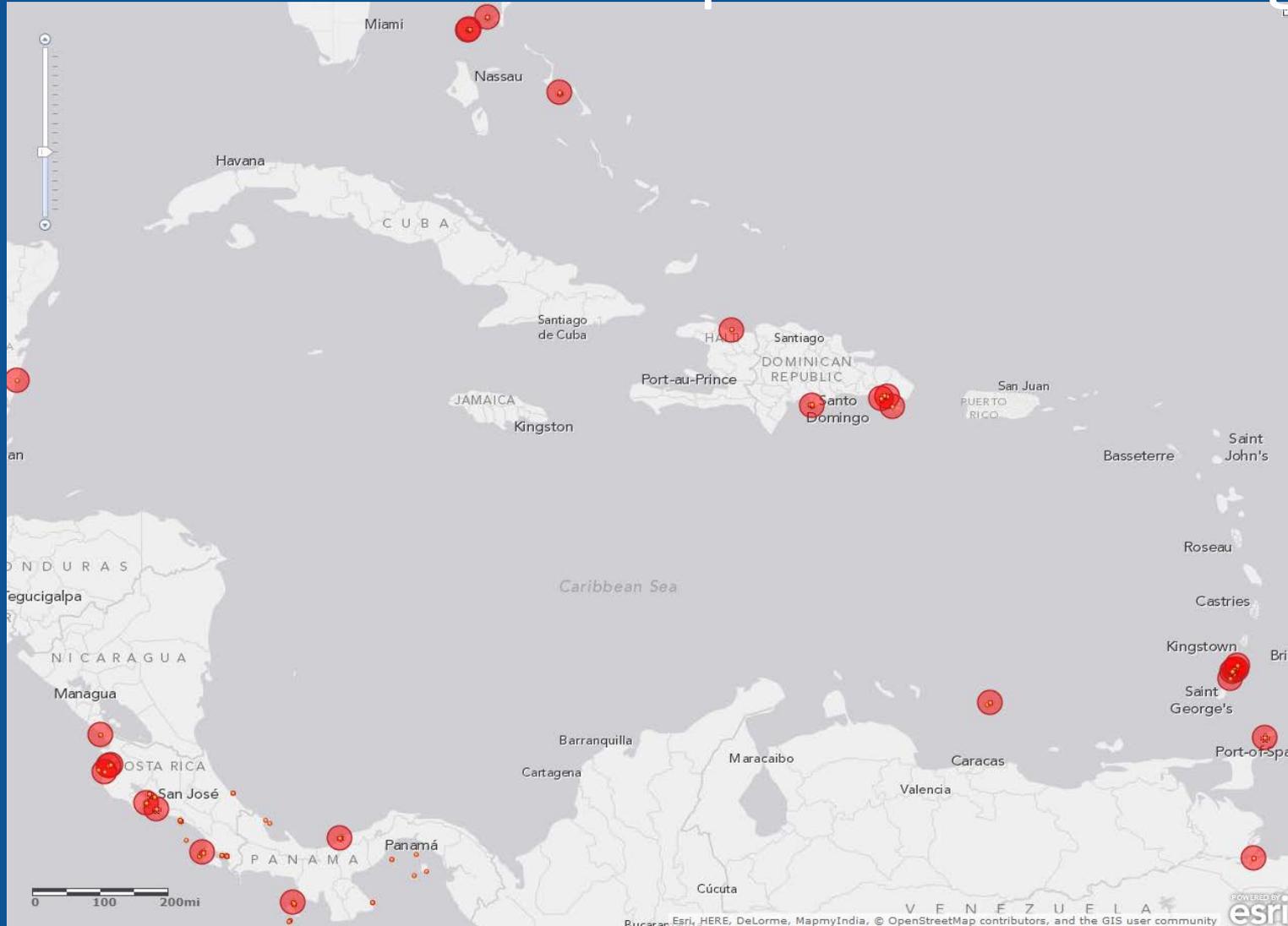
Density of Moored and Anchored Passenger Ships in Caribbean Sea



Large Passenger Ships Moored and Anchored vs. ENC Bands 4-6



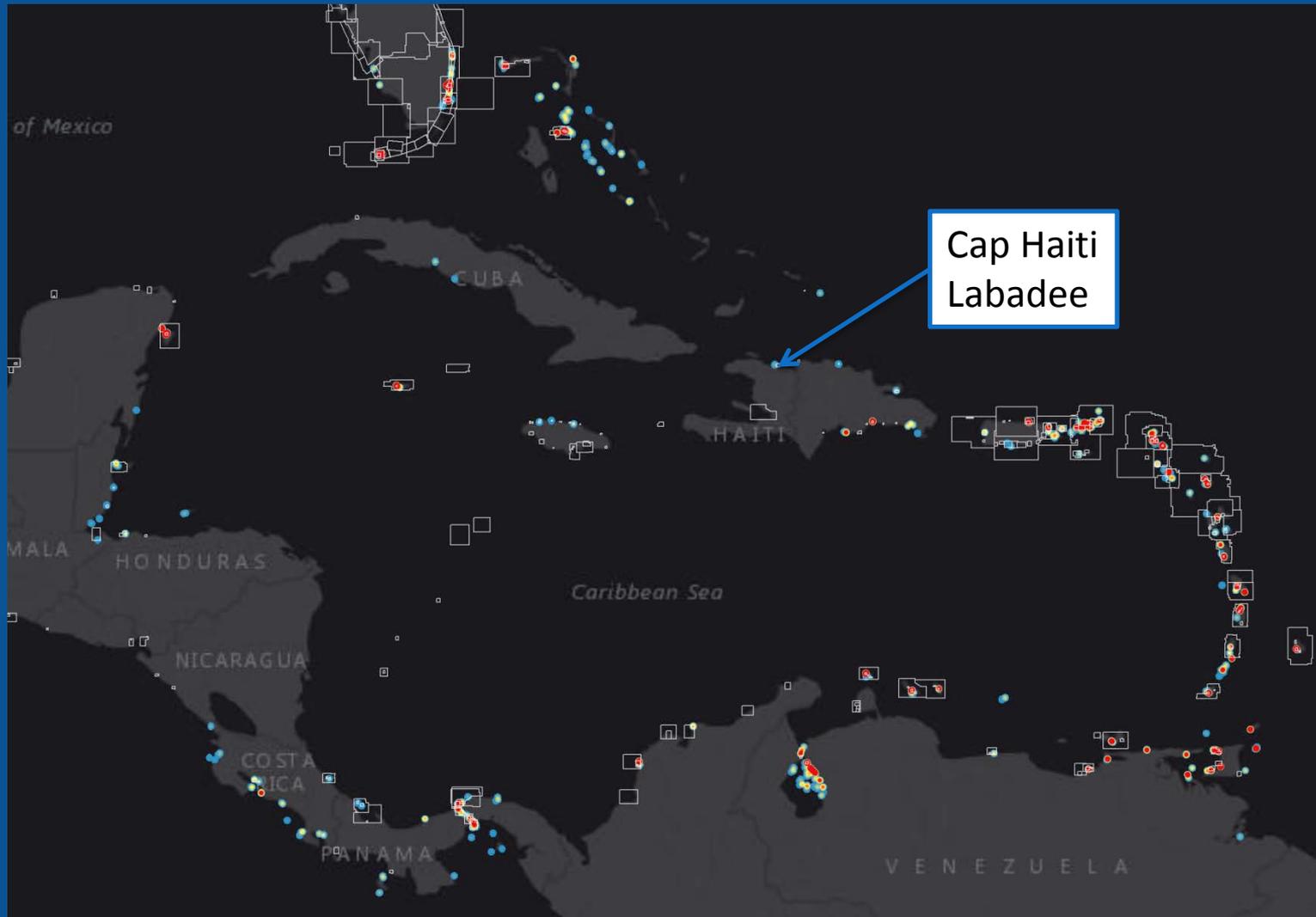
27 Ports without adequate ENC Coverage



For Example...



Labadee – a missed opportunity



A missed opportunity?



Labadee, Haiti



Royal Caribbean Webpage - Labadee

The screenshot shows the Royal Caribbean International website interface. At the top left is the Royal Caribbean International logo. To the right are links for 'Login', 'My Cruises', 'United States', and 'Change Country'. Below these is a 'Call Us (866) 562-7625' button and a search bar. A yellow navigation bar contains links for 'PLAN A CRUISE', 'CRUISE DEALS', 'BEFORE YOU BOARD', 'ALL ABOUT CRUISING', 'CUSTOMER SUPPORT', and 'CROWN & ANCHOR SOCIETY'. Below the navigation bar is a breadcrumb trail: 'Plan a Cruise > Ports > Ports of Call'. A 'SIGN UP FOR ROYAL DEALS' button and social media share icons (SHARE, email, twitter, facebook) are also present. The main content area features a large image of a Royal Caribbean cruise ship at sea and a scenic view of Labadee, Haiti, with a ziplining activity. The text 'LABADEE, HAITI Port of Call' is prominently displayed. Below the image is a descriptive paragraph about Labadee, Haiti, and a 'FIND CRUISES SAILING TO THIS PORT' button.

Royal Caribbean INTERNATIONAL

Login My Cruises United States Change Country

Call Us **(866) 562-7625** Search

PLAN A CRUISE CRUISE DEALS BEFORE YOU BOARD ALL ABOUT CRUISING CUSTOMER SUPPORT CROWN & ANCHOR SOCIETY

Plan a Cruise > Ports > Ports of Call SIGN UP FOR ROYAL DEALS SHARE

LABADEE, HAITI

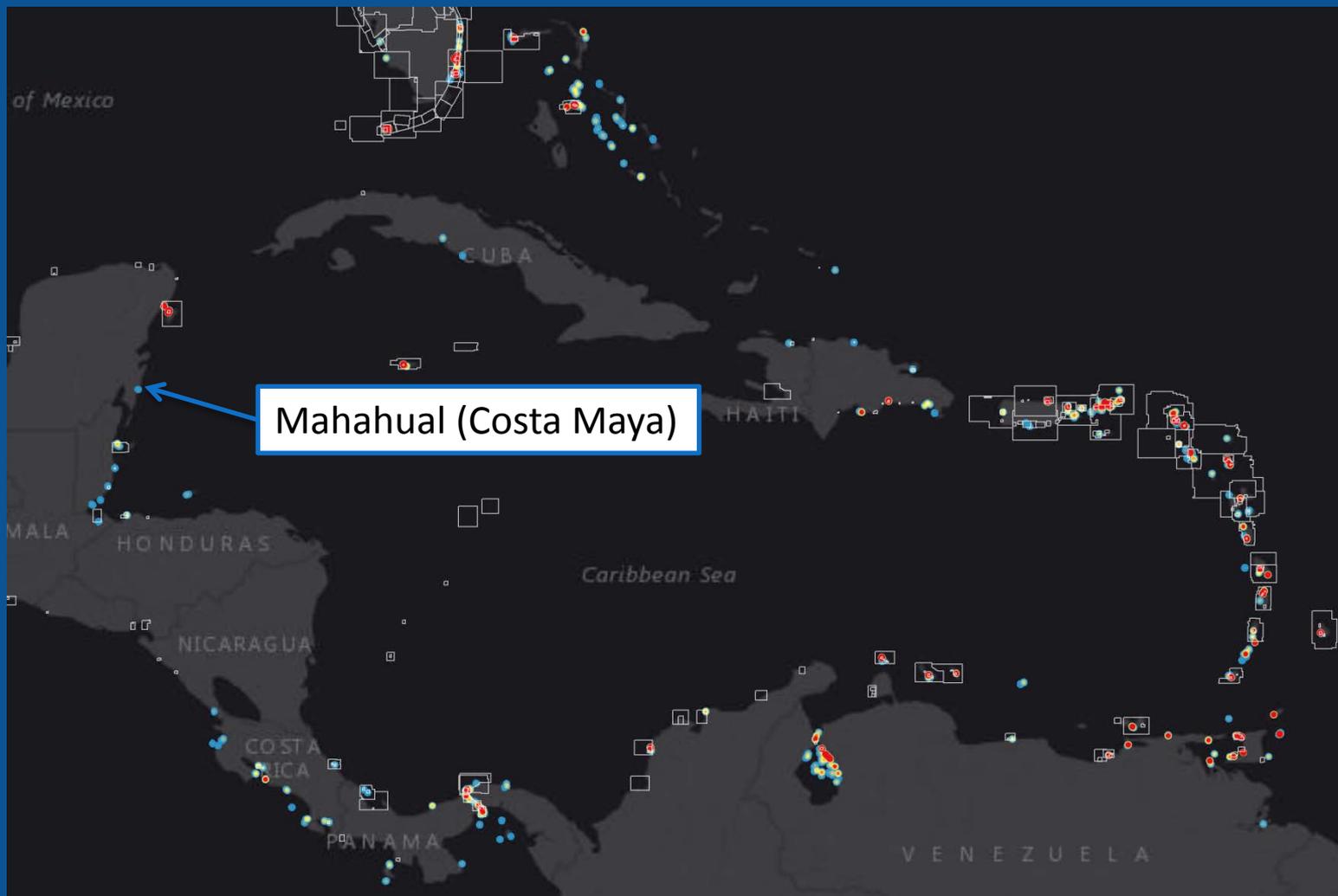
Port of Call

Labadee, Haiti

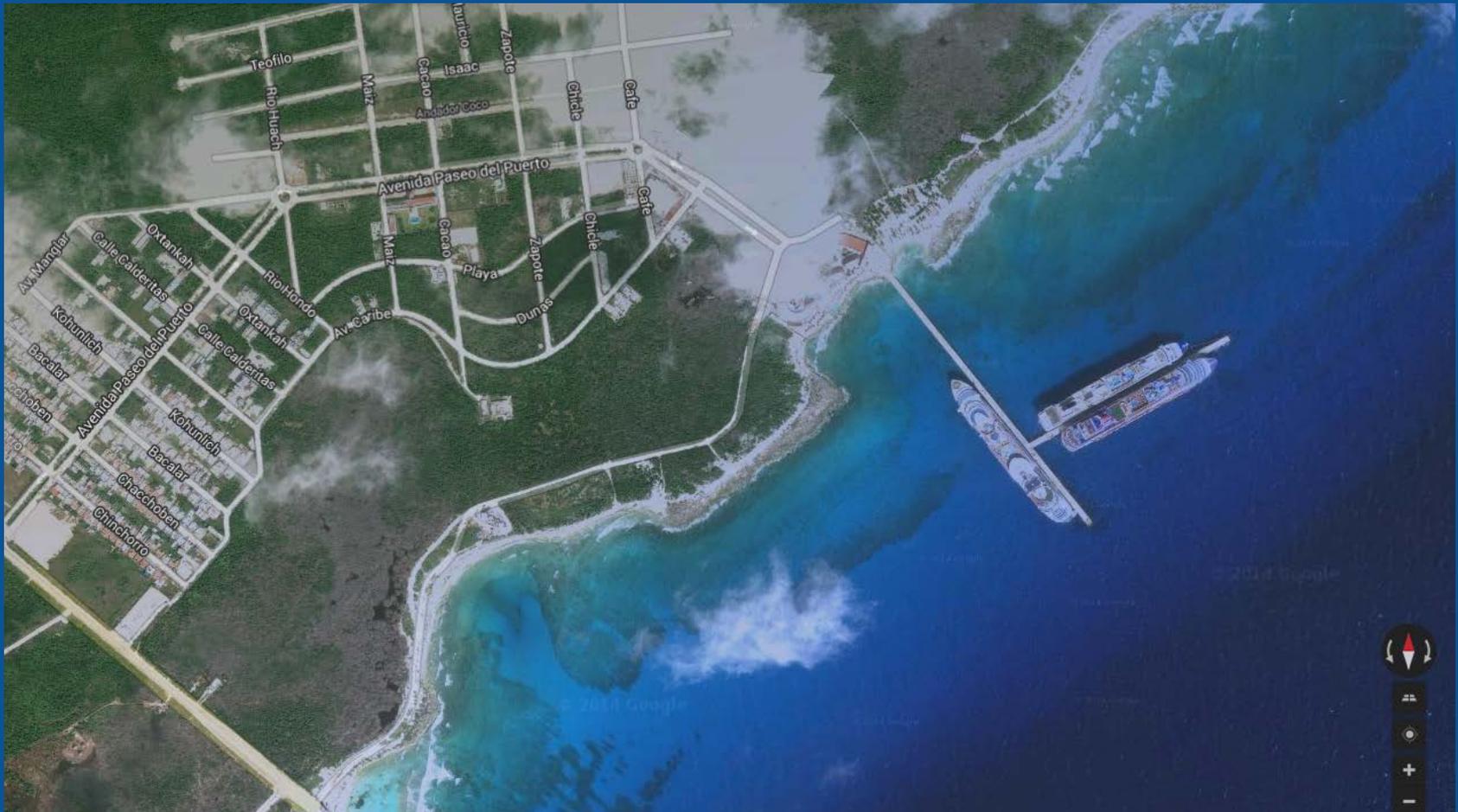
Only Royal Caribbean can take you to the private beach destination of Labadee. Our private paradise sits on the north coast of Haiti, surrounded by beautiful mountain slopes and exotic foliage. This exclusive destination offers pristine beaches, breathtaking scenery, incredible thrills and spectacular water activities. Regardless of where you go, you'll find yourself embraced by the beautiful landscape. Labadee's native charm, along with its natural beauty, make this a destination not to be missed. It's impossible to choose just one thing that's special about Labadee. The inviting beach, coral reefs and exciting amenities provide a perfect place to relax and have fun.

FIND CRUISES SAILING TO THIS PORT

Costa Maya, Mexico



Costa Maya, Mexico



Where do we go from here?

- Recommendations:
 - Discuss with CLIA (Cruise Lines International Association)
 - Possibly share hydrographic survey data with chart producing countries
 - Conduct hydrographic risk assessments to prioritize urgency of ENC production
 - Incorporate identified ports into larger priority port database

www.nauticalcharts.noaa.gov

Marine Chart Division

John.nyberg@noaa.gov

Anthony.r.klemm@noaa.gov



Office of Coast Survey