

EMERAUDE SSN Class

(S 604) type Rubis



The nuclear submarine attack *Emeraude* is the fourth copy of a series of six submarines built by DCN : *Rubis*, *Saphir*, *Casabianca*, *Améthyste*, *Perle*.

Missions

Missions of *Emeraude* SSN Class can be rallied in three types :

- **Support of the different Navy components, as :**
 - support of the Strategic Ocean Force (FOST), security of SSBNs, antisubmarine warfare
 - support of naval forces (FAN), anti-ship and anti-submarine warfare
- **Attendance :**
 - covert surveillance of costal zone
 - sea road traffic control
 - picking up information.
- **Operations in hostile environment :**
 - destruction of ships and submarines
 - bring commandos into operation minelaying

Remarks

As the *Rubis* SSN Class, they have been overhauled in *Amethyste* batch in 1994 (the main improvement concern tactical, hydrodynamics, quietness, radio-communications and sonar listening). They are now based in the Mediterranean Submarine Squadron..

Characteristics

- Displacement : 2670 t at depth / 2385 t at surface
- Dimensions : 73,6 x 7,6 m
- Maximum speed : 25 kts in diving
- Maximum submersion : upper than 300 m
- Propulsion : Nuclear boiler room providing steam to two turbo alternators, 1 main electric engine swinging the propeller directly, 1 diesel group generator for relief propulsion.
- Complement : 10 officers, 52 petty officers, 8 ratings
- Weaponry : equipped with 4 launch tubes, this submarine is able to attack several targets with F17 Mk2 wire guided torpedoes, SM 39 antiship missiles of the Exocet family, mines.