

# Red Sea Crisis: The Houthi Problem

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#### Overview



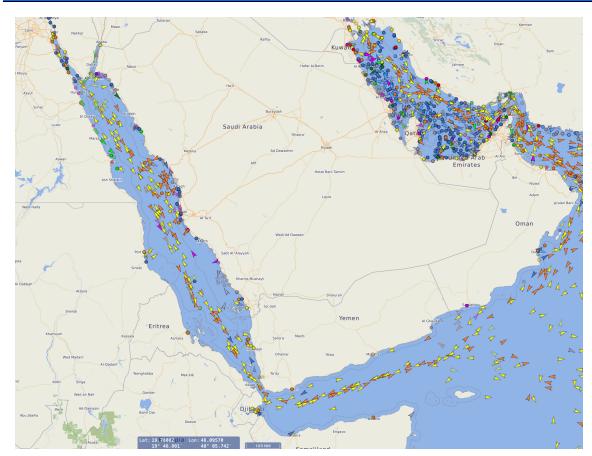
- The Region
- Yemeni civil war
- Who are the Houthis?
- Houthi weapons
- Targeting
- Effectiveness
- Roles and Missions
  - Traditional roles of a Navy
  - Sea Denial
  - Iran's past antishipping campaign
  - Houthi's goals
- Ways it can End





B21 Anti-Ship Cruise Missile – Soviet era export P-21/22 Rubezh [SS-N-2c/d Styx]

### **The Region - Shipping**



♦ 90% of finished goods and raw materials are shipped by sea.

Approximately 12% of global trade goes through the Red Sea.

- About 30% of global container ship traffic transits the Red Sea.
- About 9% of global petroleum tanker traffic transits the Red Sea.



### **The Region - Yemen**

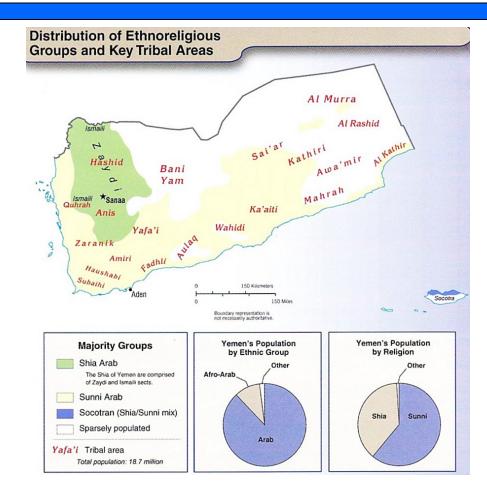


+ The Republic of Yemen is a very young and fragile country.

- Formed on 22 May 1990 with Ali Abdullah Saleh as president.
- Religious discrimination was the main stressor that prevented a unified nation.

#### Yemen





• Yemen is an Arab nation that is almost totally Muslim –  $\approx$ 99.5%.

- 60-65% are Shafi'i Sunni, while the Zaydi Shia make up 35-40%.
  - Jewish, Christian, Hindu, and Bahá'í population is a fraction of one percent.

## Yemeni Civil War

Zaydi Shiites are mostly among the tribes that live in the northern mountainous regions.

- Shiites are a minority in the Muslim world, and Zaydi's are a minority among Shiites.

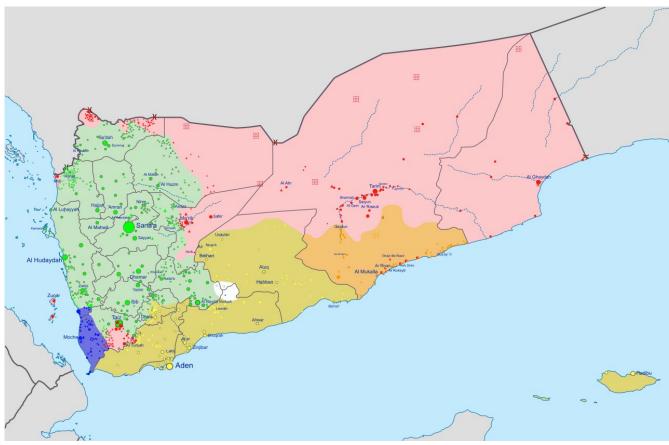
Zaydi resisted Saleh's polices as well as growing Sunni influence.

- Bitter memory of Sept 1962 when Sunni Egyptian forces overthrew the Zaydi Imamate from the throne in North Yemen.
- Saleh's policies worked to further reduce Zaydi political power, essentially marginalized.
- Saleh's massive corruption stole billions from one of the world's poorest countries.
- Sunni Islam was making significant encroachments in the northern tribal areas.
- ▶ 2004 2010: Saleh and Houthi forces clash on and off.
- > 2011: Arab Spring in Yemen Nov 2011 Saleh transfers power to Hadi.
  - Vice President Abdrabbuh Mansur Hadi.

♦ 2014: Civil war begins with Houthi taking the Yemen capital of Sanaa.



#### Yemeni Civil War



 Republic of Yemen (recognized by United Nations), pro-PLC Yemeni Armed Forces and General People's Congress
Republic of Yemen, pro-PLC Southern Transitional Council
Republic of Yemen, pro-PLC Yemeni National Resistance
Republic of Yemen, pro-PLC Hadrami Elite Forces
Supreme Political Council, pro-SPC Yemeni Armed Forces, Houthi movement
Al-Qaeda in the Arabian Peninsula (AQAP)

### Who are the Houthis?



- The Houthi is a large Hamdanid tribe originating from Yemen's northwestern Saada province.
  - The "Houthi Movement" is largely a media creation based on being led first by Hussein al-Houthi, then his brother Abdul Malik al-Houthi.
  - Officially known as "Ansar Allah" "Supporters of God" or "Partisans of God"
- Originated as a religious movement in the 1990s a revival of Zaydi Islam but transformed into civil resistance, clashing with the government over corruption, religious discrimination, and the influence of Saudi Arabia (Sunni) and the U.S. in Yemeni affairs.
  - Sponsors are Iran and North Korea. Both supply arms, but Iran is also providing tactical intelligence and religious training for Houthi leaders, as well as, assigning IRGC advisors in Yemen.
    - Many of the Houthi weapons are of Iranian origin.

### Who are the Houthis?



- Hussein al-Houthi was the son of Badreddin al-Houthi, a prominent Zaydi politician and respected religious scholar.
- Hussein al-Houthi was deeply frustrated by the degrading political situation at the turn of the century.
  - He resented President Saleh's cooperation with the U.S. after 9/11.
- Hussein al-Houthi practiced Jarudi Zaydism that is closer to Iranian Twelver ideology.
  - He was the ideological powerhouse behind the transformation of the movement.
  - Houthi movement became radicalized after the invasion of Iraq in 2003.
- Official slogan: "God is the Greatest, Death to America, Death to Israel, A Curse Upon the Jews, Victory to Islam."
- With the death of Hussein al-Houthi by Yemeni armed forces in Sept 2004, the civil resistance turned into an outright insurgency.

#### **Current Crisis**







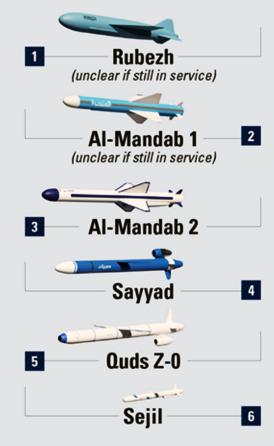
- 7 October 2023: Palestinian militant groups, mainly Hamas and Palestinian Islamic Jihad launched an unprecedented assault on Israel.
- Israel launched Operation Swords of Iron on 13 October followed by a fullscale invasion on 27 October.

Houthi respond by firing cruise missiles at Israel on 19 October.

- Announce on 14 November the intent to interdict Israeli ships in the Red Sea.
  - 19 November: Hijack the 48,710 GRT vehicle carrier *Galaxy Leader* Israeli owned.



#### **Houthis ASCMs**



#### **Houthi Anti-Ship Cruise Missiles**

	Origin	Range	Guidance
1	Soviet-made P-21/P-22 (pre-war Yemeni army stocks)	80km	radar homing/IR
2	Chinese-made C-801 (pre-war Yemeni army stocks)	40km	radar homing
3	Iran, Ghadir	300km	radar homing
4	Iran, anti-ship version of Paveh/351	800km	radar homing
5	Iran, anti-ship version of Paveh/351	likely ≥ 800km	E0/IR
6	Iran	180km	Unknown

#### **Houthis ASBMs**



#### **Houthi Anti-Ship Ballistic Missiles**

	Origin	Range	Guidance
1	Soviet-made SA-2 SAM converted using Iranian guidance	Unknown	EO/IR
2	Iran, anti-ship version of Fateh 313	450km	EO/IR
3	Iran, anti-ship version of Raad 500	500km	EO/IR
4	Either Iran or local production with Iranian guidance kit	140km	EO/IR
5	Either Iran or local production with Iranian guidance kit	Unknown	EO/IR
6	Either Iran or local production with Iranian guidance kit	Unknown	EO/IR



#### **Houthis UAVs**





#### **Houthis USVs**



## **Houthi USV Attack On MV Tutor**



- MV Tutor was successfully attacked and sunk by two Houthi USVs.
  - One struck *Tutor* astern, the second amidships.
- The Skiff WBIED looks like a standard small fishing skiff and even had mannikins added to increase its authenticity.

#### Targeting



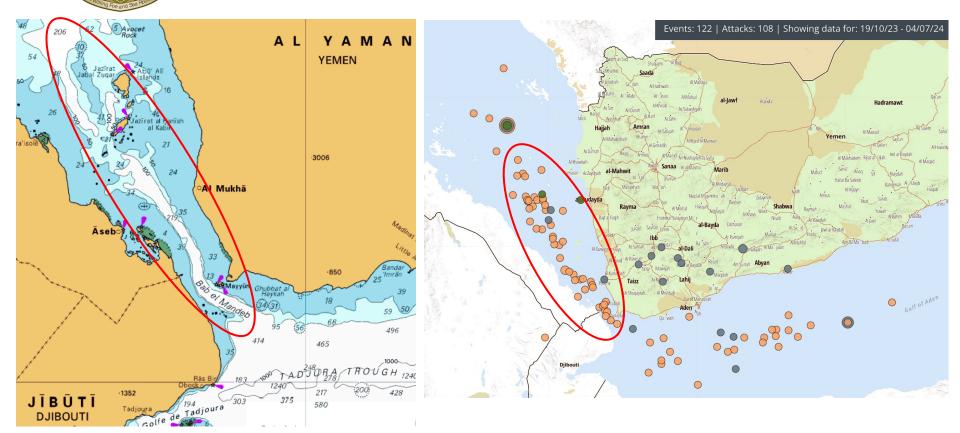


• Multiple means of locating targets.

- Shore radar posts/mobile radars
- Reconnaissance UAVs
- Iranian intel ships (Behshad, Saviz)
- Every dhow or fishing vessel with a cell phone or satellite phone

In *Harpoon V* terms, they all provide a "Poor" fire control solution.

#### **Targeting – Environmental Benefits**



Of course, it's a bit easier if you already know where the target has to go.

- Navigable waters of the Bab el-Mandeb (Gates of Grief) is 7 nmi.
  - Inbound and outbound shipping channels are 2 nmi wide with a 1 nmi separation.



#### Effectiveness

**MV Tutor being struck amidships by an USV – 12 June 2024** 



Just how "effective" are the Houthis attacks. From a purely military perspective – not very.

- 5 February 2024 Houthi statement:
  - 107 ships attacked since November with 606 ballistic missiles and drones
  - November January: 25 reported events
  - November January: 10 events resulted in hit(s)
  - Prob of Engagement = 25/107 = 0.234 or 23.4%
  - Prob of Successful Attack = 10/25 = 0.40 or 40%
- A similar statement on 4 April 2024 claimed 90 ships targeted, 34 attacked with 125 ballistic missiles and drones. Reporting lists 8 engagements with 3 ships being hit.
  - Similar probability values: 24% of an engagement and 38% of successful attack.



#### Effectiveness

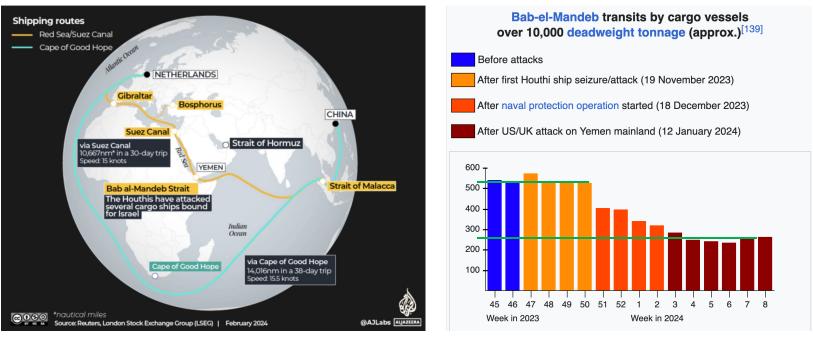




- Two merchant ships have been sunk.
- *Rubymar* was sunk on 18 February 2024.
  - Bulk carrier, 19,420 GRT
  - Sunk by multiple ASBM hits
- *Tutor* was sunk on 12 June 2024.
  - Bulk carrier, 44,479 GRT
  - Sunk by two USV hits.



#### Effectiveness



Politically, the attacks have been very effective.

Insurance rates up by a factor of 20 (from 0.05% to 1% of hull value).

• Traffic through the Red Sea as of Feb 2024 has decreased by about half.

- Late Dec 2023, container ships avoided transiting the Red Sea.

Going around Africa adds about 3,500 nmi, 8-10 days, and \$1 million (fuel).

### **Roles and Missions**



#### Sea Control

- Julian Corbett defined as the ability to control the maritime communications of all parties concerned.
- A nation's ability to operate in the maritime domain without enemy interference. (U.S. Navy)
- Offensive focus.

#### Maritime Security

- Protecting sea lines of communication.

#### Power Projection

- Forward presence.

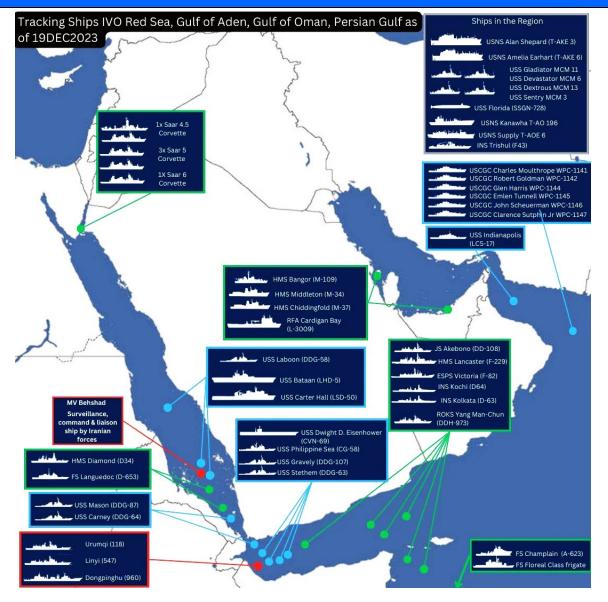
#### Deterrence

- Conventional and strategic.



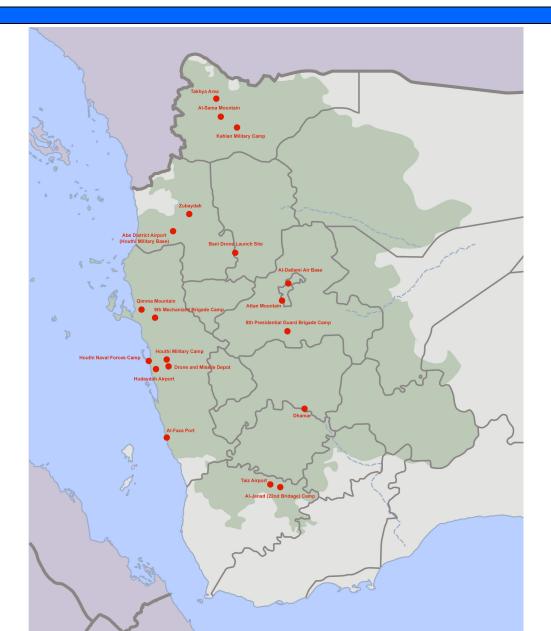


#### **Sea Control or Maritime Security**





#### **Power Projection**

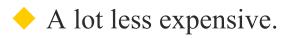


### Sea Denial



Sea denial excludes adversaries from utilizing the maritime space in an expected period of time and place of choosing.

- Goal is to prevent the use of the sea by an opponent.
- Not the opposite of Sea Control doesn't imply the denier itself can use the sea.
- Defensive focus.
- Attacks tend to be limited in time and scope.
  - More likely to employ asymmetric operations.
  - Current crisis emphasis on civilian targets vice military ones.
- Much easier than sea control.
  - Doesn't even require a navy.





### Iran's Past Antishipping Campaign

Comparisons with the Persian Gulf Tanker War 1987-88.

• Iranian use of a proxy, vice direct operations.

- Providing intelligence, logistic, and IRGC technical assistance.
- A wider variety of more effective weapons.
  - ASCMs, ASBMs, airborne and seaborne loitering munitions (drones).
  - Weapons still largely used asymmetrically.
- Same tactical goal: Threaten civilian merchant traffic using a key chokepoint. Threaten a vital sea line of communication.
- Same strategic goal: Embarrass the U.S., Israel, and the West. Enhance their ability to influence the political situation in the Middle East.



Championing the Gaza cause in a such an aggressive manner has catapulted the Houthi to the forefront of world attention.

- No longer marginalized.

Enhances their standing in Yemen by challenging Israel and the West.

- Necessary as there is significant economic and religious stress in Houthi held territory.
- Enhances their standing within the Iranian Axis of Resistance.
- Force the West to negotiate with them.
  - De facto legitimacy as a nation state.
- Re-establish the Zaydi ruled North Yemen.

## Ways It Can End



• Who's winning?

- Militarily: The West
- Politically and Economically: The Houthis
  - The driving factor is all about the money.
- Houthi victory conditions is a rather low bar being troublesome.

#### Political resolution.

- Negotiated settlement reinforces Houthi behavior as this is a goal.
- Will Israel even buy off on such a settlement?
  - Withdrawal from Gaza will certainly be a condition.
- Economic sanctions.
  - Is this even a viable pressure tool for Yemen?
  - Shut down Houthi supply line by a quarantine of Iranian shipping?

#### Military actions.

- Sustained intense air campaign destroys things but doesn't grant control.
- Boots on the ground necessary for control unpalatable option for the West.

## Conclusions



Houthi Movement has gained significant international attention by very publicly supporting the Palestinian/Gaza cause.

- Zaydi's are not longer marginalized, no longer ignored.
- Improved their standing at home and in the Iranian Axis of Resistance.
- Houthi's win by not losing.
  - Low bar if your main objective is to be troublesome or a nuisance.
  - Willing to commit substantial amount of sparse resources to the Gaza cause.
- The U.S. and the West really not eager to commit the forces necessary to militarily defeat the Houthis.
  - Decisive outcome would be very expensive, likely would require ground troops.
- Negotiated settlement is problematic.
  - Even if Israel goes along with a diplomatic solution, Houthis win.
- Current crisis unlikely to be resolved any time soon.

# **Questions?**

