

# OCEAN DUMPING

ANNA BARFORD PRESENTS TO VICTORIA CITY COUNCIL  
10 JUNE 2021

1

## CANADA SHIPPING CAMPAIGN

- ANNA BARFORD (SHE/HER), CANADA SHIPPING CAMPAIGNER AT STAND.EARTH
- FOCUS ON PREVENTING DUMPING AND CLOSING REGULATORY OPPORTUNITIES FOR VESSELS POLLUTE THE OCEAN
  - 3 WASTE STREAMS OF CONCERN: GREYWATER, SEWAGE, AND SCRUBBER WASHWATER
- INTERNATIONAL COUNCIL ON CLEAN TRANSPORTATION PUBLISHED A GLOBAL SCRUBBER REPORT ON USE AND DISCHARGES ON APRIL 29, 2021

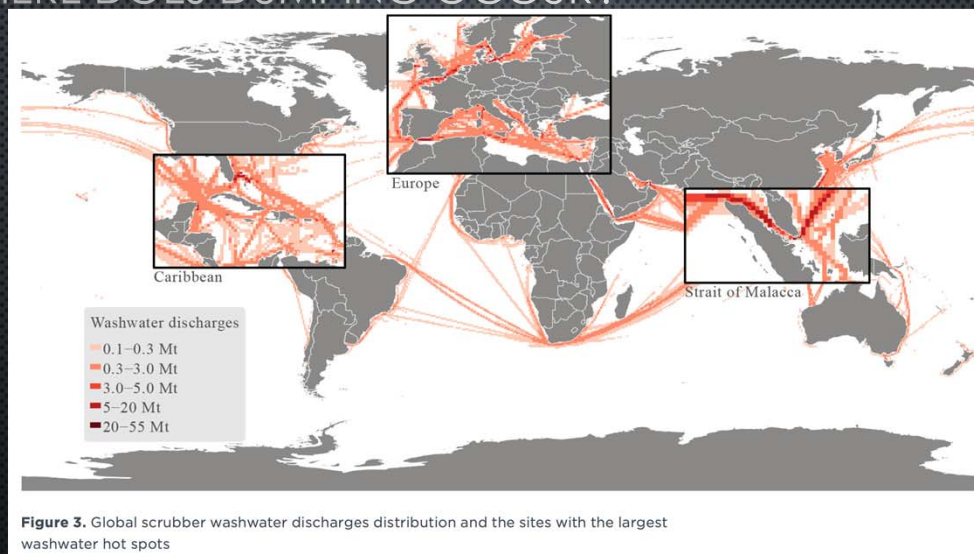
2

## EXHAUST GAS CLEANING SYSTEMS (SCRUBBERS):

- SCRUBBERS "WASH" THE EXHAUST PLUME WITH SEA WATER, TO COLLECT SULPHUR
  - DUMPING OF WASHWATER CONTRIBUTES DIRECTLY TO OCEAN ACIDIFICATION
  - WASHWATER CONTAINS TOXIC AND CARCINOGENIC PAH'S AND HEAVY METALS, CONTRIBUTING TO CONTAMINANT BURDEN OF SEDIMENT, FILTER FEEDING ORGANISMS LIKE SHELLFISH, AND SOUTHERN RESIDENT KILLER WHALES
- PERMITTED AS A WORK-AROUND TO GLOBAL MARINE FUEL STANDARDS ADDRESSING SULPHUR CONTENT
  - VOLUNTARY POLLUTION CREATION DEVICES
  - LOCK IN THE USE OF THE BOTTOM OF THE BARREL FOSSIL FUEL HEAVY FUEL OIL (HFO)
  - SINCE 2008 SCRUBBERS HAVE INCREASED SIGNIFICANTLY IN THEIR USE – UP TO 4,341 ESTIMATED IN USE AT THE END OF 2020, 83% MORE THAN IN 2018

3

## WHERE DOES DUMPING OCCUR?



4

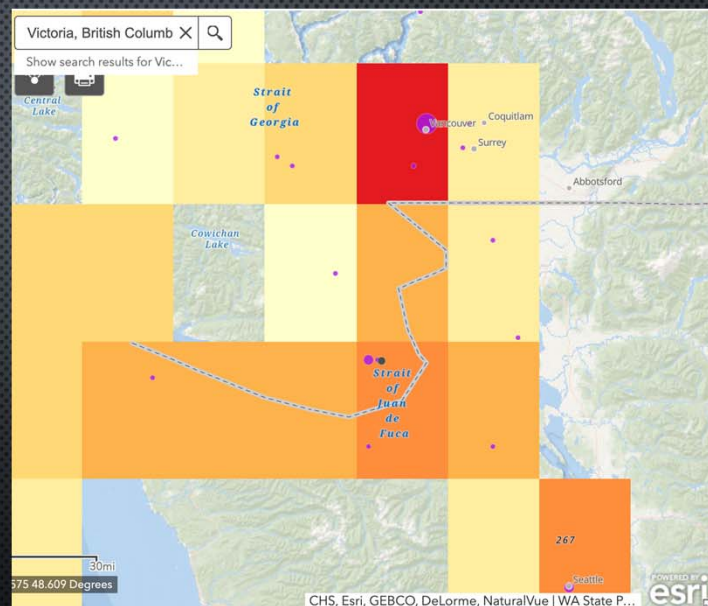
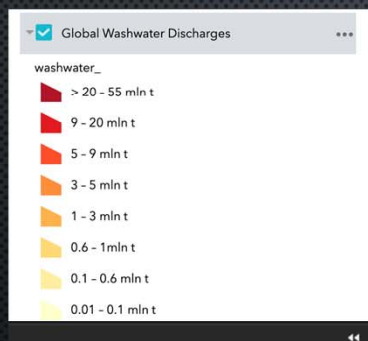


## KEY TAKE AWAYS:

- **OVER 100 MILLION TONNES** OF ACIDIC THERMAL CARCINOGENIC POLLUTION IS DUMPED EVERY YEAR OFF CANADA FROM SHIPS, GLOBALLY **10 GIGATONNES OF WASHWATER**
  - **OVER 5 MILLION TONNES WAS DUMPED IN VANCOUVER – THE #4 MOST DUMPED UPON PORT GLOBALLY**
- 80% OF DUMPING OCCURRED WITHIN THE EXCLUSIVE ECONOMIC ZONE OF NATION STATES
- PORT MEASURES (SUCH AS SHORE POWER, OR PORT BASED BANS) ARE NOT SUFFICIENT TO PREVENT SIGNIFICANT DUMPING
  - MALAYSIA, INDONESIA, AND SINGAPORE PROHIBIT OPEN-LOOP SCRUBBERS IN THEIR PORTS, BUT THIS DOES NOT EXTEND INTO THE STRAIT OF MALACCA, WHICH PASSES THROUGH EACH COUNTRY'S TERRITORIAL SEAS AND WHICH IS EXPECTED TO RECEIVE THE LARGEST CONCENTRATIONS OF WASHWATER DISCHARGES IN THE WORLD.
  - SHORE POWER WOULD ONLY PREVENT 5% OF DUMPING WITHIN 1 NAUTICAL MILE OF VANCOUVER
  - THE COAST OF CALIFORNIA IS PROTECTED BY A FUEL MANDATE MAKING SCRUBBERS OBSOLETE

5

- Esquimalt harbour: 391,777 Tonnes
- Victoria Harbour: 166,887 Tonnes
- Seattle: 469,386 Tonnes



6

## ACTION FOR CITY OF VICTORIA COUNCIL

- THIS IS A COUNCIL THAT HAS ADDRESSED ENVIRONMENTAL, AND IN PARTICULAR, OCEAN PROTECTION, INCLUDING ADVOCATING FOR SHORE POWER
  - OCEAN DUMPING FROM SCRUBBERS NEEDS TO BE ADDRESSED BOTH AT BERTH AND IN THE TERRITORIAL WATERS OF CANADA — REQUIRING FEDERAL ACTION
- PASS A RESOLUTION CALLING ON TRANSPORT CANADA TO TAKE ACTION ON DUMPING FROM VESSELS, INCLUDING STOPPING THE USE OF SCRUBBERS, MANDATING THE FUEL STANDARD WITHOUT THE SCRUBBER WORK AROUND, AS CALIFORNIA HAS DONE

7

## QUESTIONS/CONTACT

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8