

## Iranian naval forces to launch two Al-Gadir submarines

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The Iranian Navy will launch two Al-Gadir submarines Nov. 28 on Navy Day, Iran's Navy Commander Habibullah Sayyari was quoted as saying by the Ilna news agency today.

"Four military landing craft air cushions and two Al-Gadir submarines will be transferred to the naval forces after the overhaul," Sayyari said at a news conference.

In January 2009, the Iranian Navy launched three Al-Gadir submarines at the Bandar Abbas Port. The Iranian Defense Ministry announced the start of Unis-6 military landing craft air cushion production in May 2009.

<http://en.trend.az/regions/iran/1586312.html>

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Reference From Global Security

### Al-Gadir submarines

#### Yono Class / Ghadir Class Midget Submarine

In 2005 Iran announced it would start production of its first indigenous submarine. Iran on 11 May 2005 officially launched the production of its first locally built submarine, a craft capable of operating stealthily, state-run television reported. Defence Ministry spokesman Mohammad Imani was quoted as saying "the enemy would not be able to detect the submarine." He did not elaborate. One submarine had already been built and was shown on television, cruising at sea level. The Defence Ministry had commissioned an unspecified number of the craft that's been dubbed "Ghadir."

The hull was launched in 2006. In 2007 the Iranian navy unveiled a submarine, named the Qadir (also written Ghadir), first of a number of planned midget submarines of the Yono class. Some observers suggested that the Qadir was otherwise similar to the North Korean Yugo boats, leading observers to suggest that this was an Iranian design based heavy on that class. But the Ghadir was 50% longer than the Yugo, and in fact resembled the North Korean Sang-O Class coastal submarines.

Iranian authorities asserted that the Qadir was an entirely Iranian design, and that the vessel could launch anti-ship missiles. Such a capability would have required the installation of more advanced systems into the submarine or the operation in concert with other vessels capable of guiding any such missiles. The Qadir does have provisions for mounting a Swimmer Delivery Vehicle (SDV), a type of craft that Iran has also developed.

Iran described the Ghadir as a "light" submarine, meaning it is smaller than the attack subs used by the United States. Iran has provided very little information about the craft, including its dimensions or the size of its crew.

The Shi'a celebrate the Eid al-Ghadir on 18 Dhu al-Hijja in the Islamic calendar, the day when Prophet Muhammad appointed Ali for the caliphate. Ghadir is a site in the Arabian Peninsula holy to Shias, the overwhelming majority of Iran's 69 million people. On 18th Zilhajjah of the year 10 A.H. (10 March 632 CE), after completing the last pilgrimage the Holy Prophet (S.A.W.) along with the Muslims set out of Makkah. On their way back the Muslims reached a place called Ghadir-e-khumm. The Holy Prophet (S.A.W.) said: "He (Ali) is the mawla (i.e., has prior right to and superior authority over the lives) of all those of whom I am mawla. O Allah, love him who loves him (Ali) and hate him who hates him." The "day of Ghadeer" is particularly specified for helping deserving people."

The submarine, which is capable of operating in the Persian Gulf and Oman seawaters, can launch both missiles and torpedoes at the same time, the television reported, without specifying the range of the projectiles. In December 2004, Iran announced the production of a line of stealth torpedoes that could be launched from helicopters, ships or submarines. Iranian officials have repeatedly said the Islamic Republic will defend itself should the United States or archrival Israel initiate any aggression. Pressure has mounted on Iran recently with suspicion over its nuclear program which Washington suspects is aimed at building unconventional weapons, a charge Iranian officials vehemently deny.

In November 2007 Iran claimed to have built a small submarine equipped with sonar-evading technology, saying the craft

had been launched in the Persian Gulf. The navy chief, Adm. Habibollah Sayyari, was quoted by state television as saying the new Ghadir-class submarine is the second Iranian-built underwater craft outfitted with "state-of-the-art electronic equipment." He said it took 10 years to build.

Iran's Naval Submarine fleet will be equipped with a new domestically manufactured submarine, the senior Iranian navy commander said in August 2008. Rear Admiral Habibollah Sayyari said that Iranian technicians have used indigenous technology to build the new submarine. He did not specify the class of the new submarine. Iran's Navy currently operates Ghadir and Nahang (meaning whale in Persian) submarines. According to Rear Adm. Sayyari, the Ghadir submarine is equipped with the latest military and technological equipments.

On 26 November 2008 the Commander of the Islamic Republic Army's Navy Rear Admiral Habibollah Sayyari said that in next 15 days another Ghadir class submarine would be delivered to the Navy. Sayyari told reporters after touring IRNA head office that the submarine has been designed and built by Marine Industries Organization. He said moreover, a light submarine will join the Navy's fleet on the Navy Day. He added that once the submarines join the Navy, its deterrent power deep inside the sea will increase dramatically. This would mark possibly the fourth submarine in this class.

Reportedly being mass produced [reportedly at a cost of \$18 million each], the first of this class, Ghadir, has been paraded for the press. Although generally described as a mini-submarine, it is rather larger than Iran's other mini-subs. The Ghadir, with an estimated displacement estimated at between 120 tons and 500 tons, is probably better described as a littoral submarine, similar in concept to the Italian Sauro class though significantly smaller. Photographs indicate it has a pair of bow torpedo tubes which appear to be 21" allowing them to fire typical heavyweight torpedoes. It could thus serve as a launch platform for the infamous Shkval rocket torpedo, which has been transferred to Iran.

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#### Yono Class / Ghadir Class

##### Specifications

##### Physical

Displacement (Submerged) 120 tons

Length 29 m

Beam 2.75 m

##### Performance

Speed (Surfaced) 11 knots

Speed (Submerged) 8 knots

##### Armament

Torpedo 2 533mm torpedo tubes (also capable of launching mines)

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#### SSC Sang-O Class

While the North Korean submarine force reflects dated technology by Western standards, North Korean submarines during wartime would present significant challenges, particularly in coastal areas. North Korea has placed high priority on submarine construction programs which are ongoing despite its economic hardships. An example of this is the SANGO SSC, a simple submarine constructed in two variants, for use in the covert insertion of Special Operations Forces (SOF), mining or antisurface warfare. The submarine comes in two different variants, one with torpedo tubes and the second without but with the capability to lay mines.

The Sang-O (Shark) class submarines are used for special forces infiltration into South Korea and have at times been captured by ROK forces. According to Janes Fighting Ships 2002-3 Sang-o class submarines began to be constructed in 1991 at Sinpo and were being constructed at 4-6 a year by 1996. Reports indicate that only three were built in 1997 and it is unclear what was produced in the following years.

Bitter enemies since the outbreak of war in 1950, the two Koreas remain divided by the most heavily guarded border in the world - one the North regularly attempts to penetrate. The 18 September 1996 grounding of a North Korean submarine filled with 25 heavily armed commandos - stunned the South as communist soldiers waded ashore 90 miles northeast of Seoul. Deadly skirmishes followed for two months as the commandos attempted to flee north, with most of the team being killed along with several South Korean soldiers and innocent civilians. The North Korean submarine got stranded on some underwater rocks, forcing the crew to get out and try to return to North Korea. This prompted a deadly manhunt that lasted over a month (25 of the 26 crew members were shot dead and the South Korean casualties, civil and military, tallied 17).

Once inside the submarine one really wonders how 26 people could have fit in such a cramped space &ndash; let alone

live. Following this incident, North Korea officially apologized and assured that he would do all his best to prevent such a thing from happening again. Two years later another submarine, a much smaller Yugo class, was found entangled in South Korean fishing nets

Unification Park is composed of unification security pavilion. It was opened in September 26, 2001. To display the tanks and field artillery additionally in the outdoor exhibition area in the future, revitalization of local economy can be achieved in connection with the Jeongdongjin Sunrise Resort displaying the artillery of the armed forces for the first time in the nation. In addition to the pavilion of North Korean submarine moved and displayed in the site in May 1998, the retired warship, Jeonbukham, was lent for free to Gangneung in order to be reused as an education arena of national security culture from the navy.

#### Specifications

Displacement: tons submerged, surfaced

Length 116.5 ft

Beam 12.5 ft

Draft 12.1 ft

Propulsion Diesel electric

Maximum Speed 7.6 kts surfaced

7.2 kts snorting

8.9 kts submerged

Mines 16?

Torpedoes 2-4 21 inch tubes (533mm) [in some]

Russian Type 53-56 torpedoes

Crew 19 + 6 divers