The Root Causes of Maritime Piracy and What can be done about it?

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Research Team

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PIRATE

LANDS

BRANDON PRINS

BOWERMANCE AND MARITIME PIRAC

OVERVIEW

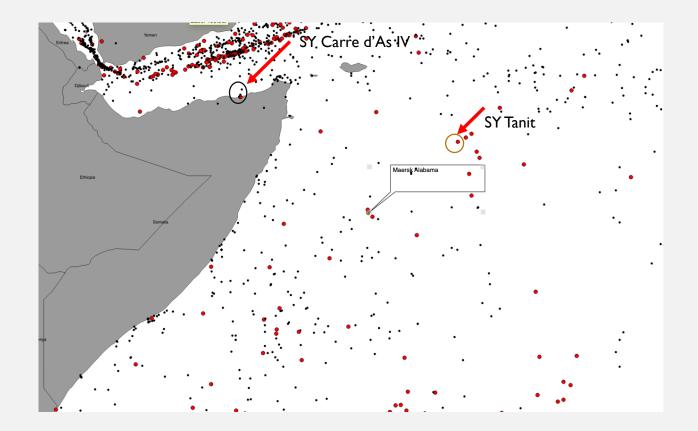
- Origins of the Project
- Visualizing Sea-Piracy
- Critical Drivers of Maritime Piracy
- The Importance of Local Conditions
- What can be done?



Photo credit: Eric Frécon

ORIGINS OF THE PROJECT

- The origins of the project center around the Maersk Alabama incident in April 2009
- Led to data collection, initial analyses, and grant proposals
- Also led to extensive primary and secondary research on maritime piracy, crime, and non-state actors



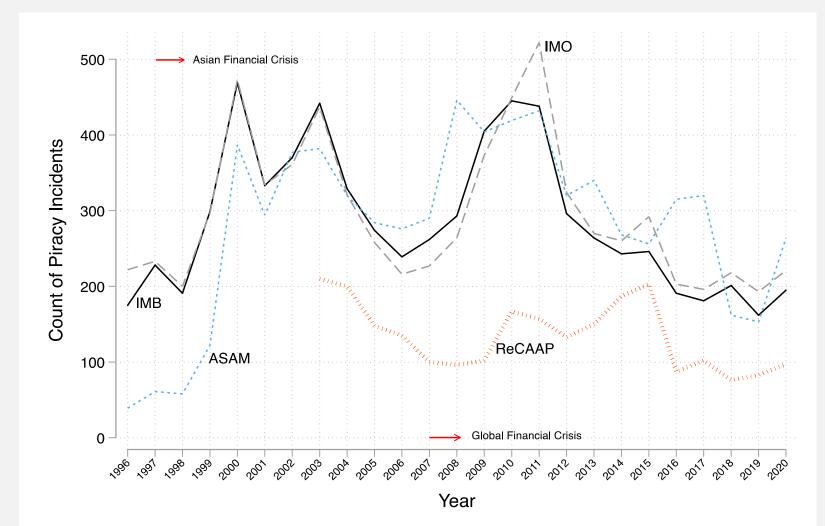
OUR THEORETICAL CONTRIBUTION

- Local environment critical for understanding maritime crime
 - Infrastructure remains important for criminal endeavors
 - Economic activity
 - Workforce
 - Governance also key
 - Capacity
 - Corruption

VISUALIZING SEA-PIRACY

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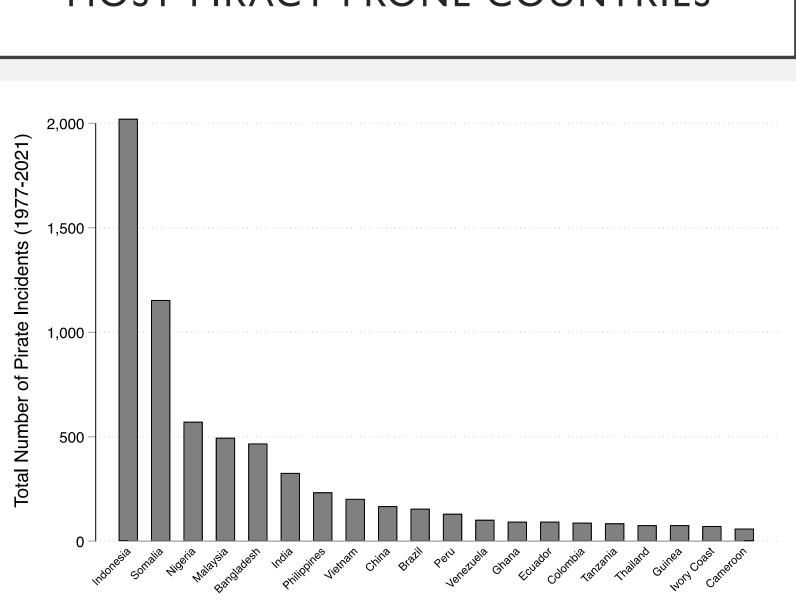
DATA COLLECTION



- Compare 3 datasets
- Identify duplicates
- Identify unique events
- Use vessel name
- Use geometry information
- Still requires some spot checking

GLOBAL HEAT MAP

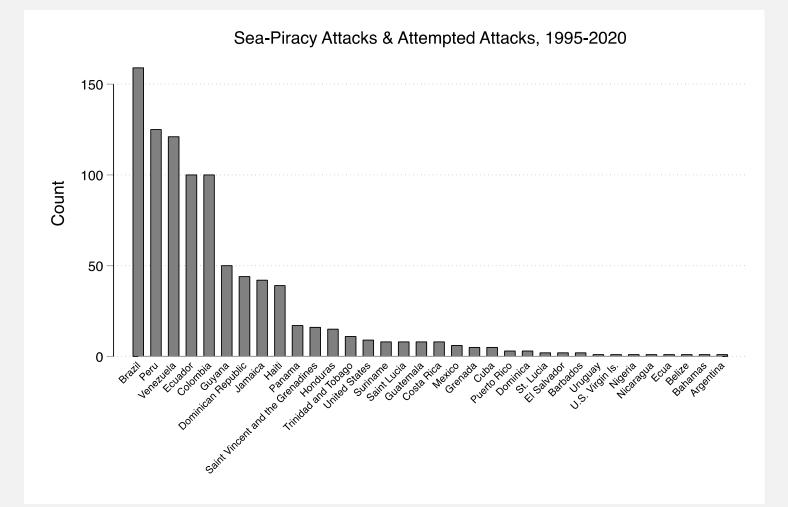
	Region	% Piracy Cases 1995-2021	Figure: Map of piracy, from MPELD	
	North/Central America	3.1%	(1995-2017)	
	South America	7.64%	 Four primary Hotspots 1. Malacca and Singapore Straits 2. Greater Gulf of Aden 3. Gulf of Guinea 4. Bangladesh 	
	Europe	0.74%		
	Africa • West Africa • East Africa	34.95% • 15.57% • 18.43%		
	Middle East/North Africa	3.50%		
	South Asia	12.69%	5. South America	
	SE Asia/Oceania	37.39%		



MOST PIRACY PRONE COUNTRIES

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PIRACY PRONE COUNTRIES IN WESTERN HEMISPHERE

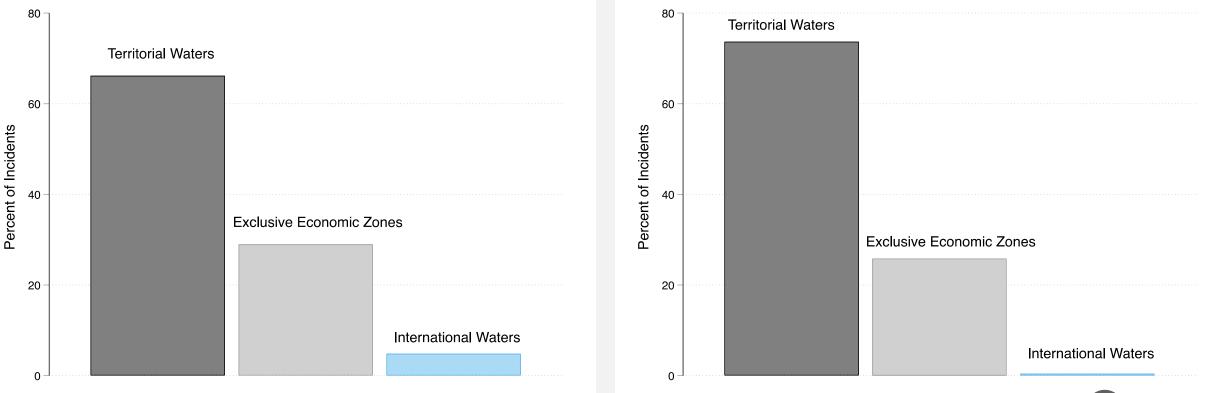


- South America is the location of most piracy and armed robbery on ships in the western hemisphere.
- 6 of the 10 most pirated countries in the western hemisphere are located in South America
- Dominican Republic, Haiti, Jamaica, and Panama are the other countries experiencing piracy.
- But fairly large decrease in piracy incidence going from top 5 to bottom 5

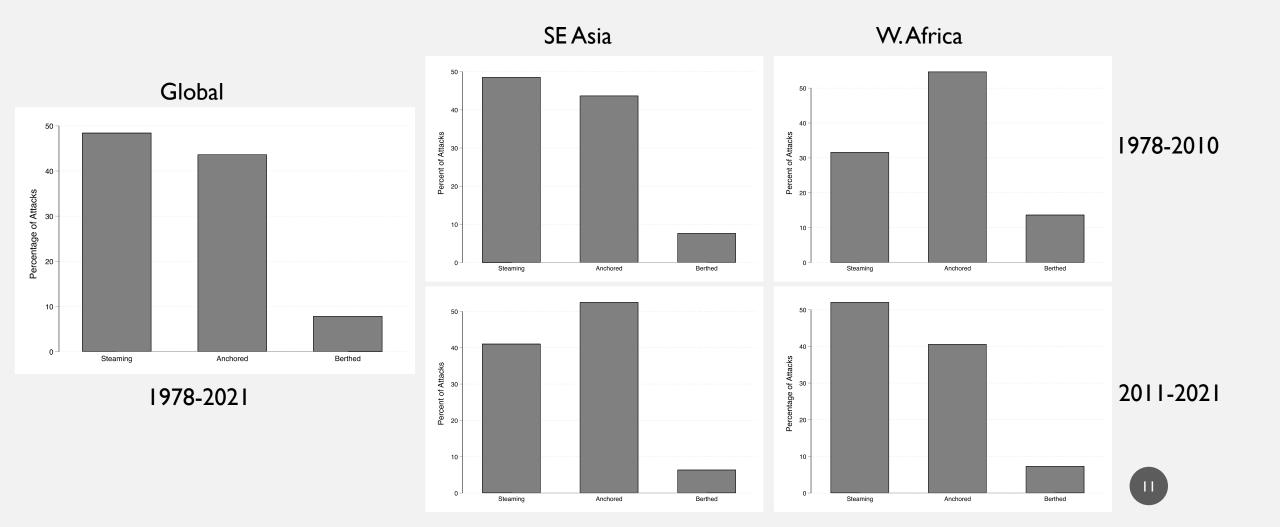
LOCATION OF PIRATE ATTACKS

Global 1995-2020

Southeast Asia 1995-2020



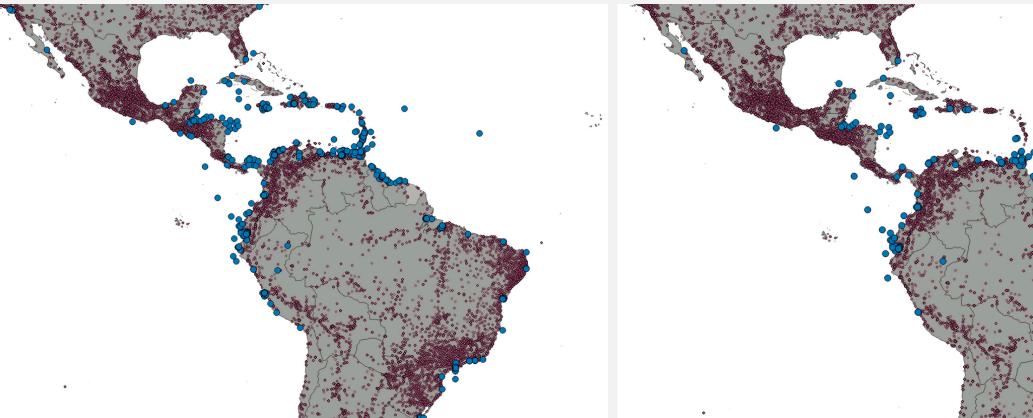
SHIP STATUS WHEN ATTACKED



THE GEOGRAPHY OF SEA-PIRACY IN THE AMERICAS

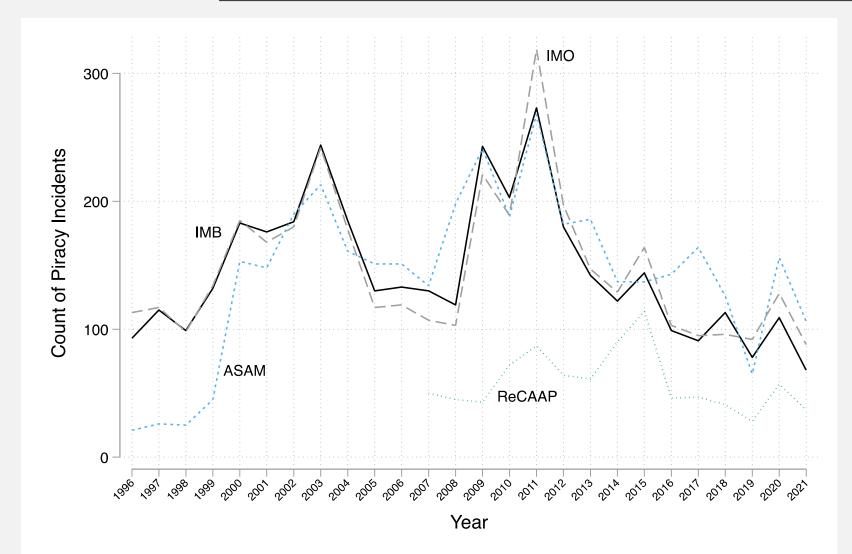
Steaming Incidents (188), 1995-2020





Note: In comparison, there were ~3,364 incidents and 1,146 steaming incidents in SE Asia over same time period

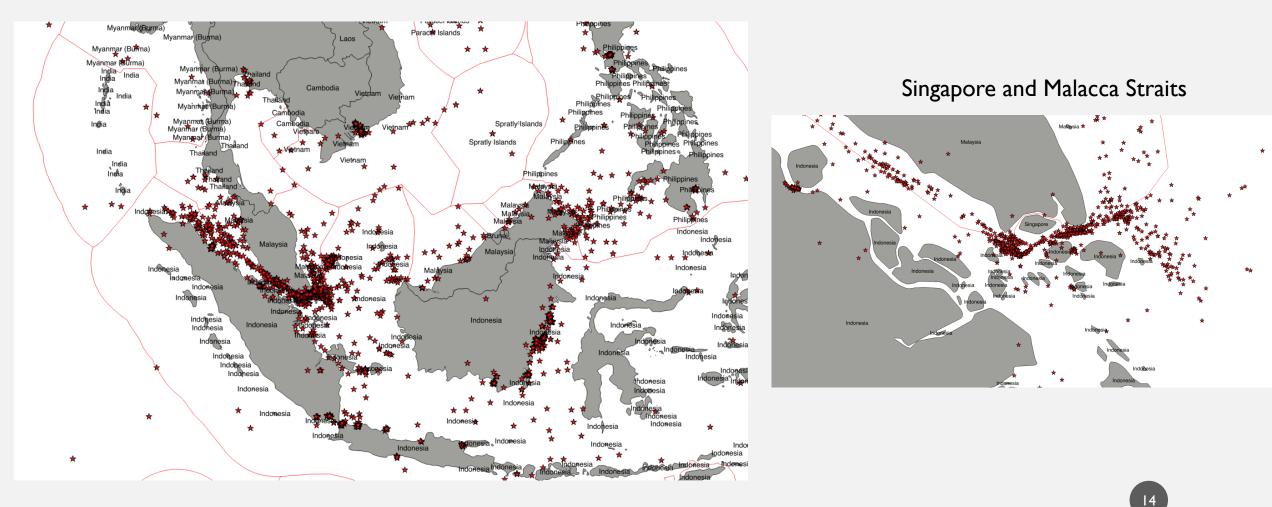
DATA COLLECTION



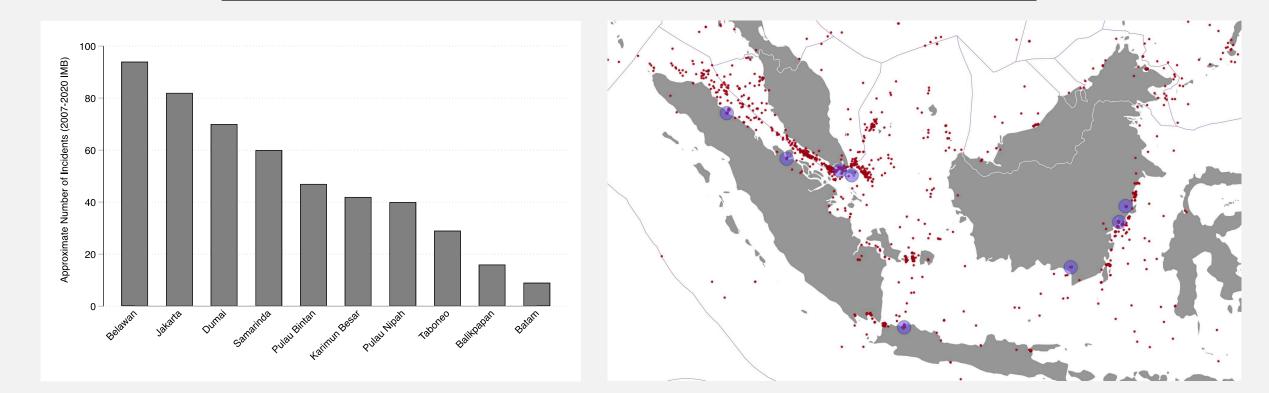
January-June Data

- Historic lows globally in 2021 across two of three datasets
 - ASAM found slightly lower piracy count in 2018
- ReCAAP found decrease in piracy from 2020, but slightly more cases than 2019
- However, no Category I cases in 2021 and only one Category 2 incident





MOST DANGEROUS PORTS IN INDONESIA



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TOP PIRACY-PRONE PORTS IN THE AMERICAS SINCE 2015

Callao, Peru

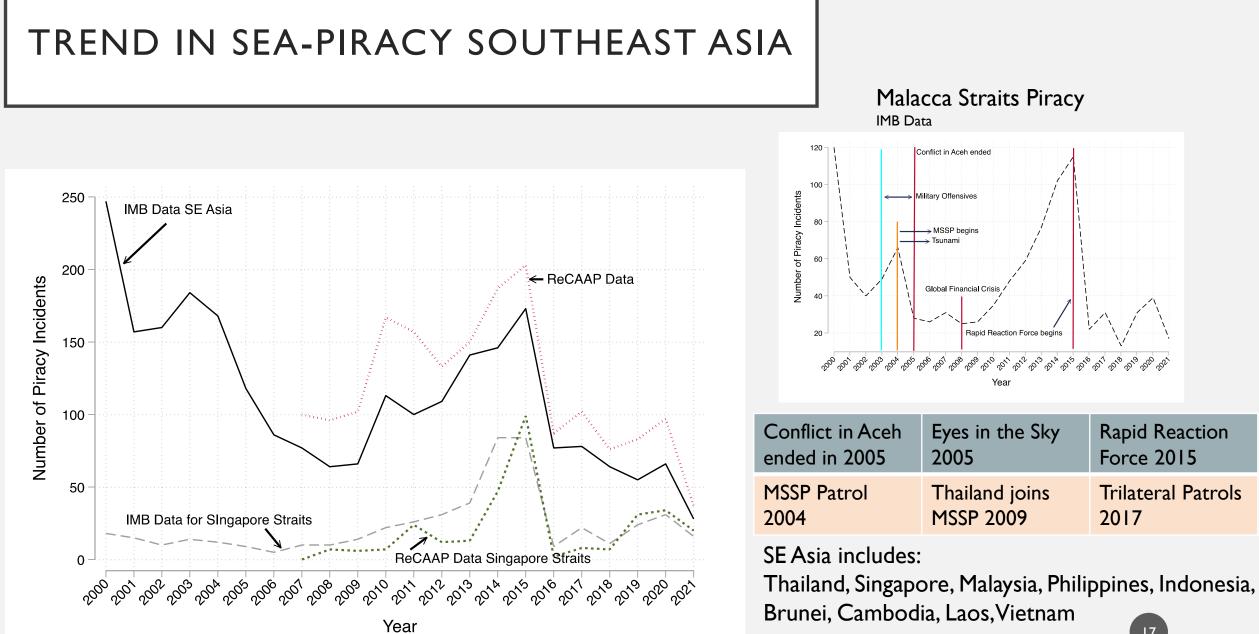
Puerto Jose, Venezuela

Puerto La Cruz, Venezuela

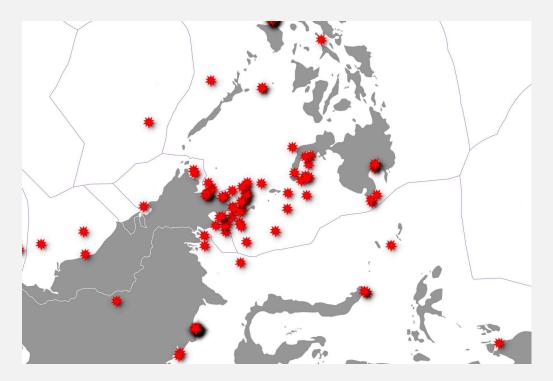
Macapa, Brazil

Guayaquil, Ecuador

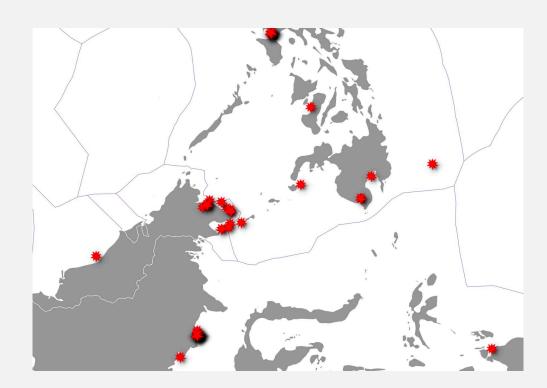
Port Au Prince, Haiti



PIRACY IN THE SULU & CELEBES SEAS IMPACT OF TRILATERAL PATROLS



Years 2015-2017 (55 piracy incidents)



Years 2018-2021 (21 piracy incidents)

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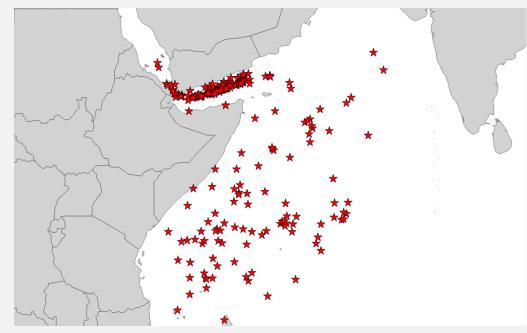
EXISTING EXPLANATION FOR SEA-PIRACY

DRIVERS OF MARITIME PIRACY

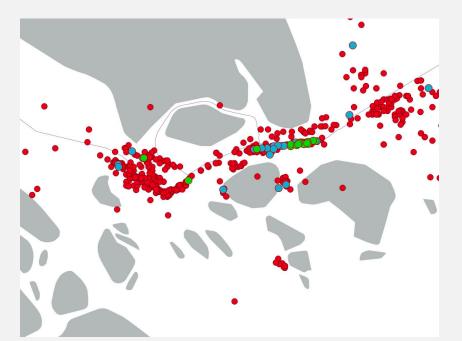
- Geography
- Grievance
- Conflict
- Opportunity

GEOGRAPHY

CHOKEPOINTS ATTRACT PIRATES



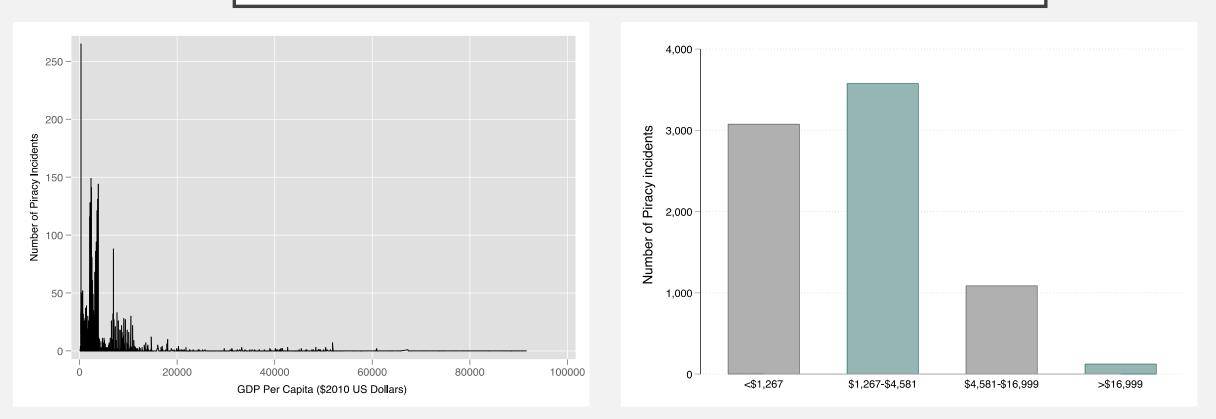
Bab el Mandab Chokepoint, Piracy 2009



Singapore Straits, 2011-2021 2020 2021

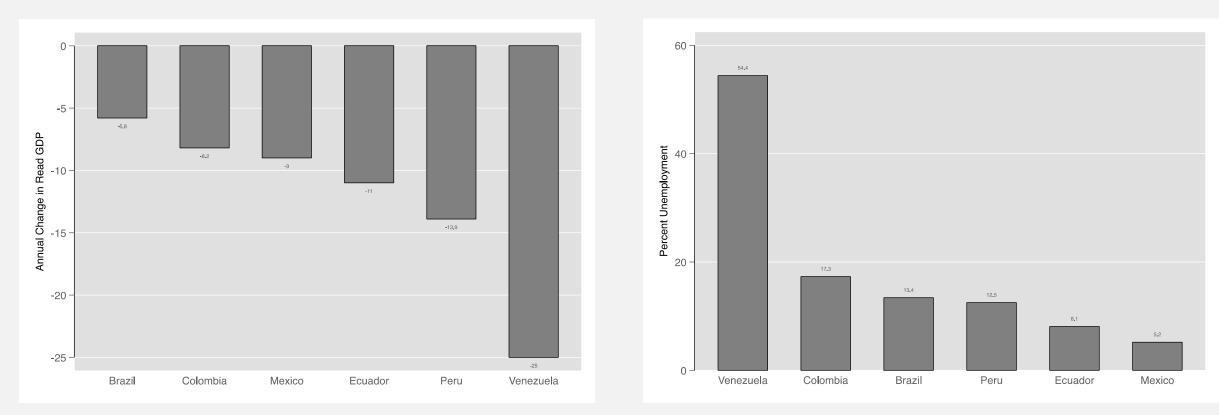
GRIEVANCE

GRIEVANCE



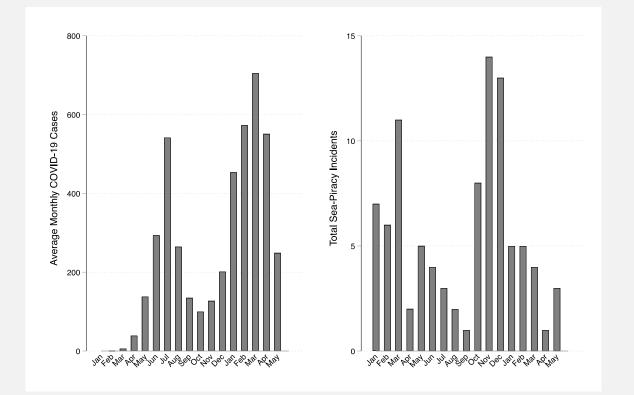
Poverty Joblessness IUU Fishing Environmental Degradation

ECONOMIC EFFECTS OF COVID 2020 PROJECTIONS

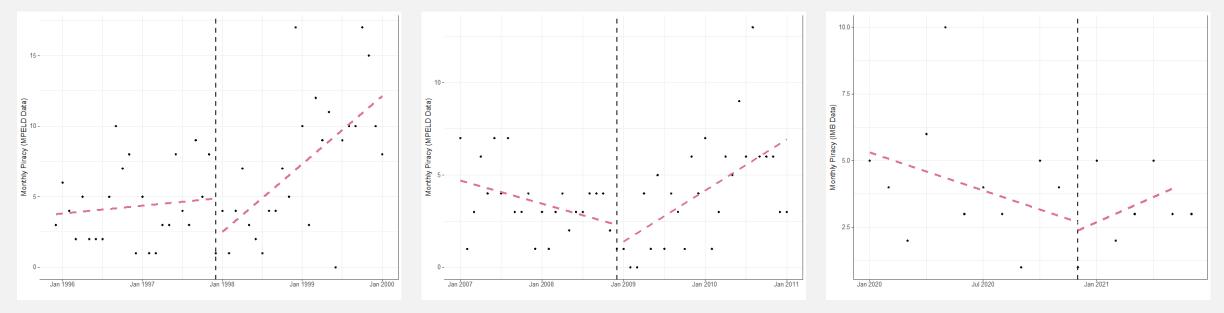


Source: WTO

AVERAGE MONTHLY COVID-19 CASES AND TOTAL PIRACY INCIDENTS, GULF OF GUINEA COUNTRIES (2020-2021)



INDONESIAN SEA-PIRACY CONSEQUENCES FROM FINANCIAL CRISES



Asian Financial Crisis 1997

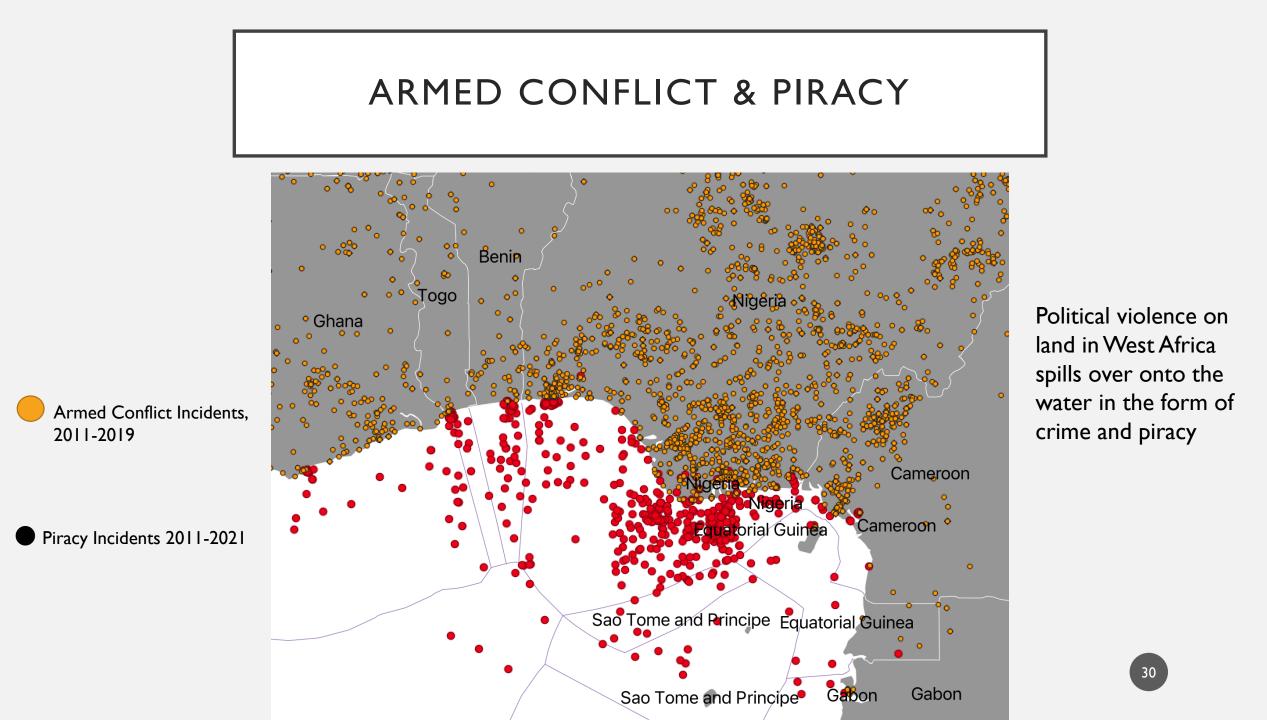
Global Financial Crisis 2008

COVID-19 Pandemic 2020

IUU FISHING REMAINS A CONCERN

- Fishing is \$400 billion global industry
- Important source of protein for half the world's population
- 93% of fish stocks are fully exploited, over-exploited, or depleted
- China has largest fishing fleet
- China's boats are globally everywhere
 - Near Galapagos Islands and Ecuador unable to respond requested US assistance to protect its EEZ
 - Fishing vessels then simply moved south in Chile's EEZ
- Need multinational effort
- Need to prosecute ship captains and hold companies responsible
- Need greater management of resources in EEZs

POLITICAL VIOLENCE

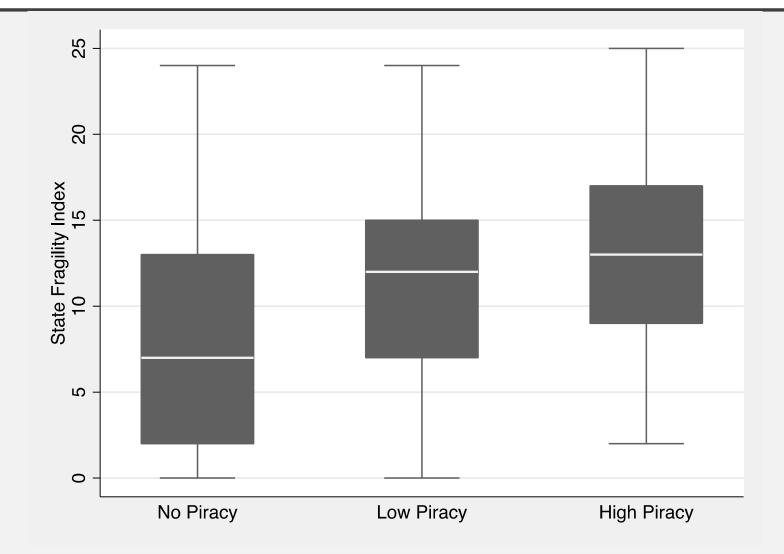


VIOLENCE ASSOCIATED WITH MARITIME PIRACY INCIDENTS

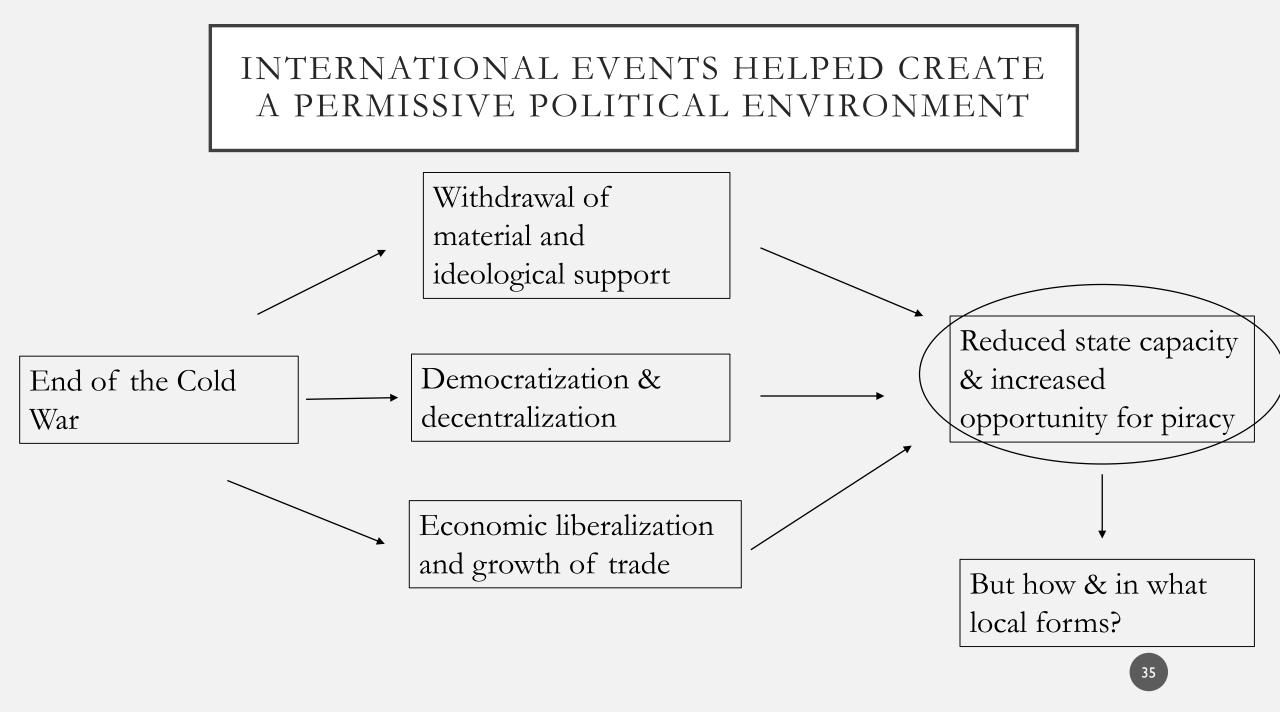


OPPORTUNITY

INCREASING STATE WEAKNESS LEADS TO MORE SEA-PIRACY (ON AVERAGE)



THE IMPORTANCE OF LOCAL GOVERNANCE CONDITIONS



HOW GOVERNANCE MATTERS FOR EXPLAINING MARITIME PIRACY

What Local Conditions Benefit Piracy?

• Markets and Infrastructure

 \rightarrow Like all businesses, pirates need to be close to economic activity

 \rightarrow Markets and infrastructure for upfront investments, recruitment, and backend of operations

• Potential for Collusion

 \rightarrow Unlike other businesses, pirates need protection

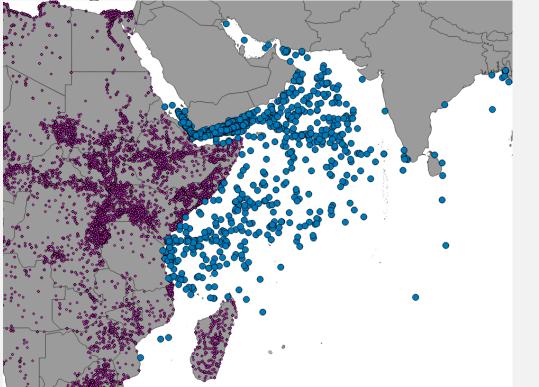
 \rightarrow Active or tacit support from local state actors and the community

WHAT CAN BE DONE TO REDUCE MARITIME PIRACY?

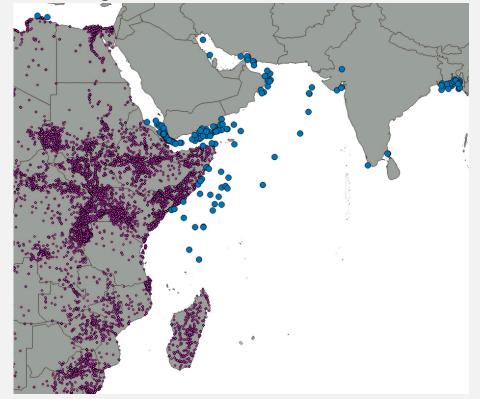
- Capacity Building
 - Can be expensive when focused on counter-piracy
 - Improvements in local governance probably more efficient
- Partnerships
 - Information-sharing (ReCAAP, ISCs, Djibouti and Yaounde Codes)
 - Naval Exercises
- BMPs
 - Effective
 - Some are costly
- Naval Missions
 - Expensive
 - Without other grievance-reducing policies, might just lead to substitution
- Address IUU Fishing
- Improve working conditions in fishing industry
- Mitigate effects of financial crises and public health emergencies

SEA-PIRACY IN THE GREATER GULF OF ADEN

Steaming incidents 2008-2012



Steaming incidents 2013-2020



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EU Operation Atalanta (December 2008 to present)NATO Ocean Shield (August 2009- November 2016)CTF 151 (January 2009-present)Piracy-specific BMP (version 2 August 2009)

CONCLUSIONS

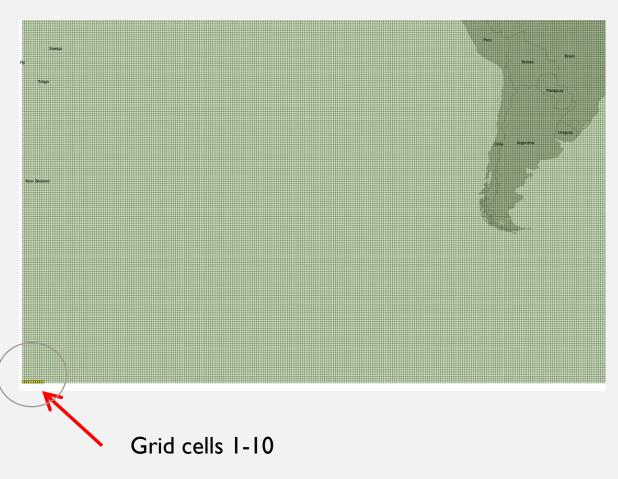
- Tackling IUU fishing must be a priority
- Coast-guard capacity helps deter criminal activity
- Hot pursuit needs to be negotiated by countries in the region
- Collusion between substate actors-crime deserves more attention
- Ship hardening still works
- Countries must better prepare for economic recessions and public health emergencies

Thank-you

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GRID-CELL DATA

wkt_geom	gid	xcoord	ycoord	col	row
Polygon ((-180 -90, -180 -89.5, -179.5 -89.5, -179.5 -90, - 180 -90))	1	-179.75	-89.75	I	I
Polygon ((-179.5 -90, -179.5 -89.5, -179 -89.5, -179 -90, - 179.5 -90))	2	-179.25	-89.75	2	I
Polygon ((-179 -90, -179 -89.5, -178.5 -89.5, -178.5 -90, - 179 -90))	3	-178.75	-89.75	3	ı
Polygon ((-178.5 -90, -178.5 -89.5, -178 -89.5, -178 -90, - 178.5 -90))	4	-178.25	-89.75	4	I
Polygon ((-178 -90, -178 -89.5, -177.5 -89.5, -177.5 -90, - 178 -90))	5	-177.75	-89.75	5	ı
Polygon ((-177.5 -90, -177.5 -89.5, -177 -89.5, -177 -90, - 177.5 -90))	6	-177.25	-89.75	6	ı
Polygon ((-177 -90, -177 -89.5, -176.5 -89.5, -176.5 -90, - 177 -90))	7	-176.75	-89.75	7	I
Polygon ((-176.5 -90, -176.5 -89.5, -176 -89.5, -176 -90, - 176.5 -90))	8	-176.25	-89.75	8	I
Polygon ((-176 -90, -176 -89.5, -175.5 -89.5, -175.5 -90, - 176 -90))	9	-175.75	-89.75	9	1
Polygon ((-175.5 -90, -175.5 -89.5, -175 -89.5, -175 -90, - 175.5 -90))	10	-175.25	-89.75	10	1/
175.5 -70))	10	-175.25	-07.75	10	•



259,200 grid cells globally

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EVIDENCE FROM INDONESIA

