



The views expressed are solely those of the author and do not represent official US Government policy.

# ***US Military Presence in the Middle East***

Professor DB Des Roches

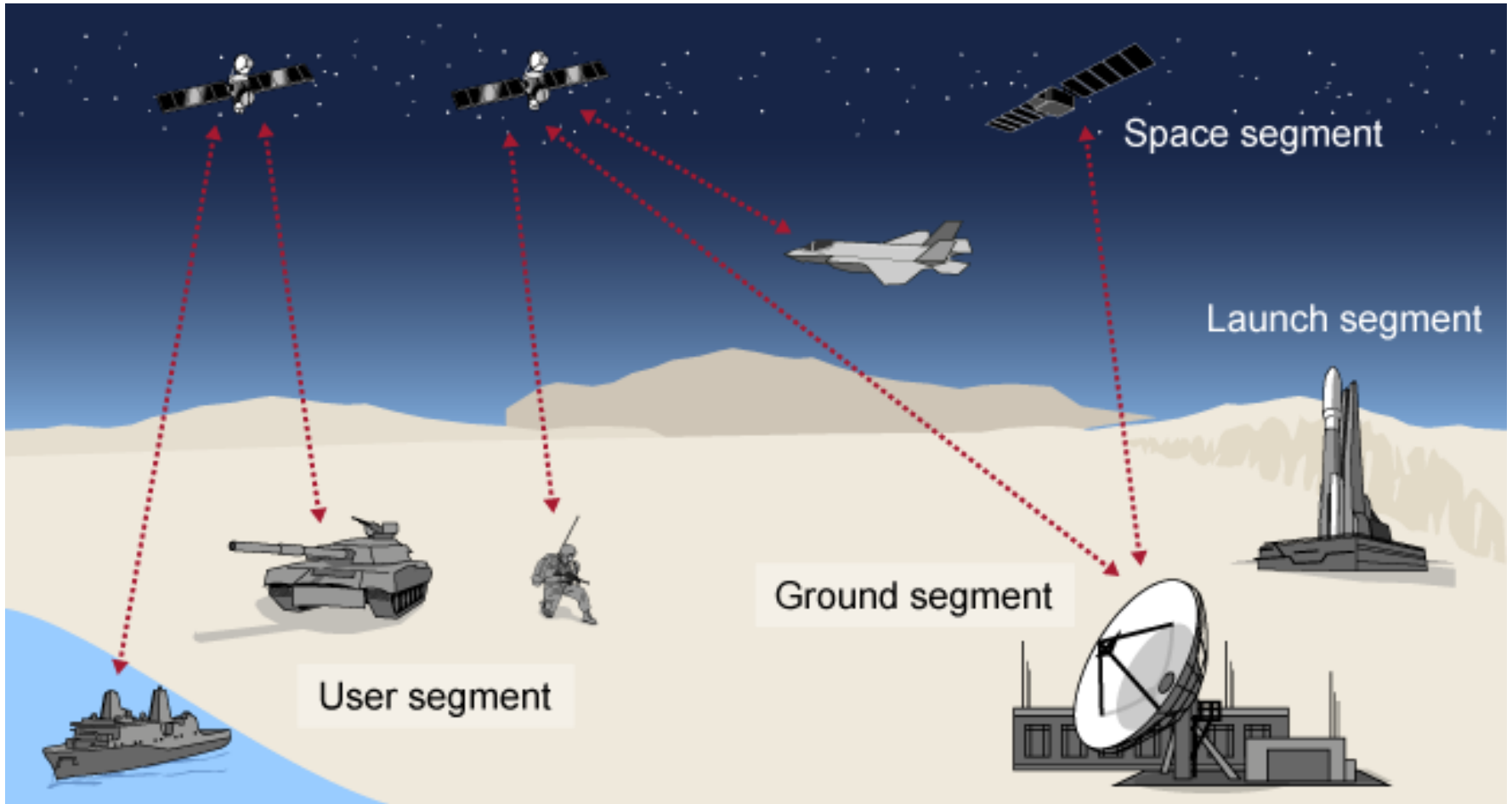
[david.desroches@ndu.edu](mailto:david.desroches@ndu.edu)

[www.facebook.com/dbdesroches](https://www.facebook.com/dbdesroches)

 @DBDesRoches

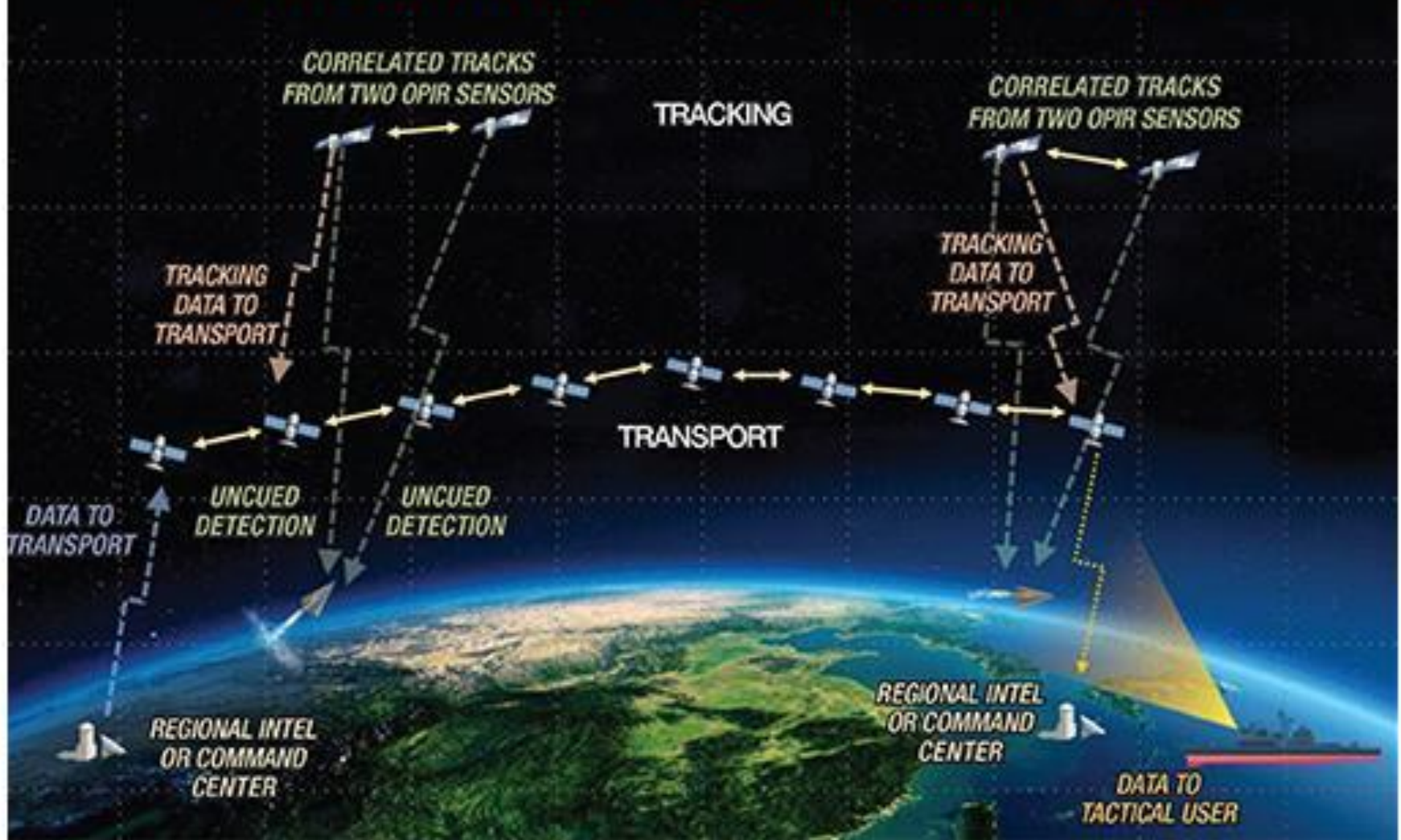
9 September 2021

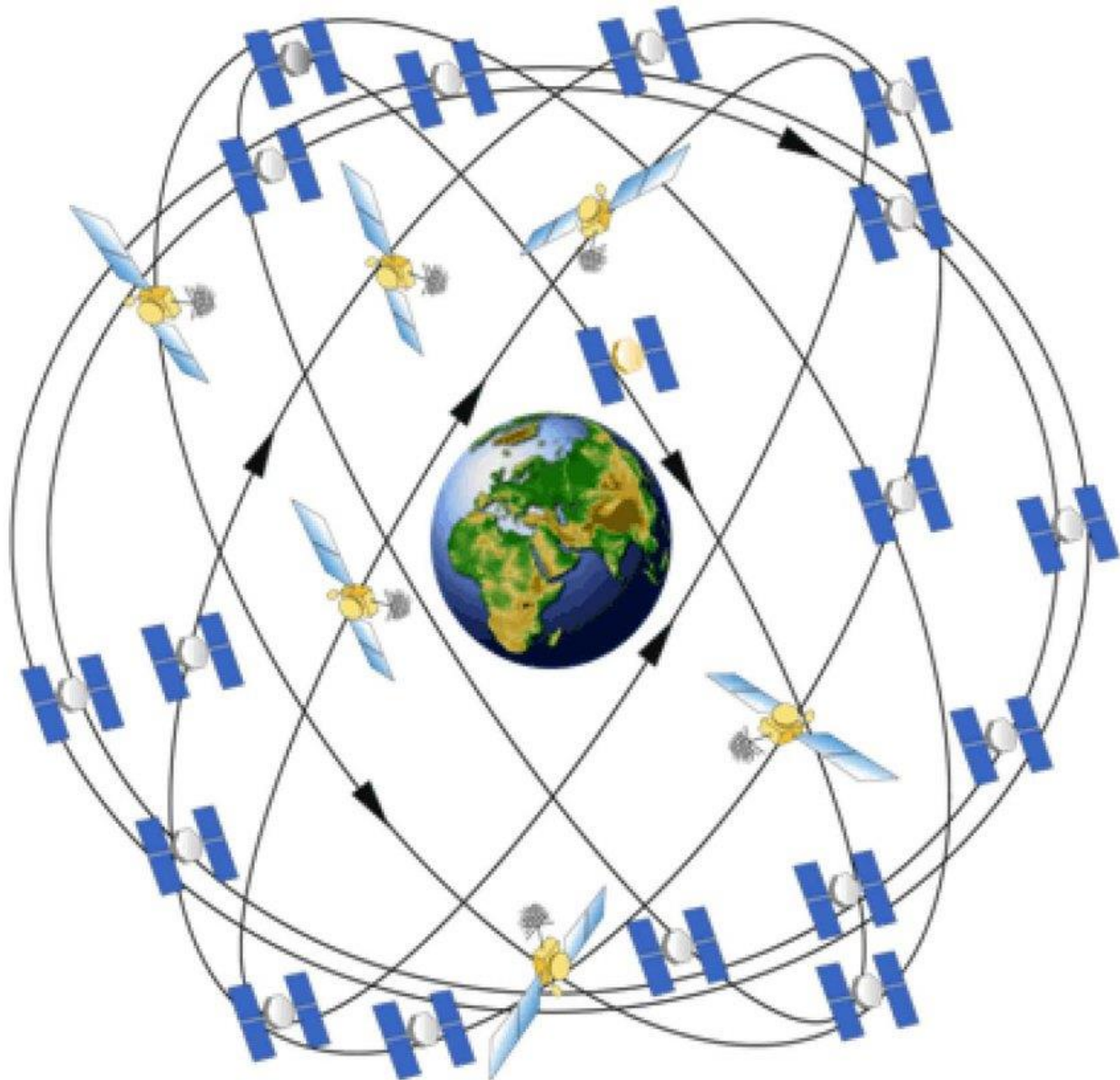




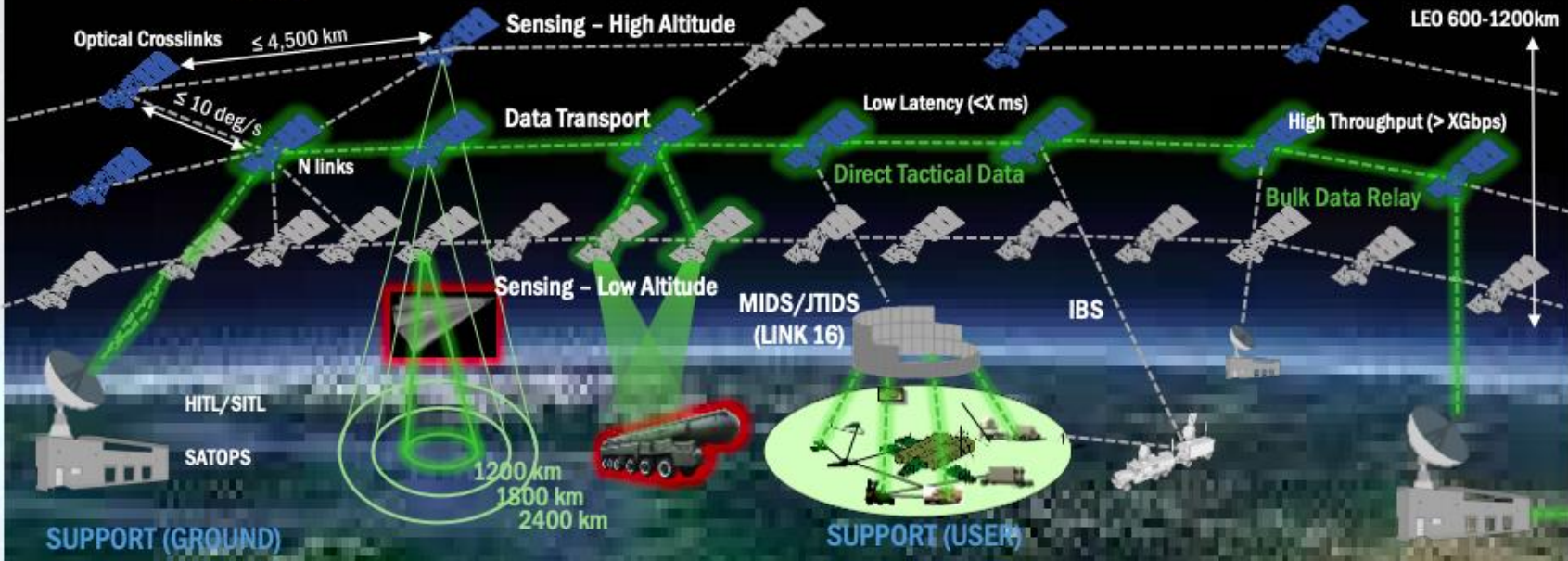
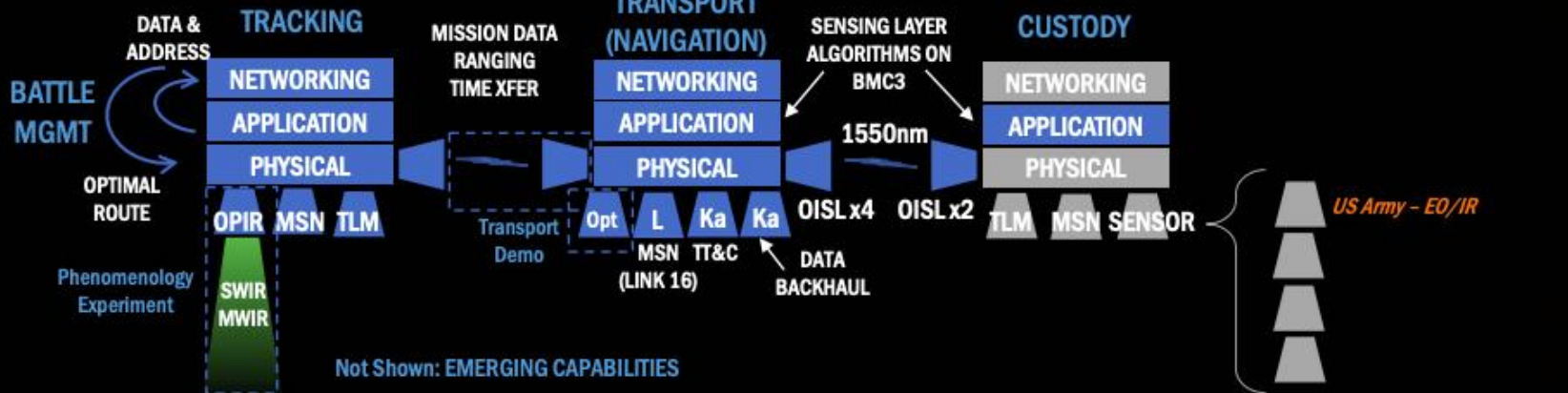
Source: GAO analysis of Department of Defense (DOD) documentation. | GAO-20-80

## How SDA Will Link Space and Ground Signals

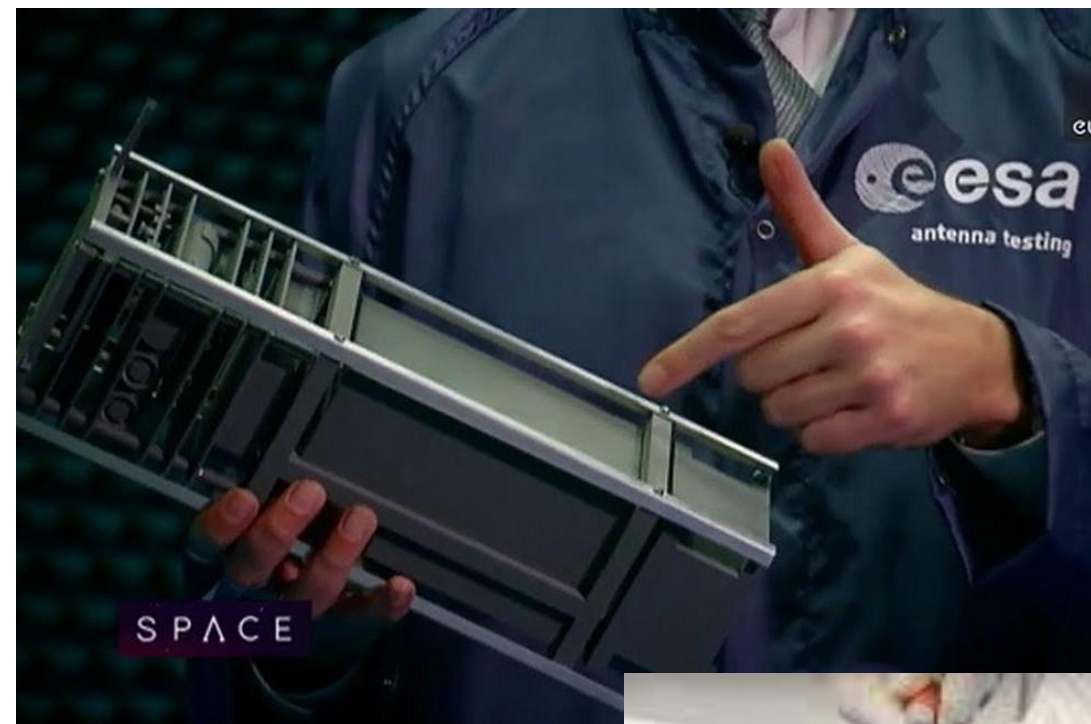




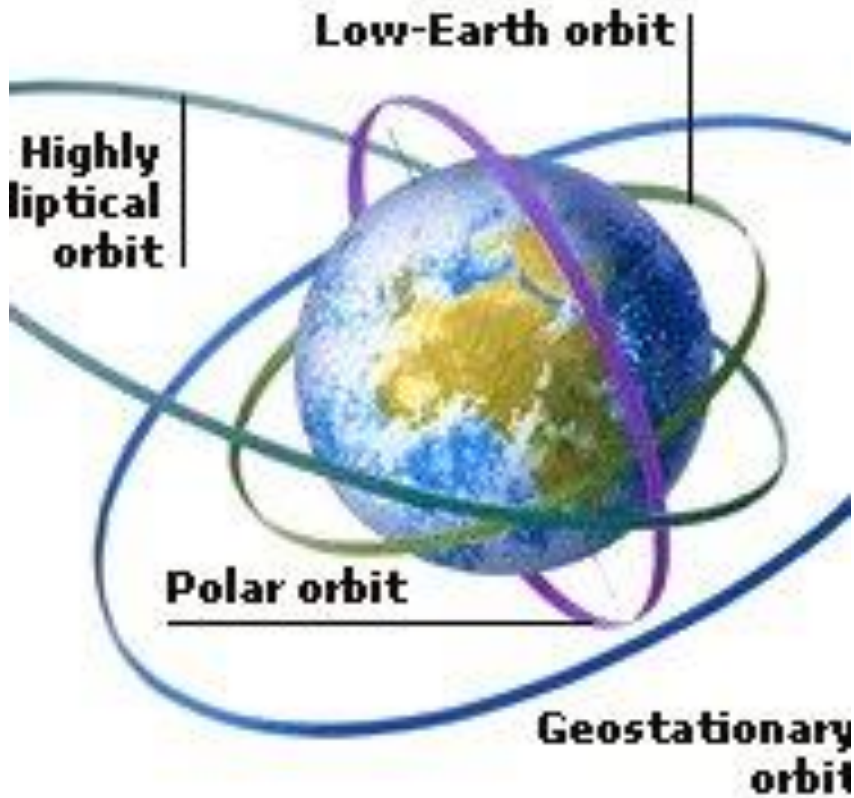
VERSION: v0.8.6



Distribution A: Approved for public release. Distribution unlimited

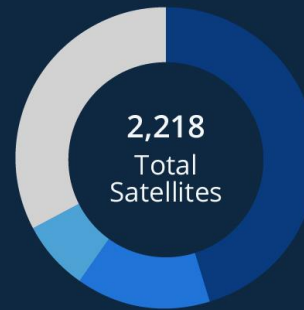




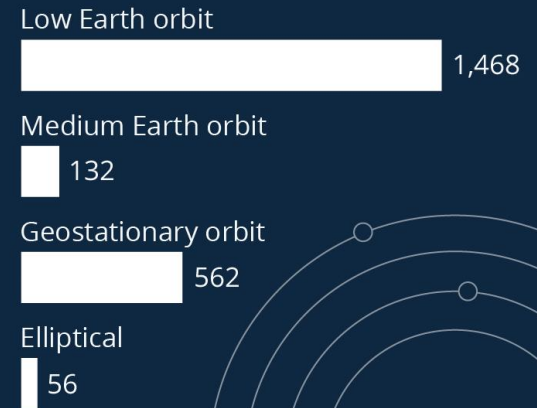


## LEO Satellites Fuel New Space Race

Number of current satellites in orbit by country and type



- 1,007 U.S.
- 323 China
- 164 Russia
- 724 Other



Data recorded as of Sept. 30, 2019  
Source: Union of Concerned Scientists



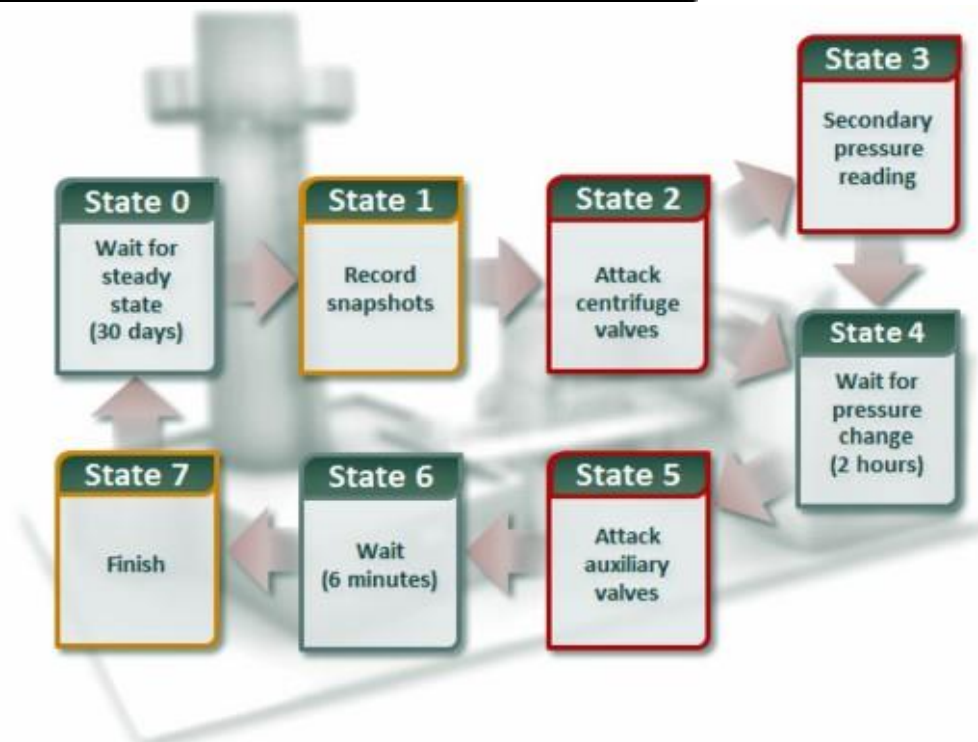
statista



Table 1

## Evolution of Stuxnet versions

Version	Date	Description
0.500	November 3, 2005	C&C server registration
0.500	November 15, 2007	Submit date to a public scanning service
0.500	July 4, 2009	Infection stop date
1.001	June 22, 2009	Main binary compile timestamp
1.100	March 1, 2010	Main binary compile timestamp
1.101	April 14, 2010	Main binary compile timestamp
1.x	June 24, 2012	Infection stop date

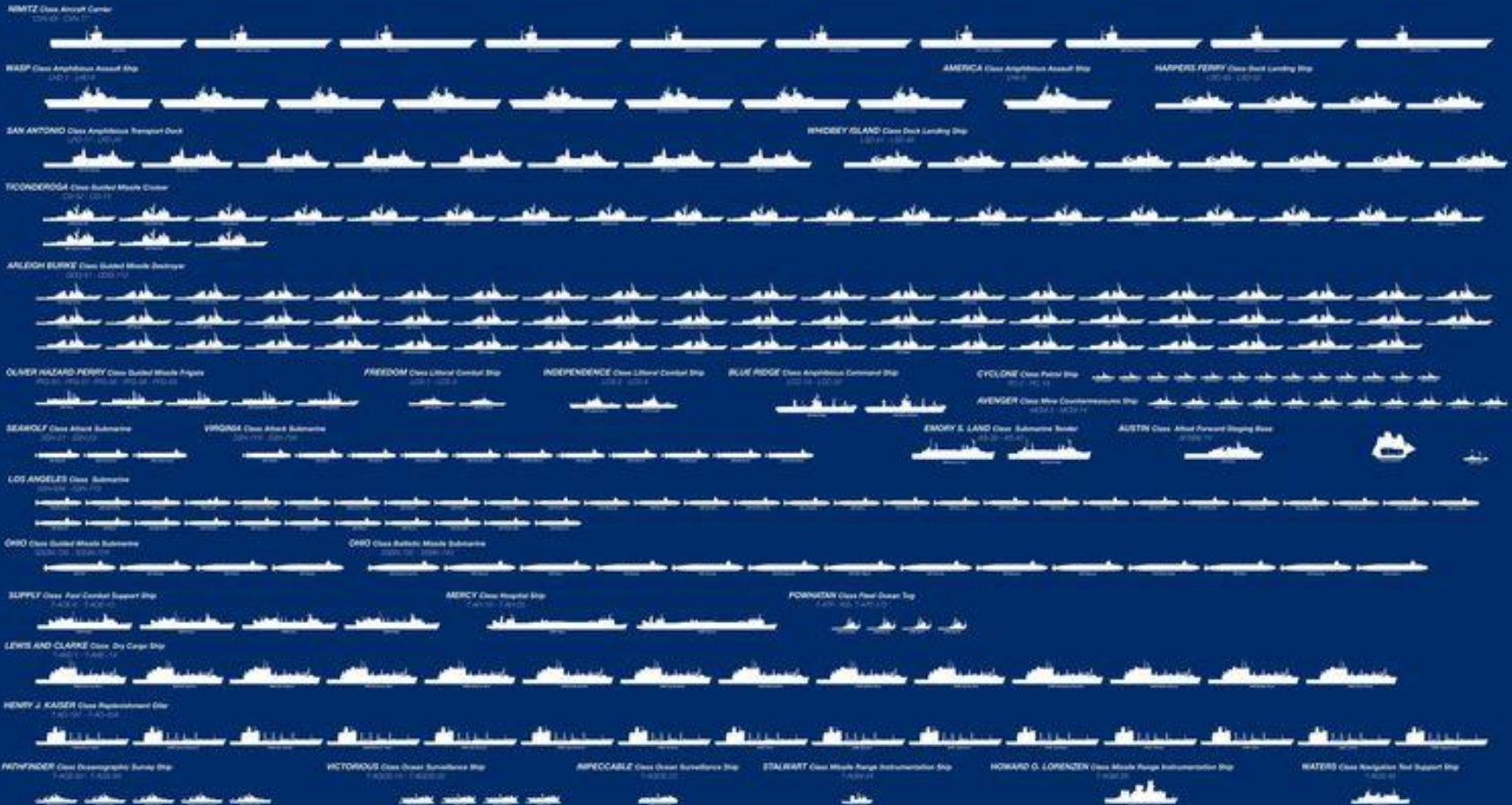








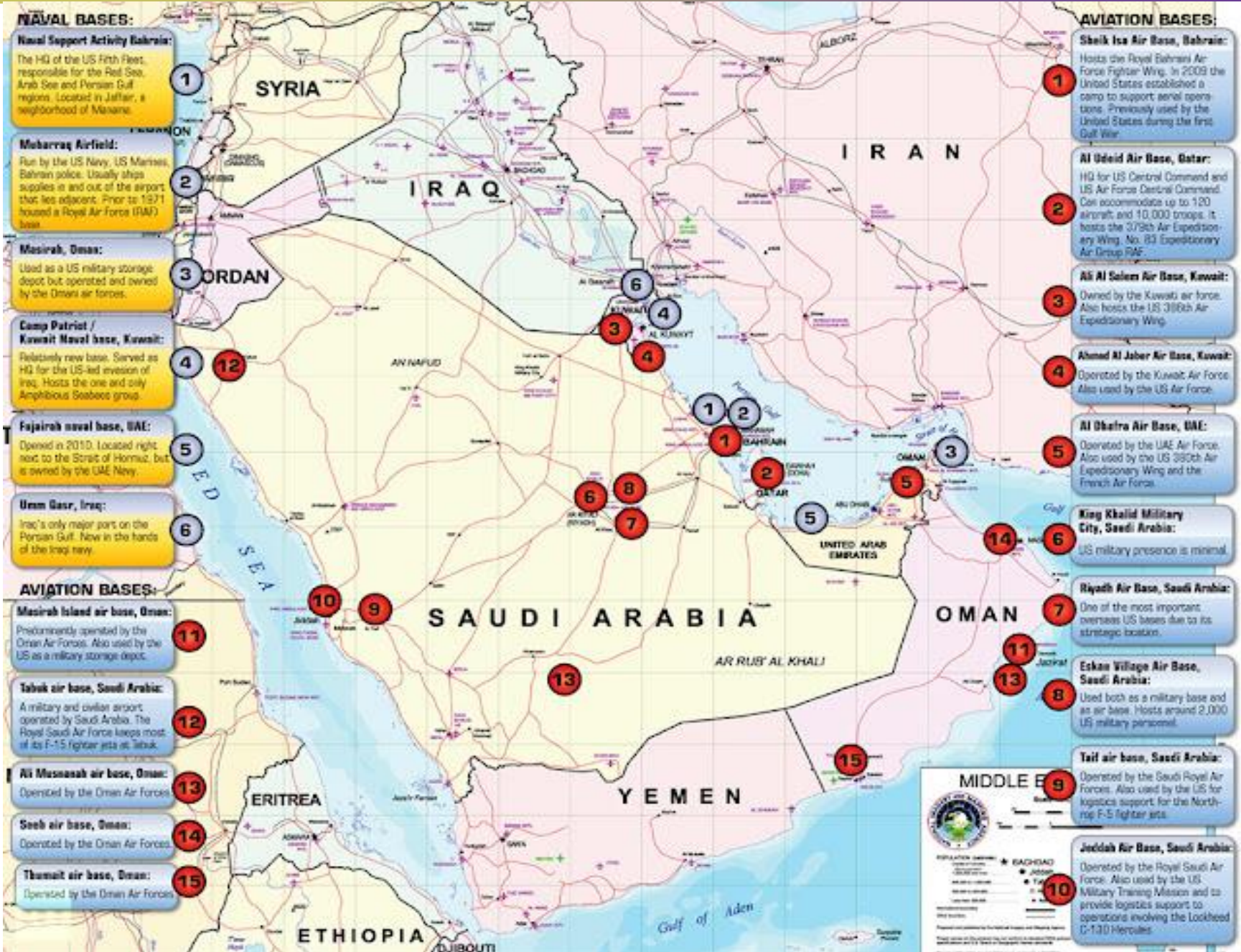
The commissioned and uncommissioned ships, boats and other vessels of  
**The United States Navy**  
 including the Military Sealift Command's **Combat Logistic Force** and **Special Mission Ships**  
 as of April 2015





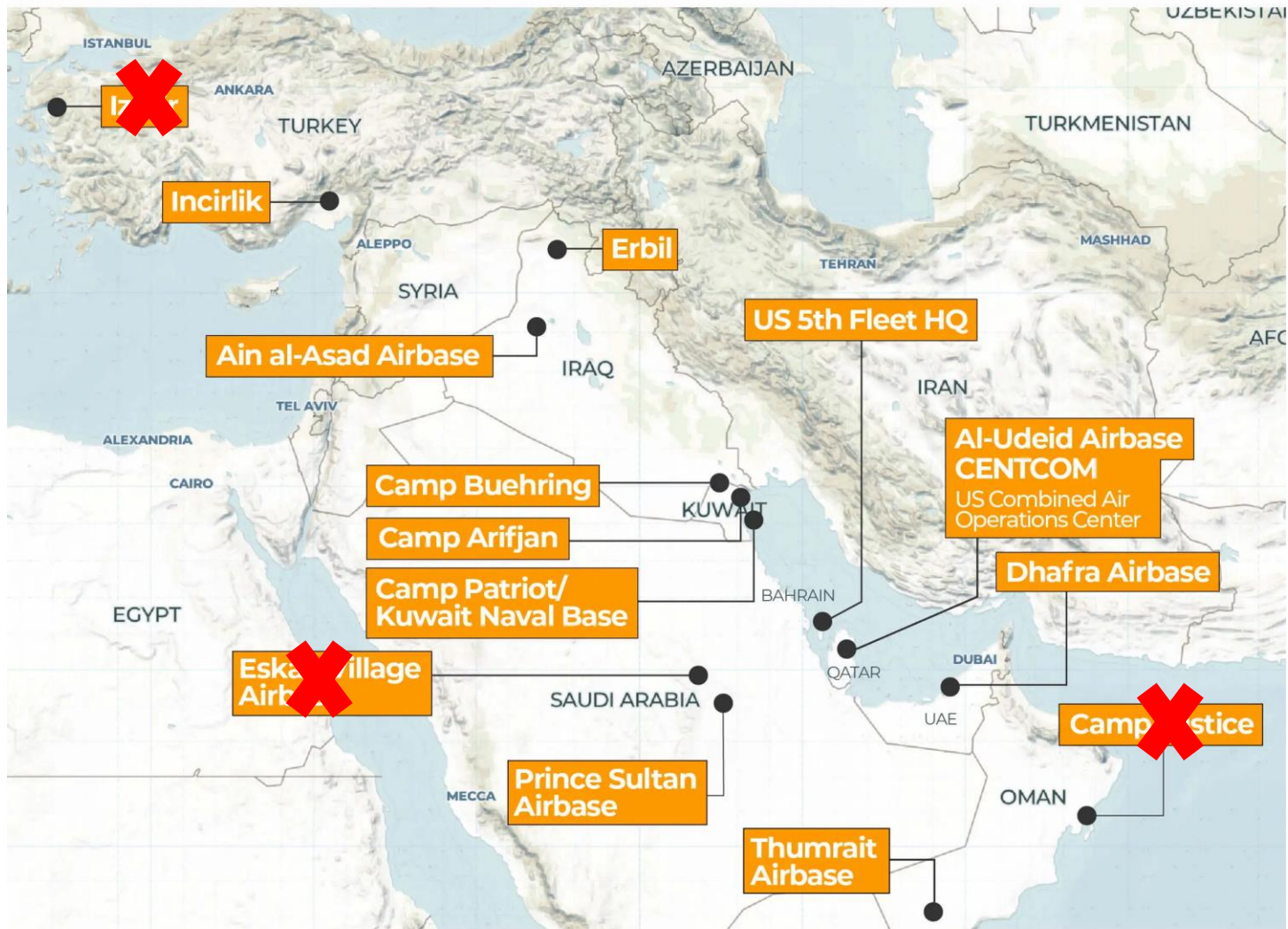


# US Bases in the Gulf





# Major bases used by US forces in the Middle East

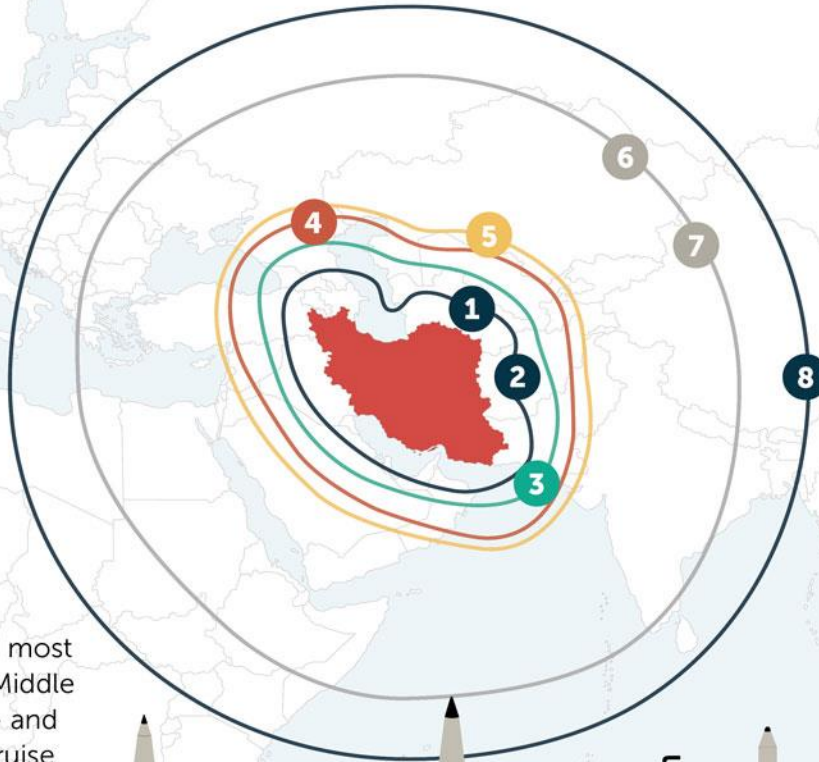








# IRAN'S BALLISTIC MISSILES



Iran possesses the largest and most diverse missile arsenal in the Middle East, with thousands of short- and medium-range ballistic and cruise missiles capable of striking as far as Israel and southeast Europe. Missiles have become a central tool of Iranian power projection and anti-access/area-denial capabilities in the face of U.S. and Gulf Cooperation Council naval and air power in the region.



**SHAHAB 1 | 300km**

1



**FATEH-110 | 300km**

2



**SHAHAB 2 | 500km**

3



**ZOLFAGHAR | 700km**

4



**QIAM-1 | 800km**

5



**SHAHAB 3/EMAD/GHADR | 2000km**

6



**SEJJIL | 2000km**

7



**SOUMAR (CRUISE MISSILE) | 2500km**

8

18m/60ft

0m







▲ Picture reportedly of 4 Nov Qiam Launch

RANGE	900+ KM	559+ MILES
PAYLOAD	746 KG	1,645 LBS
LENGTH	11.5 M	37.7 FT
DIAMETER	0.88 M	2.89 FT
PROPELLANT TYPE	LIQUID	



▲ Qiam Short Range Ballistic Missile



photo by :  
S.M.M



جزئیات عملیات ضربت محرم - مقر تجمع نفرت داعش در هجین

قبل از عملیات



بعد از عملیات



وزارة الدفاع  
MINISTRY OF DEFENSE



Iranian Delta Wing UAV  
(Afif) Attack

14 MAY 2019



# Damage to Oil/Gas Infrastructure at Abqaiq - Overview

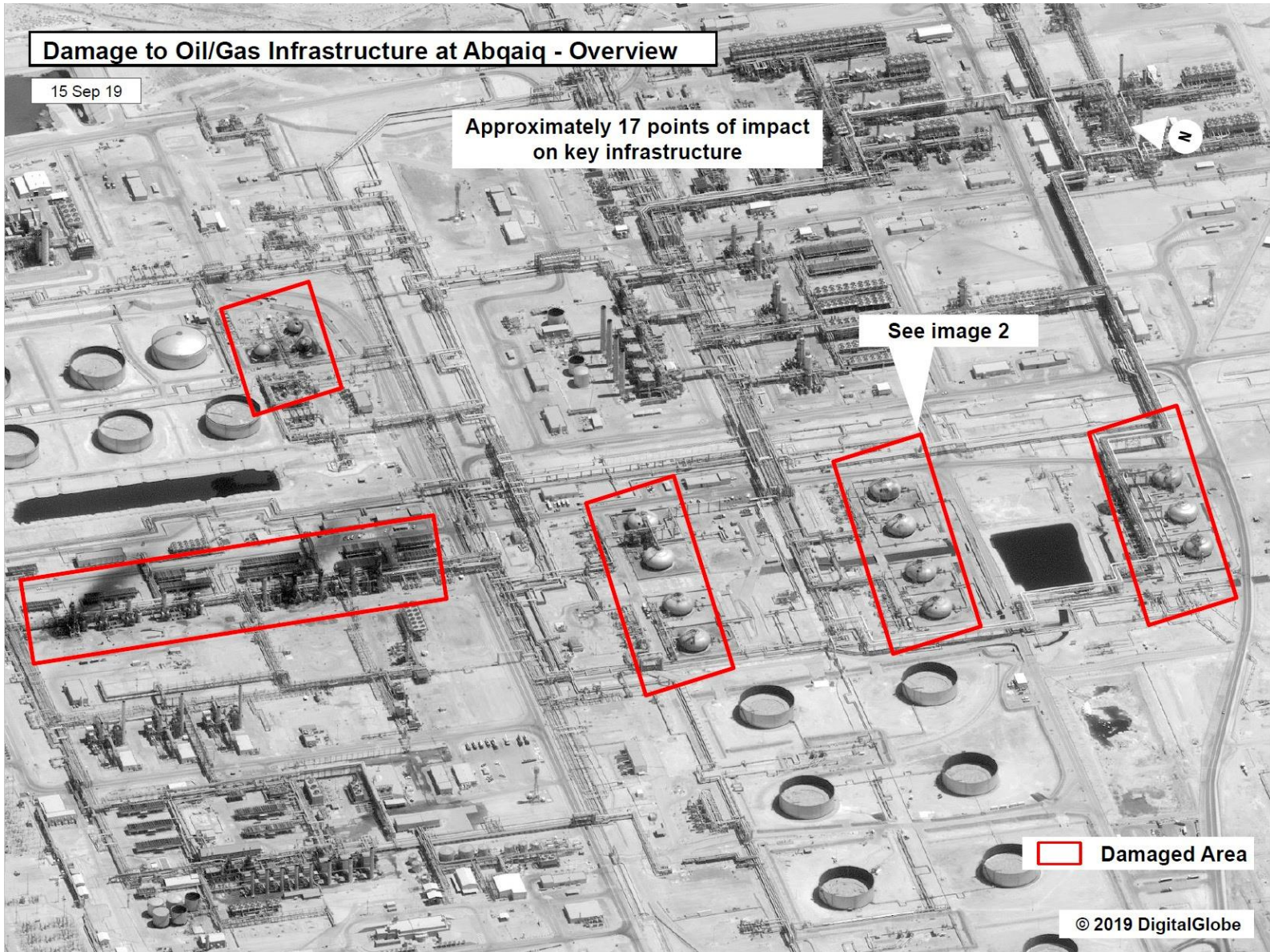
15 Sep 19

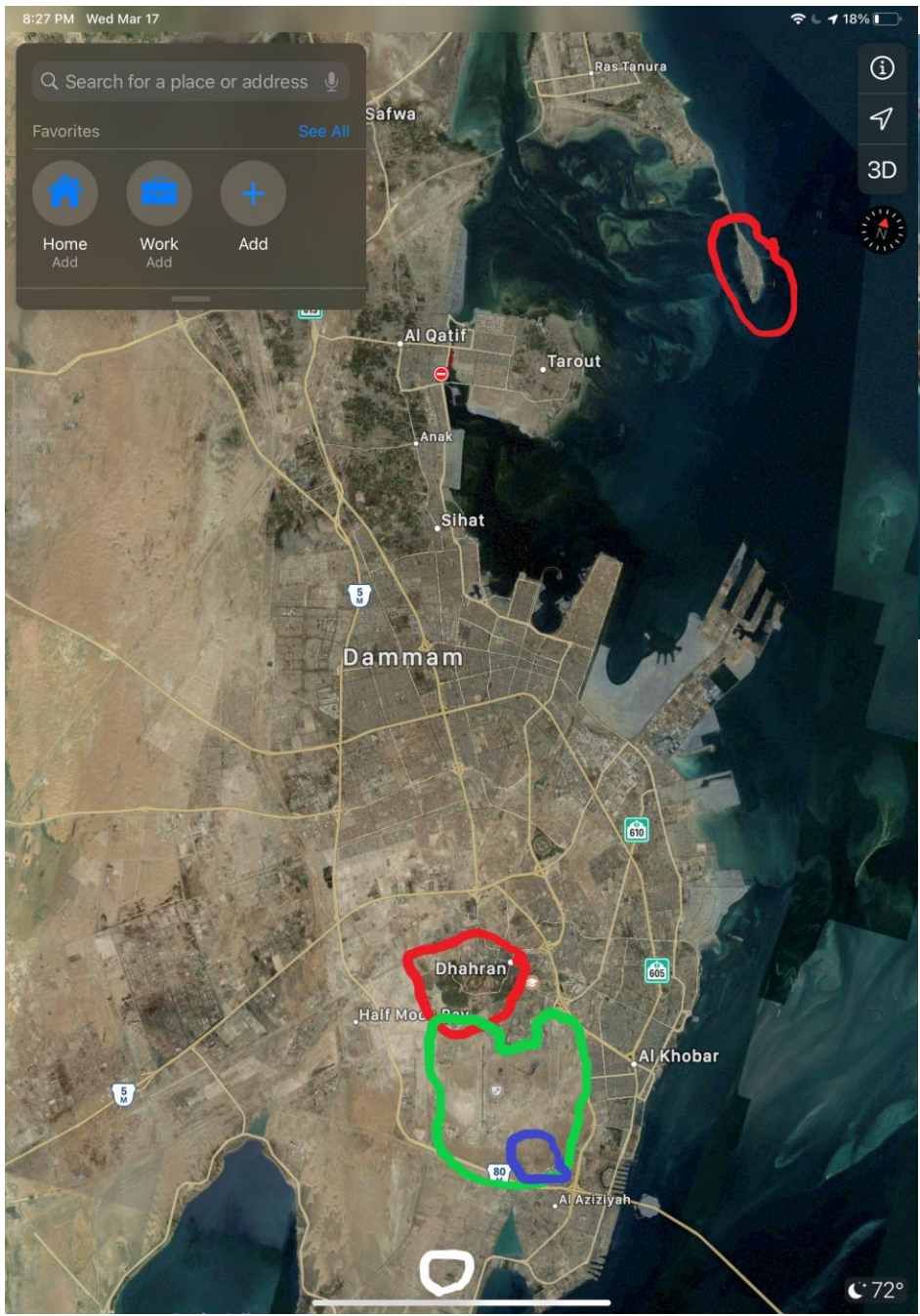
Approximately 17 points of impact on key infrastructure

See image 2

 Damaged Area

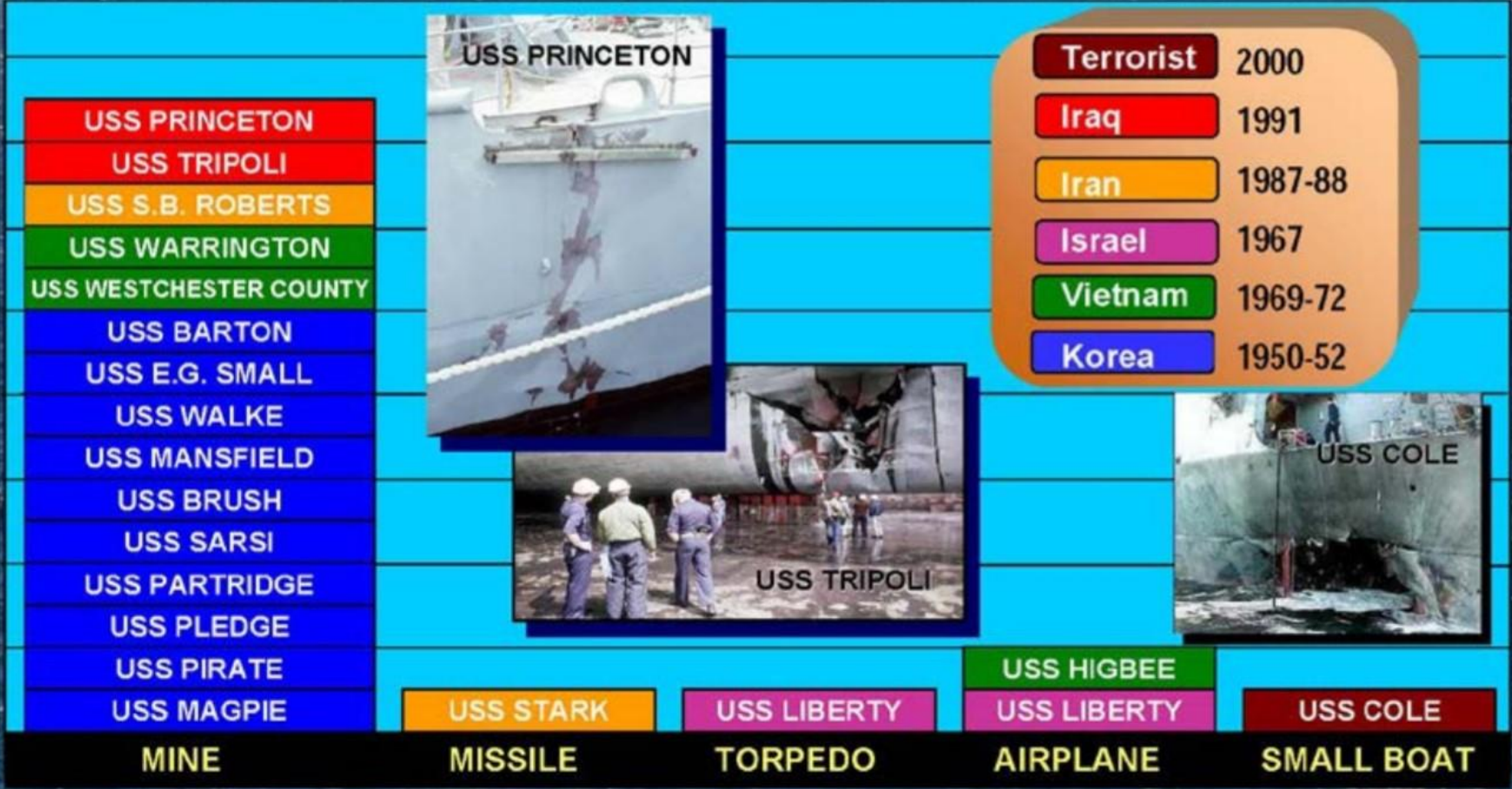
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# of Attacks

16  
14  
12  
10  
8  
6  
4  
2  
0



**Terrorist** 2000

**Iraq** 1991

**Iran** 1987-88

**Israel** 1967

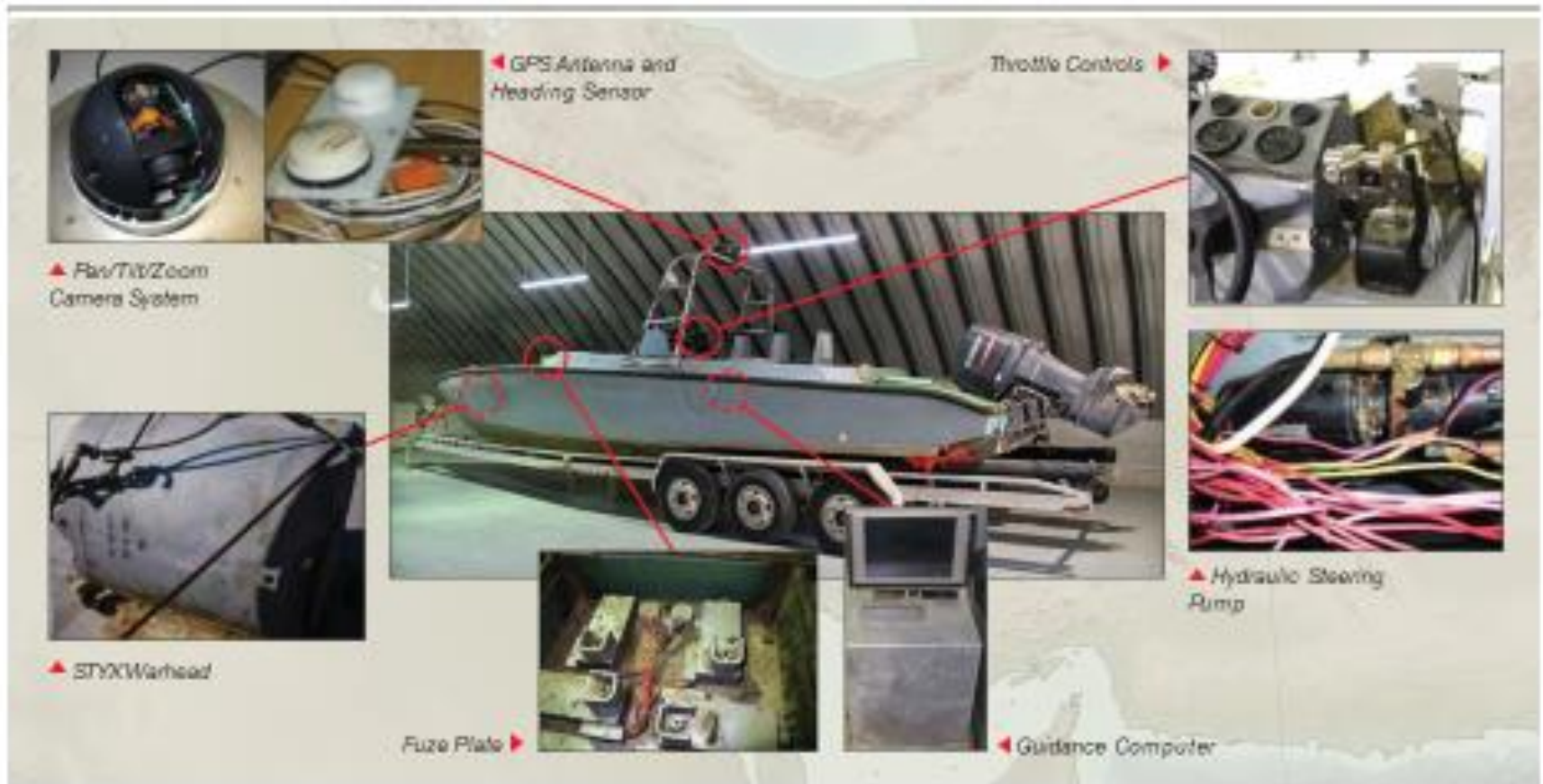
**Vietnam** 1969-72

**Korea** 1950-52

# Disruption at Sea



# Shark 33



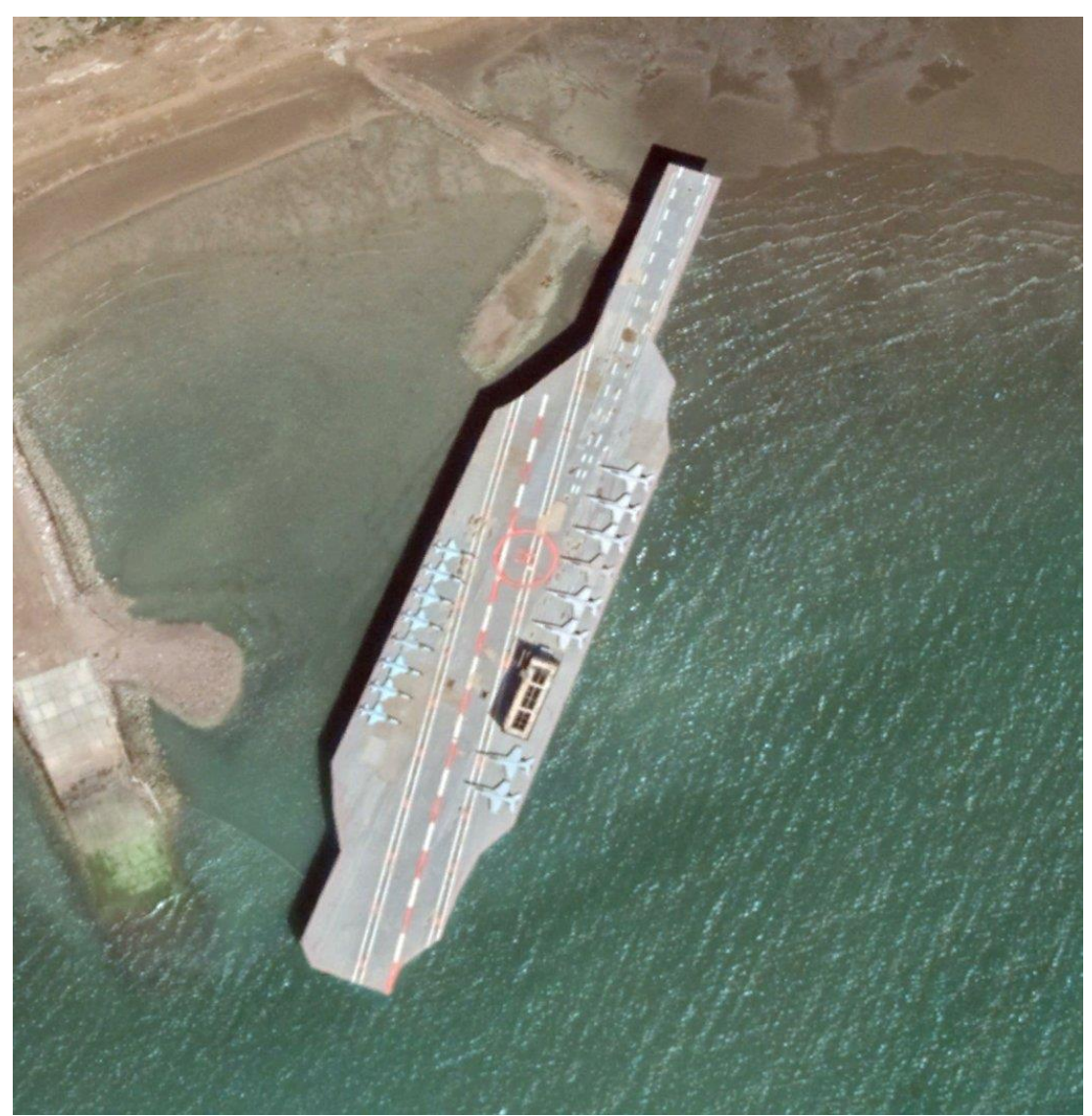






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UNCLASSIFIED

# M/V KOKUKA COURAGEOUS – Likely Limpet Mine 13 JUNE 2019



UNCLASSIFIED











# QUESTIONS???

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9 November 2021

