

Red Sea Crisis: The Houthi Problem

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Admiralty Trilogy Seminar

Overview



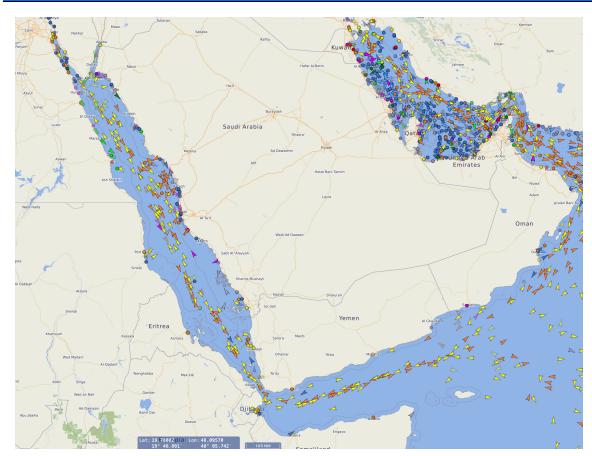
- The Region
- Yemeni civil war
- Who are the Houthis?
- Houthi weapons
- Targeting
- Effectiveness
- Roles and Missions
 - Traditional roles of a Navy
 - Sea Denial
 - Iran's past antishipping campaign
 - Houthi's goals
- Ways it can End





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

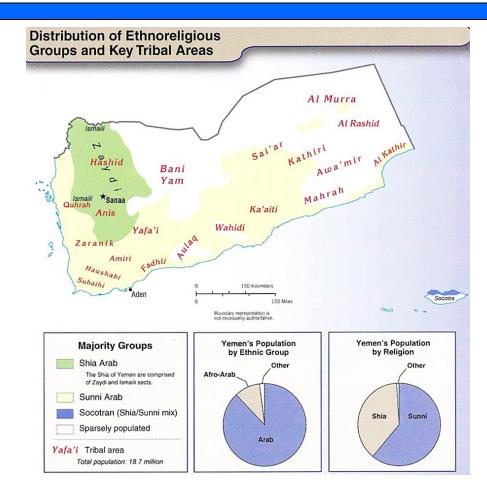


+ The Republic of Yemen is a very young and fragile country.

- 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.

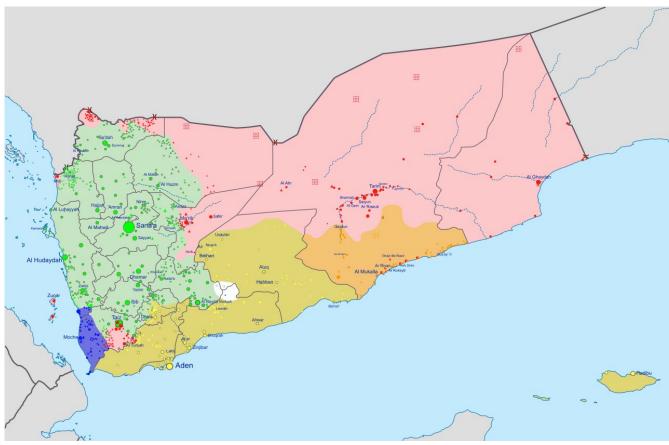
Zaydi resisted Saleh's polices as well as growing Sunni influence.

- 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







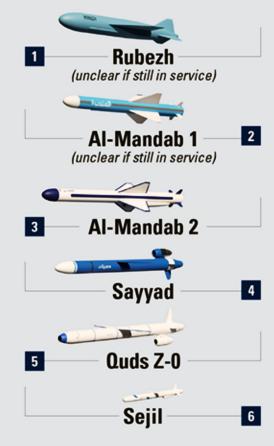
- 7 October 2023: Palestinian militant groups, mainly Hamas and Palestinian Islamic Jihad launched an unprecedented assault on Israel.
- Israel launched Operation Swords of Iron on 13 October followed by a fullscale invasion on 27 October.

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



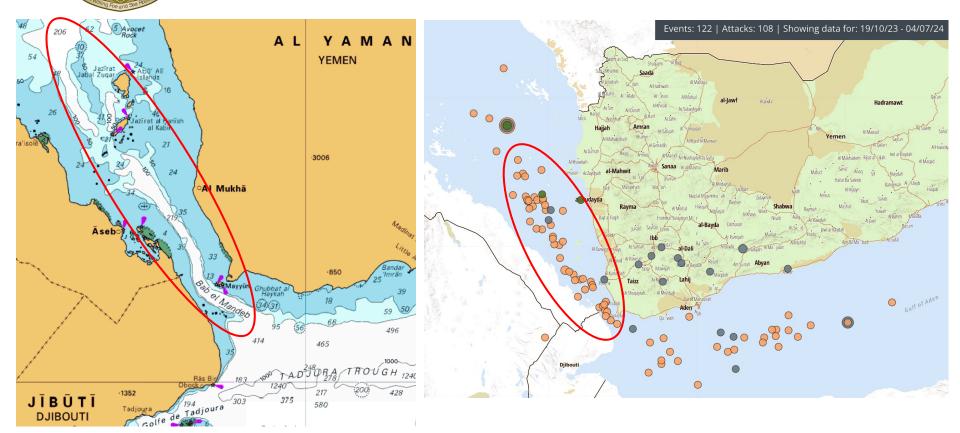


• Multiple means of locating targets.

- 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

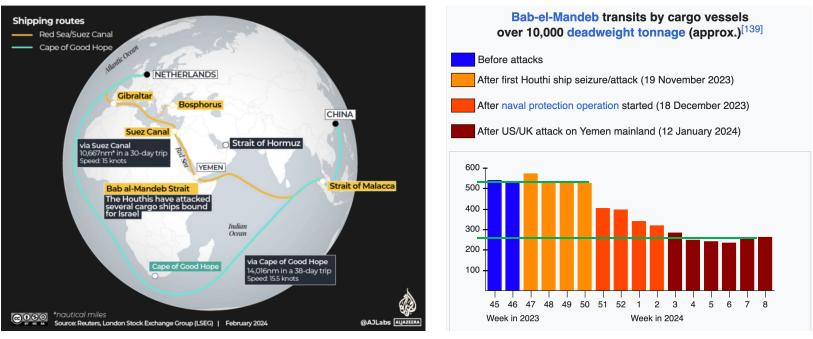




- Two merchant ships have been sunk.
- *Rubymar* was sunk on 18 February 2024.
 - Bulk carrier, 19,420 GRT
 - Sunk by multiple ASBM hits
- *Tutor* was sunk on 12 June 2024.
 - Bulk carrier, 44,479 GRT
 - Sunk by two USV hits.



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.

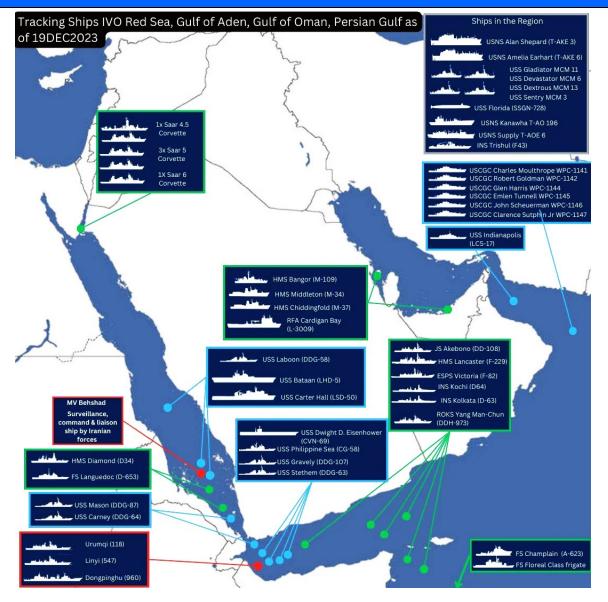
Deterrence

- Conventional and strategic.



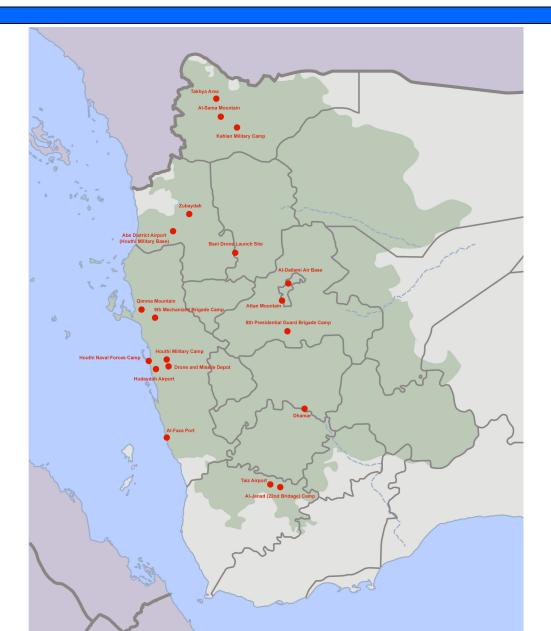


Sea Control or Maritime Security





Power Projection

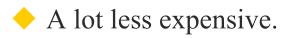


Sea Denial



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?

