

Strait of Hormuz

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Why in News?

Under **Operation Midnight Hammer**, the US targeted three key **Iranian nuclear facilities** (**Natanz**, Isfahan, and **Fordow**). In retaliation, Iran's parliament approved a proposal to close the **Strait of Hormuz**

■ The US strike utilized B-2 Stealth Bombers, GBU-57 bunker buster bombs (Massive Ordnance Penetrators), and Tomahawk missiles.

What are Key Facts About the Strait of Hormuz?

- About: It is a narrow sea passage (55-95 km wide) between Iran and the <u>Arabian Peninsula</u>, connecting the <u>Persian Gulf</u> to the Gulf of Oman and the Arabian Sea.
 - It serves as a vital transit route for global oil and liquefied natural gas (LNG) shipments from Persian Gulf countries.



Global Energy Dependence: It is a critical artery for global oil transit, carrying about 20-25% of the world's total oil supply. In 2024, approximately 20 million barrels per day passed

through it.

- Major oil exporters using the Strait include Saudi Arabia, Iran, Iraq, Kuwait, UAE, and Qatar, while over 80% of this oil is destined for Asian markets, primarily India, China, Japan, and South Korea.
- India's Dependence: Approximately 40% of India's crude oil imports and around 54% of its LNG imports pass through this strategic passage.
- Historical Flashpoints: While a complete shutdown of the Strait of Hormuz has no historical precedent, the region has witnessed significant disruptions.
 - During the Iran-Iraq War (1980-88), both sides attacked oil tankers and cargo ships in the Gulf region dubbed as Tanker War.
 - In 2019, Iran seized a British tanker and has repeatedly threatened to block the Strait during geopolitical tensions, notably in 2011-12 and after US sanctions post-2018.
- Alternate Routes and Pipelines: Saudi Arabia (via ARAMCO) and the UAE have pipelines bypassing the Strait, while Iran uses the Goreh-Jask pipeline and Jask terminal to export oil directly to the Gulf of Oman.

B-2 Stealth Bombers

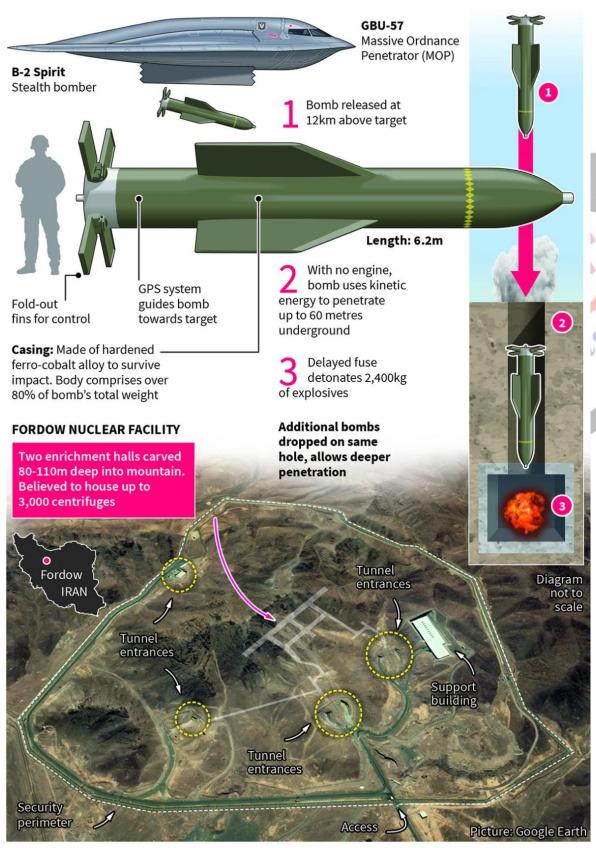
- About: It is a US Air Force strategic stealth bomber, renowned for its long range (6,000 miles), low observability, and precision strike capabilities.
 - It remains the most advanced and expensive aircraft ever built, with a unit cost exceeding USD 2 billion.
- Development & Induction: The B-2, developed by Northrop Grumman, took its maiden flight in July 1989 and entered operational service in 1997.
 - A total of 21 B-2 bombers were produced, with 19 currently in active service.
 - Its bat-like flying wing design reduces detection and evades enemy air defenses.
- Combat Use & Strategic Role: First used in the 1999 Kosovo War, the B-2 has been deployed in Iraq, Afghanistan, Libya, Yemen, and Iran.



Massive Ordnance Penetrators (GBU-57)

High intensity weapons

The nuclear fuel enrichment site at Fordow is located 60 miles south of Iran's capital Tehran in the mountainous region close to the city of Qom. The facilities are buried deep underground, estimated to be 80-90m deep, to withstand Israeli airstrikes. That's why there was a need for the GBU-57 MOP and the B-2 Spirit that can carry it



Sources: Nuclear Threat Initiative, U.S. Department of Defense, Boeing

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UPSC Civil Services Examination, Previous Year Questions (PYQs)

- Q. Between India and East Asia, the navigation-time and distance can be greatly reduced by which of the following? (2011)
 - 1. Deepening the Malacca straits between Malaysia and Indonesia.
 - 2. Opening a new canal across the Kra isthmus between the Gulf of Siam and Andaman Sea.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Ans: (b)

Q.Which one of the following can one come across if one travels through the Strait of Malacca? (2010)

- (a) Bali
- (b) Brunei
- (c) Java
- (d) Singapore

Ans: (d)

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