



NEWS RELEASE

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Factsheet - Pacific Reach 2000 Media Package

18 Sep 2000

Japan Maritime Self-Defense Force

- JDS CHIYODA (AS 405) (Submarine Rescue Support Vessel)
- Deep Submergence Rescue Vehicle (Submarine Rescue Asset)
- JDS AKISHIO (SS 579) (Submarine)

Republic of Korean Navy

- ROKS CHEUNG HAE JIN (21) (Submarine Rescue Support Vessel)
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- ROKS CHOI MOO SUN (Submarine)

Republic of Singapore Navy

- M/V KENDRICK (Submarine Rescue Support Vessel)
- RSS PERSEVERANCE (L206) (Command Platform)
- RSS CONQUEROR (Submarine)

United States Navy

- Submarine Rescue Chamber (Submarine Rescue Asset)
- USS HELENA (SSN 725) (Submarine)

Japan Maritime Self-Defense Force

National Archives of Singapore



SUBMARINE RESCUE SUPPORT VESSEL

JDS CHIYODA (AS 405) is a "Submarine Rescue Tender" for conducting advanced rescue operations on submerged, disabled submarines of the JMSDF and is intended to serve as a command platform for submarine rescue and be able to carry and launch Deep Submergence Rescue Vehicle (DSRV).

She is equipped with a dynamic positioning system enabling it to remain stationary over a point on the seabed without anchoring. Also onboard is a large pressure chamber system, which can accommodate divers for several weeks in connection with diving operations. The chamber can also be used for recompression treatment of rescues from disabled submarine.

The diving system permits diving operations during saturation diving down to a depth of 300m. She also has the ability to furnish logistic support for submarines of the JMSDF.

CHARACTERISTICS

Builder : MITSUI, TAMANO

Length : 113 metres

Breadth : 17.6 metres

Displacement : 3650 tons (Standard)

4450 tons (Full Load)

Speed : 17 knots

Draft : 4.6 metres

Complement : 120

Diving Depth : 300 metres (Saturation Diving)

Rescue System : Deep Submergence Rescue Vehicle (DSRV)

Commissioned : 27 Mar 1985

National Archives of Singapore



SUBMARINE RESCUE ASSET

Deep Submergence Rescue Vehicle (DSRV) performs rescue operations on submerged disabled submarines of the JMSDF. DSRV is designed for quick deployment in the event of a submarine accident.

The DSRV was built by Kawasaki, Kobe, Co. and commissioned in 1985.

DSRV is transportable by JDS CHIYODA (AS 405). At the accident site, DSRV will dives, conducts a sonar search and then attach itself to the disabled submarine's hatch. DSRV can embark up to 12 personnel for transfer to JDS CHIYODA.

CHARACTERISTICS

Builder : KAWASAKI, KOBE, CO.

Length : 12.4 metres

Breadth : 3.2 metres

Displacement : 37.7 tons

Speed : 4 knots (maximum)

Complement : 2 pilots + 12 passengers

Sonar : Search and navigation

National Archives of Singapore



SUBMARINE

JDS AKISHIO (SS 579) is the 7th Submarine of the YUUSHIO Class. Designed to conduct various kinds of operations, including patrol, defense of straits, seek and destroy enemy submarines and surface ships.

The weapon system comprises six torpedo tubes for launching Japanese designed and manufactured Type 80 or 89 wire-guided torpedoes and American Sub-Harpoon missiles.

CHARACTERISTICS

Builder : MITSUBISHI, KOBE

Length : 76 metres

Breadth : 9.9 metres

Displacement : 2250 tons (standard)

Speed : 12 knots (surfaced)

20 knots (submerged)

Draft : 7.4 metres

Complement : 75

Commissioned : 5 Mar 1986

National Archives of Singapore

Republic of Korean Navy



SUBMARINE RESCUE SUPPORT VESSEL

ROKS Cheung Hae Jin main role is to provide submarine rescue and salvage with SSU, ASR & ATS.

Other roles include replenishment at sea and fuelling at sea.

CHARACTERISTICS

Builder : ROK DAE WOO SHIPYARD (1996)

Length : 102.08 metres

Beam : 16.4 metres

Displacement : 4330 tons

Speed : 19.4 knots (maximum)

15 knots (cruising)

Complement : 138

Capability : Saturation Diving (300 metres)

1 x DSRV

Chamber : 2 x Saturation Diving Chamber

1 x Medical Chamber

National Archives of Singapore



SUBMARINE RESCUE ASSET

CHARACTERISTICS

Builder : SLINGSBY LTD. UK (1995)
Length : 9.6 metres
Breadth : 2.95 metres
Displacement : 21.4 tons
Speed : 2.27 knots (forward maximum)
1.64 knots (astern maximum)
1.4 knots (cruising)
Complement : 2 crew + 10 personnel
Capability : Operation depth : 457 metres
Maximum depth : 722 metres
Ops Limits : Current speed : 2 knots



SUBMARINE

ROKS Choi Moo Sun

CHARACTERISTICS

Builder : ROK DAE WOO SHIPYARD (1993)

Length : 56 metres

Breadth : 5.5 metres

Displacement : 1,100 tons (surfaced)

1,285 tons (dived)

Speed : 11 knots (surfaced)

22 knots (submerged)

Complement : 33

Capability : Operation diving depth : 250 metres

Republic of Singapore Navy



SUBMARINE RESCUE SUPPORT VESSEL

M/V KENDRICK was built in Poland in 1985 and acquired by Offshore Valour Marine Services in 1992. Classified by Bureau Veritas (BV), the vessel is certified annually by one of the most highly regarded classification societies in the world. This has ensured the vessel's adherence to a high level of engineering and safety standards.

Her primary roles include:

- To support the role of a Submarine Rescue Support Vessel.
- To operate the ROV.
- To conduct the deployment of ELSS pods to the submarine.

CHARACTERISTICS

Builder : SZCZECIN SHIPYARD, POLAND (1985)

Length : 81.4 metres

Breadth : 16.3 metres

Displacement : 2,737 tons (Gross)
822 tons (Nett)
Speed : 15 knots (maximum)
13 knots (cruising)
Draft : 4.9 metres



COMMAND PLATFORM

RSS PERSEVERANCE, "Sir Lancelot" Class Landing Ship Logistic (LSL), pennant number L206, was acquired by the Republic of Singapore Navy (RSN) in 1992. She serves under the 191 Squadron as part of the Third Flotilla.

The RSN acquired MV Lowland Lancer in Oct 1992 as part of its effort to upgrade its fleet of support ships. MV Lowland Lancer arrived in Singapore on 21 Nov 1992 with a core crew of RSN personnel onboard. She then underwent a major retrofitting and upgrading in local shipyard.

The ship was commissioned as a RSN man-of-war on 5 May 1994.

Equipped with two 20-ton cranes and two 3-ton cranes, the ship was designed to carry troops, stores and vehicles. Propelled by two Ruston main engines, she has a top speed of 15 knots, can carry two Fast Craft Equipment Personnel (FCEP) on davits and can take a helicopter on her heli-deck. All operational and accommodation spaces are air-conditioned for crew comfort. With the return of our submarines, 2 X 20 man hyperbaric chambers have also been fitted.

CHARACTERISTICS

Length : 125 metres
Breadth : 18 metres
Displacement : 5500 tons
Speed : 15 Knots
Draft : 4.2 metres
Complement : 6 Officers and 55 men
Commissioned : 5 May 1994



SUBMARINE

RSS CONQUEROR is a single hull, teardrop shaped and double decked ex-Royal Swedish Navy (RSwN) Sjöormen Class submarine.

The boat was launched to the services of the RSwN in the late 60s. For almost 30 years, she served reliably in the RSwN and was phased out and de-commissioned in the early 90s.

In 1995, the Republic of Singapore Navy (RSN) purchased one of the Sjöormen Class submarine from Kockums AB and renamed her RSS CHALLENGER - the first submarine belonging to the RSN. Following RSS CHALLENGER, 3 other submarines of the same class were acquired by the RSN, one of which is RSS CONQUEROR.

Following in the footsteps of her sister submarine RSS CONQUEROR was tropicalised for operation in Singapore waters and her aging equipment replaced with modern ones. She was delivered to Singapore on 2nd May 2000 and became the first RSN submarine to operate in Singapore waters.

CHARACTERISTICS

Length : 51 metres

Breadth : 6.1 metres

Displacement : 1130 tons (Surfaced)

1200 tons (Submerged)

Speed : 10 knots (surfaced)

16 knots (dived)

Draft : 5.6 metres (surface)

Complement : 7 Officers and 21 men

Commissioned : 22 Jul 2000

United States Navy



SUBMARINE RESCUE ASSET

The Submarine Rescue Chamber (SRC) is a flyaway system capable of worldwide submarine rescue missions. Once launched, the SRC is able to operate around the clock. It is operated by the Diving Systems Detachment of the U.S. Navy's Deep Submergence Unit.

Some of the components include;

- Upper compartment - House operators, passengers and controls.
- Lower compartment - Blown dry after mating to transfer personnel. Contains downhaul drum and spooling devices.
- Ballast tanks - Flooded during mating process to provide additional weight.

CHARACTERISTICS

Maximum depth : 260 metres

Displacement : 9.6 tons / 21,600 lbs (Dry)

0.45 tons / 1,000 lbs (In Water)

Complement : 2 operators + 6 passengers

Transport : Flyaway capable on one C-5 or two C-17s



SUBMARINE

USS HELENA (SSN 725), a 688-class nuclear attack submarine is the 37th ship of the Los Angeles class of submarines and is the fourth United States ship to bear the name of the capital city of the state of Montana.

USS HELENA is modified from the original Los Angeles class submarine, incorporating many changes and improvements over the original design including vertically launched TOMAHAWK cruise missile capability, an improved reactor core, and an advanced sonar suite.

CHARACTERISTICS

Builder : GENERAL DYNAMICS CORPORATION (1984)

Length : 109.8 metres

Breadth : 10.1 metres

Displacement : 6927 tons (Surfaced)

7038 tons (Submerged)

Speed : Excess of 25 knots

Draft : 9.75 metres

Complement : 14 officers + 120 enlisted

News Release:

- FPDA Joint Air Defence Seminar 2000 (MINDEF_20000908185)