

Table of Contents

Features:

CaS Scenario: Operation Tembu	2
New Faces in the Russian Fleet	4
The UCAV Arrives	7
Chinese Flank Attack	7
You Are What You Fight	8
Unconventional Mine Warfare	9
Russian Cruise Missile	
and Bomber Upgrades	11
Storm Shadow Deploys	15
Alternate Capital Ship Designs	
of the Imperial German Navy	16
Using Tomahawk in <i>Harpoon</i>	20
New Chinese Ships and Weapons	30

Products:

Product Updates	1
New 1/1250 Figurehead Releases	3
New 1/2400 Releases from	
The Viking Forge	3

Rules Changes & Clarifications:

MAD Detection	1
Submarine Flooding	1
New EO Rules	19
Land Attack Missile Rules	23
Smarter (and Simpler) Radar in <i>H⁴</i>	25

Departments:

Alerts	14
Book Reviews:	
<i>Soviet Long Range and</i>	
<i>Naval Aviation Missiles</i>	13
<i>Seapower and Space</i>	23
<i>Ordeal by Exocet</i>	24
<i>Russian Air Power</i>	31

Cover: (Top) Chinese Type 052 DDG under construction, (Bottom) Chinese Su-30MKK Flanker C.

Product Updates

Harpoon

High Tide is at the printer, although it's been a fight getting it there. We brought on some extra reviewers, and they did a great job. It will be out this summer.

I'll use *High Tide* as an explanation, but not an excuse, for the lateness of this issue of the *SITREP*. I normally start working on the April issue in February. This time I couldn't even think about the *SITREP* until the end of March, and it's mid-May as I write this. My apologies, and I'll try much harder to have October's issue match the calendar.

Dave Schueler is working hard on *Harpoon Naval Review '03*. He's still looking for articles. Contact him through us.

Command At Sea

Mighty Midgets is at the printers. Next up is Christoph Kluxen's *Baltic Arena*, and *Atlantic Navies* after that.

Baltic Arena will cover German and Soviet naval operations during WW II in the Baltic.

The *Naval SITREP* is edited by Larry Bond and is published biannually by the *Admiralty Trilogy* Group (AdmiraltyTrilogy.com). Price per digital issue is \$3.00 US. Article contributions should be sent to AdTrGroup@aol.com. Include name, postal address, and phone number. The *Admiralty Trilogy* is a registered trademark of Larry Bond, Chris

For the Computer

SSI's *Harpoon⁴* has been slipped to fall 2003. Watch www.ubi.com/US/Games/Harpoon4 for developments.

A New Magazine

Everyone should look at *Waypoint*, the new magazine of the *Harpoon* computer gaming community. It discusses recently-posted scenarios, tactics, changes to the computer games, and naval warfare and technology.

It is available for download from the *Harpoon* Headquarters site; <http://www.harpoonhq.com/waypoint/>

Some features of the March 2003 issue include:

- New scenarios in "The Docks": Canary's Cage (H2/3), Shallow Waters (H2/3), Back to Baghdad (H2002)
- Realistic aircraft ready-times: A milestone for *Harpoon*.
- JED Special: Electronic defense for frigates & destroyers
- Airstrikes 101: Build your own "shock and awe" package.
- Nucflash: An unlikely scenario ... or maybe not?

BT

Carlson, Ed Kettler, and Mike Harris. *Harpoon* is a registered trademark of Larry Bond and Chris Carlson. *Command at Sea* is a registered trademark of Larry Bond, Chris Carlson, and Ed Kettler. *Fear God & Dread Nought* is a registered trademark of Larry Bond, Chris Carlson, Ed Kettler, and Mike Harris.

©2021 The *Admiralty Trilogy* Group

Harpoon⁴ Rule Clarifications

MAD Detection

Question: Within what range of an umpteen thousand GRT of ferrous hulled surface vessel would MAD be ineffective for detecting a second ferrous hull contact? And does there need to be a *Harpoon* rules note about this?

Answer: You are correct. MAD would be useless in this instance. Since merchants are usually larger than a submarine, their magnetic signature would be greater. In addition, all submarines

are deparmed to reduce this signature and many nuclear submarines also have degaussing systems to keep their magnetic signature low.

Finally, the ship is closer to the sensor and since MAD operates on the 1/R³ principle, there is virtually no chance for the Patrol aircraft to distinguish the very small submarine signature from the large merchant one.

As for a rule change, yes. Add a sentence to section 4.7 Magnetic Anomaly Detection. "Surface ships

within 2,000 yards of a submarine of the same size class or larger mask the sub's magnetic signature."

Submarine Flooding

In section 7.3.2.7 Flooding, on page 7-4, delete the paragraph that starts "If a sub suffers a flooding critical, it is automatically severe."

It contradicts the following paragraph, and is kinda harsh.

BT

CaS Scenario: Operation Tembu

by Adam Adkins

Environment: Night, visibility 10%, sea state 4. Wind direction 250°, speed 20 knots. Dawn is at 0535.

Location: Somewhere in the Philippine Sea, 2324 on 3 Apr, 1945 (Showa 18).

British Operational Situation: The British Pacific Fleet, designated TF 57 and assigned in support of the fast carriers of American TF 58, carried out strikes on Sakishima Shoto, an island group south of Okinawa, starting on 1 April 1945. Kamikaze attacks on TF58 started on the same day, and the carrier *Indefatigable* was hit in the morning, along with the destroyer *Ulster*. *Indefatigable* was operational again within the hour. In the evening, the *Illustrious* task group was surprised by another flight of kamikazes, which managed to evade detection until they were 15 miles out. Hellcats of the CAP could not find them, and the next sign of them was as they were diving on their targets. One of them hit *Illustrious* as she was fueling and arming planes, diving through the open elevator before exploding in the enclosed hangar. Damage was heavy and casualties enormous, but quick and heroic damage control put out the resulting fires before the ship had to be scuttled.

British Tactical Situation: *Illustrious* and *Ulster* have been sent back to Leyte under tow. An escort of two long-range W-class destroyer conversions will protect them on the journey.

British Forces:

Illustrious (*Illustrious* class CV), Captain C. E. Lambe, under tow by two fleet tugs, *Lipan* and *Apache* (both *Apache* class ATF)

Ulster ('R' class DD), under tow by HMNZS *Gambia* (Colony class CL), Captain R. A. B. Edwards.

Wallace and *Whitehall* (long range 'W' class), 27th Destroyer Flotilla

British Orders: Escort the damaged vessels safely to Leyte.

British Victory Conditions:

Decisive: Avoid further damage to *Illustrious*, and inflict more damage points than are taken.

Tactical: Avoid further damage to *Illustrious*.

British Setup: Open ocean. Formation and movement at the discretion of the British players.

Special Rules: Maximum speed while towing another vessel is 5 knots, and the maximum turn rate is 5° per Tactical Turn. Turns greater than 5° automatically part the towline.

Acceleration maximum is 1 knot per Tactical Turn.

Every Intermediate Turn, check the towline for parting. In the current sea state the chances are:

Speed (kts)	1	2	3	4	5
Chance of Parting	5%	10%	15%	20%	25%

Special Notes: Remember to include emissions status on turn orders.

Japanese Operational Situation:

Earlier kaiten (manned suicide torpedo) operations against the American navy while in harbor have had limited success. They have also been disastrous for the submarine force, with losses to our subs and sailors being very heavy, as our forces withdrew from the closely defended harbors.

Operation Tembu (Heavenly Warrior) is designed to hurt the US forces in the forward battle area by sitting astride their supply line between Okinawa and Ulithi, attacking their supply convoys while avoiding their heavy harbor defenses.

In this hypothetical scenario, the kaiten have found the *Illustrious* group.

Japanese Tactical Situation: *I.47* and her "Never Die" crew, along with *I.36*, have been assigned adjacent patrol areas athwart the Okinawa - Ulithi line. A message has been received from Admiral Miwa's 6th Fleet headquarters with news of a British carrier that has been badly damaged by our kamikaze warriors on April 1.

Japanese Forces:

I.47, Captain Orita Zenji (*I.46* class SS)

I.36, Commander Sugamasa Tet-suaki (*I.15* class SS)

Each submarine carries 6 kaiten.

Japanese Orders: Intercept the retiring British units and sink the damaged carrier.

Japanese Victory Conditions: *Decisive:* Sink the crippled carrier, and escape with no losses. *Tactical:* Inflict more damage points on the British forces than are received.

Japanese Setup: Open ocean. The Japanese set up across the enemy's known bearing of 170° at 10 nm. Spacing is up to the Japanese players.

Special Rules: The kaiten are launched from the decks of the mother submarines. It takes one Tactical Turn to prepare and launch each kaiten. Only one can be launched per turn. Launch must occur while submerged, at periscope depth.

Kaiten are launched at a target much the same as a regular torpedo, and move at 30 knots. They are controllable by the pilot. On the turn of launch, each unit plots a course and the distance from the launch point where they will slow and come to periscope depth to take final bearings to the target, ideally about 400 – 600 yards. Final hit determination for the torpedo run is taken from the last point from which the pilot takes a bearing.

New 1/1250 Figurehead Releases

The following new 1/1250 Coastal Force miniatures were announced at Cold Wars in March. They are all available as of April:

CB10 Harbor Defence ML x4	\$4.50
CB21 Fairmile A ML x4	\$6.50
CB22 Fairmile B ML x4	\$5.45
CB23 Fairmile C MGB x4	\$5.45
CB25 Fairmile D MTB x4	\$6.50
CB27 Fairmile D MGB/MTB x4	\$5.45
CB28 Fairmile B ASR (RML) x3	\$5.45
CG47 Siebel Gun Platform x2	\$6.50
CG81 Type VIIC '41 - '43 x1	
Type VIIC '43 x1	
Type VIIC Flak x1	\$6.50
CU11 Elco 70' (wpnfit 1) x4	\$4.50
CU12 Elco 70' (wpnfit 2) x4	\$4.50
CU13 Elco 77' (wpnfit 1) x4	\$4.50
CU14 Elco 77' (wpnfit 2) x4	\$4.50
CU15 Elco 80' (wpnfit 1) x4	\$4.50
CU16 Elco 80' (wpnfit 2) x4	\$4.50
CU17 Higgins 78' (wpnfit 1) x 4	\$4.50
CU18 Higgins 78' (wpnfit 2) x 4	\$4.50
CT11 MAS 501/MAS 526/536 x4	\$4.50
CT13 MAS 552/555 x4	\$4.50
CT23 MS II x4	\$6.50
CT24 VAS I/VAS II x4	\$6.50
CT25 VAS III x4	\$6.50
CT41 Schooner x2	\$4.50
CT42 Caïque x2	\$5.45

Figurehead also plans to release a new batch of modern 1/6000s this summer, hopefully in time for Historicon.

BT

(New EO Rules, continued from page 19)

when he makes the lock. Before and after that, he can maneuver freely or fire another weapon. He can only lock one inflight missile onto a target at a time.

BT

Special Notes: Japanese vessels have radar and ESM. Include emissions status on turn orders.

Kaiten Type 1 have a 1550 kg warhead, which inflicts 258 damage points when they hit. Their range is 12.3 nm at 30 knots, 23.2 nm at 20 knots, and 41.9 nm at 12 knots. Their maximum speed is 30 knots. They have a maximum depth of shallow, and have two damage points.

Because kaiten do not have a fire control computer, their attack is less accurate than a torpedo attack from a conventional sub. During resolution, reduce the kaiten's chance to hit by dropping down four range steps.

New 1/2400 Releases from The Viking Forge

The following new 1/2400 miniatures were released this spring from The Viking Forge. Check out their new website at vikingforge.datasquire.net.

Pre-Dreadnought Era

Japan

3019 AC Yakumo	\$5.95
3020 AC Adzuma	\$5.95
3021 PC Itsukushima	\$4.95
3022 PC Tsushima	\$4.95

Russia

3064 BB Sissoi Veliki	\$5.95
3065 BB Emperor Alexander II	\$5.95
3066 BB Emperor Nikolai I	\$5.95
3067 BB Vladimir Monomakh	\$4.95

3068 AC Rossia	\$5.95
----------------	--------

3069 AC Gromoboi	\$5.95
------------------	--------

3070 PC Sviatlana	\$4.95
-------------------	--------

3071 PC Variag	\$5.95
----------------	--------

3072 PC Askold	\$5.95
----------------	--------

3073 PC Bayan	\$4.95
---------------	--------

United States

3082 PC Charleston	\$4.95
--------------------	--------

3083 PC Cincinnati	\$4.95
--------------------	--------

Spain

3028 OC Isla De Luzon (2)	\$5.95
---------------------------	--------

3029 UC Alfonso XII	\$4.95
---------------------	--------

3030 PC Reina Regente	\$4.95
-----------------------	--------

3084 DD Furor (5)	\$5.95
-------------------	--------

World War II

Germany

3207 DD Type 1934 Lebrecht Maas (4)	\$6.95
-------------------------------------	--------

3208 TB Type 1939 (4)	\$6.95
-----------------------	--------

Great Britain

SB114 Freighter Ulysses	\$4.95
-------------------------	--------

Japan

3135 CA Furutaka	\$5.95
------------------	--------

BT

Historical Outcome: According to the captains involved, Operation Tembu was a great success. In a war patrol that started on April 20th and ended on May 12th, *I.47* claimed six kills (five by kaiten and one by conventional torpedo attack), and *I.36* claimed eight (four kaiten and four conventional).

The "Never Die Crew" of *I.47* is a creative arrangement of the sub's name in Japanese. When combined, *shi* (4), *nana* (7) and "I" make the word *shinana*, an imperative meaning "never die." Historically, they actually did refer to themselves as the "Never Die Crew."

BT

New Faces in the Russian Fleet

by Larry Bond

The Russian shipbuilding industry continues to produce ships, although at a very slow rate. In July of 2002, the first vessel of the Project 1166.1 Gepard (project name) class was commissioned as *Tatarstan*, and now serves as the flagship of the Caspian Sea Flotilla. This was the first major combatant to be laid down and commissioned into the Russian Fleet after the breakup of the Soviet Union.

Tatarstan follows one of several alternative designs, all part of the Gepard series. Variants include a version with a helicopter hangar, and another optimized for search and rescue work.

Originally, three hulls were planned, and two started. *Yastreb* (later reamed *Tatarstan*) was laid down in September 1992, and *Burevestnik* was started in 1993. It would have been built as a "Gepard 2," with a helicopter hangar. A third unit, *Albatros*, was started in 1994.

Although *Tatarstan* was essentially complete by 1995, work on all three units lagged until 1999. With the three ships 93%, 67%, and 40% complete, funds were found for the completion of *Tatarstan*. The money may have come from the Republic of Tatarstan itself, where the ship is now serving. The other two have not been canceled, but they are not being worked on, either.

On 21 December 2001, the keel of the new frigate *Steregushchy* was laid at Severnaya shipyard.

Steregushchy ("guarding") is a more powerful (and expensive) unit, with a larger gun, 100mm instead of 76mm, a Kinzhal [SA-N-9] system instead of the older Osa-2M, and the new 3M54 Klub instead of the Kh-35. Although it was originally planned for series production of 20-25 units, that has been cut back to four.

The two ships have been called both frigates and corvettes. Both are a little large for corvettes, but *Tatarstan's* coastal role makes the FFL designation appropriate. The larger *Steregushchy* is better typed as a frigate.

Laid down at Yantar shipyard in 1997, between *Tatarstan* and *Steregushchy*, another new design, *Novik*, is still uncompleted, and much more of a mystery. She was officially canceled in 1998, but money continued to be allotted for construction - not much, just enough to keep the lights on at the shipyard. Then in 2001, construction was canceled again, but work continued, possibly with local funding. In 2002, money was allocated in the budget once again. Recently, Russian officials insisted she had not been canceled, and would be completed eventually.

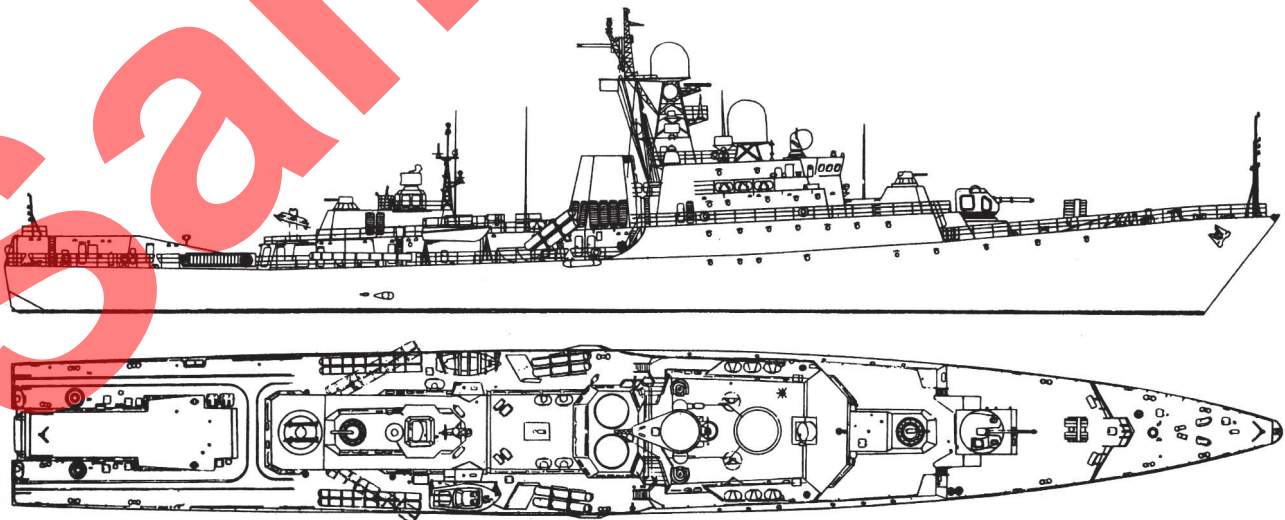
Novik's weapons suite is almost entirely conjectural. It's hard to tell with the hull 20% complete what weapons she will carry, and with construction proceeding so slowly, they could change her suite, depending on many factors.

As described by A.S. Pavlov and others, her planned weapons include vertical launchers for the Poliment SAM and Onyx SSM on each side of the hangar, the Medvedka ASW missile, an AK-190 100mm and the AK-630M1, a new twin 30mm rotary variant of the AK-630, with the two guns mounted in an over-and-under configuration. She also carries a helicopter.

Poliment is a new SAM, a naval version of the S-400, based on the 9M96 active-radar homing missile.

Any of these configurations could have been completed by 2001 or 2002 at the latest, using standard shipbuilding rates. If enough funding could be found, she could be complete in two years. At her present rate, she may be obsolete by the time she is launched. The only positive part of the situation is that the yard remains open, waiting and hoping for better times.

BT



Project 1166.1 frigate *Tatarstan*

Rozvoorouzhenie

Project 1244.1 Novik

Displacement: 3000 std
Acoustic Countermeasures: 2nd Gen Twd
Electronic Countermeasures: 3rd Gen D
Propulsion: ???
Size Class: Small

Weapons:

F&A(3)6 Oniks VL w/3 msls
 F(1)1 A-190 100mm/59//
 1 MR-123 Vympel [Bass Tilt]
 F(2R)1 AK-630M1 30mm/54 w/15 bursts
 //1 MR-123 Vympel [Bass Tilt]
 F&A(8)4 Poliment w/8 msls
 PB&SB(4)2 Medvedka w/4 msls
 Aft Pad(1)1 Ka-27PL

Sensors:

MR-760 Fregat-MA [Top Plate], MR-352 Positiv [Cross Dome]
 MGK-335M hull and VDS

Remarks:

Keel laid 26 July 1997. Typed as SKR (Multipurpose patrol ship). Fitted with fin stabilizers. Canceled on 28 Jan 97, but the budget has continued to provide some small funding for construction. Only 20% complete in 2000. Authorized for sale, but no takers.

Damage and Speed Breakdown:

Dam Pts:	0	25	49	74	88	98
Surf Speed:	31	23	16	8	0	Sinks

FF

In class: 0+1
In Service: ????
ESM: 3rd Gen
Crew: 165
Signature: Small/Noisy

ROF

(8) **D**
 (8) **C**
 (?) **C**
 (1) **D**
 (1) **E**
B

Sensors:

MR-352M Positiv-M1 [Cross Dome], Garpun B [Plank Shave B] **J**
 2 MR-212 Vaygach-U [Palm Frond], FR-2130S nav **J**
 Zarya LF hull, Minotavr VDS **M**

Remarks:

Steregushchy, Soobrazitelny. Multipurpose coastal patrol vessel. First of class planned to join Caspian Sea Flotilla in 2005, three more at one-year intervals. Second unit laid down 20 May 03. First two will have 3M24 Uran, later units may have F&A(16)1 3M54E Klub. Originally 25 planned, but order cut to four as costs increased. TT carry a mix of Vodopad-NK ASW missiles, Type 53-65N and SET-65 torpedoes. Fitted with fin stabilizers. Helo pad aft, no hangar. AK-630 are tied in to Kinzhal fire control system, treat as Autonomous. Can refuel and rearm Ka-27PL. GFR superstructure, special damage modifier of -15%. Project 2028.2 export variant with a helicopter hangar added offered to Iran.

Damage and Speed Breakdown:

Dam Pts:	0	13	27	40	48	53
Surf Speed:	26	20	13	7	0	Sinks

Project 1166.1 Tatarstan

Displacement: 1500 std
Acoustic Countermeasures: None
Electronic Countermeasures: 3rd Gen D
Propulsion: CODOG
Size Class: Small

Weapons:

F(1)1 AK-176 76mm/59
 //1 MR-123 Vympel [Bass Tilt] **C**
 F/A(R)2 AK-630M 30mm/54 w/15 bursts
 //1 MR-123 Vympel [Bass Tilt] **C**
 PB&SB(4)2 3M24 Uran [SS-N-25]
 w/4 Switchblade//1 Monolit (8) **D**
 A(2)1 Osa-2M [SA-N-4b] w/20 Gecko **D**
 //1 MPZ-301 Baza [Pop Group] **D**
 F(12)1 Smerch/RPK-8 [RBU 6000]
 w/6 salvoes//1 MG-311 Vychehga **E**
 PB/SB(2)2 533mm TT w/2 SET-65 **F**

Sensors:

Monolit [Band Stand], MR-212 Vaygach-U [Palm Frond] **J**
 MR-352 Positiv-M1 [Cross Dome] **J**
 MGK-335EM Platina hull & VDS **M**

FFL

In class: 1+?
In Service: 2002
ESM: 3rd Gen
Crew: 109
Signature: Small/Noisy

ROF

Project 20380 Steregushchy

Displacement: 1850 std
Acoustic Countermeasures: ???
Electronic Countermeasures: 3rd Gen D
Propulsion: CODOG
Size Class: Small

Weapons:

F(1)1 A-190 100mm//1 5P-10
 F (2R&8)1 Kortik [CADS-N-1]
 w/8 Grison & 15 bursts//1 Hot Flash (8)
 PB&SB(4)2 3M24 Uran w/4 msls (8)
 P/S(4)2 Fasta-4M w/4 Igla-M [Gremlin] (1)
 PB/SB(2)2 TR-203 533mm TT
 w/2 Vodopad-NK & torpedoes
 P&PQ/S&SQ(R)2 AK-630M 30mm/54 w/15 bursts

In class: 0+2+?
In Service: 2005
ESM: 3rd Gen
Crew: 109
Signature: VSmall/Noisy

ROF

(8) **C**
 (8) **C, D**
 (1) **D**
D
F
C

FF



Project 20380 frigate Steregushchy

Severnoye

Remarks:

Second and third units *Burevestnik*, *Albatros* laid down 1995 with modified design. Single MR-123 Vypmel director can control AK-176 and AK-630 at a single target. Fitted with stabilizers. Special damage modifier of -15% for aluminum superstructure.

- *Yastreb* renamed *Tatarstan* during construction.
- Jul 2002: *Tatarstan* commissioned.

Damage and Speed Breakdown:

Dam Pts:	0	11	22	33	40	44
Surf Speed:	28	21	14	7	0	Sinks

Project 1166.2 Gepard 2

Displacement: 1500 std
Acoustic Countermeasures: 2nd Gen Twd
Electronic Countermeasures: 3rd Gen D
Propulsion: CODOG
Size Class: Small

Weapons:

- F(1)1 AK-176 76mm/59
- //1 MR-123 Vypmel [Bass Tilt]
- F/A(R)2 AK-630M 30mm/54 w/15 bursts
- //1 MR-123 Vypmel [Bass Tilt]
- PB&SB(4)2 3M24 Uran [SS-N-25]
- w/4 Switchblade/Monolit (8)
- F(12)1 Smerch/RPK-8 [RBU 6000]
- w/6 salvoes//1 MG-311 Vychehda
- PB/SB(2)2 533mm TT w/2 SET-65
- Aft Pad(1)1 Ka-27PL Helix

Sensors:

- Monolit [Band Stand], MR-212 Vaygach-U [Palm Frond]
- MR-352 Positiv-M1 [Cross Dome]
- MGK-335EM Platina hull

Remarks:

Variant of Gepard design. Single MR-123 Vypmel director can control AK-176 and AK-630 at a single target. Fitted with stabilizers. Special damage modifier of -15% for aluminum superstructure.

Damage and Speed Breakdown:

Dam Pts:	0	11	22	33	40	44
Surf Speed:	28	21	14	7	0	Sinks

FFL

In class: --
In Service: --
ESM: 3rd Gen
Crew: 109
Signature: Small/Noisy
ROF

Project 1166.3 Gepard 3

Displacement: 2100 fl
Acoustic Countermeasures: None
Electronic Countermeasures: 3rd Gen D
Propulsion: CODOG
Size Class: Small

Weapons:

- F(1)1 AK-176 76mm/59
- //1 MR-123 Vypmel [Bass Tilt]
- F (2R&8)1 Kortik [CADS-N-1]
- w/8 Grison & 15 bursts//1 Hot Flash (8)
- PB&SB(4)2 3M24 Uran [SS-N-25]
- w/4 Switchblade//1 Monolit (8)
- F(12)1 Smerch/RPK-8 [RBU 6000]
- w/6 salvoes//1 MG-311 Vychehda
- PB/SB(2)2 533mm TT w/2 SET-65
- Aft Pad(1)1 Ka-27PL Helix

Sensors:

- Monolit [Band Stand], MR-212 Vaygach-U [Palm Frond]
- MGK-335EM Platina hull & VDS

Remarks:

Variant of Gepard design. Fitted with stabilizers. Special damage modifier of -15% for aluminum superstructure.

Damage and Speed Breakdown:

Dam Pts:	0	13	26	38	46	51
Surf Speed:	28	21	14	7	0	Sinks

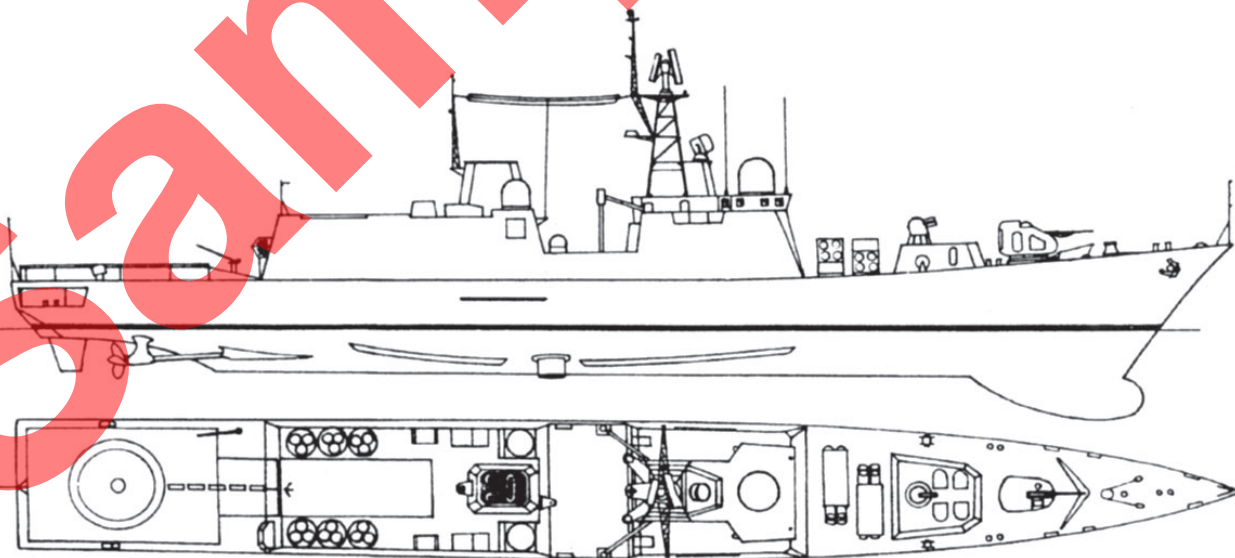
FFL

In class: --
In Service: --
ESM: 3rd Gen
Crew: 109
Signature: Small/Noisy
ROF

C
C
D
E
F
B
J
J
M

Russian Frigate Building Dates

Name	Keel Laid	Launched	In Service
<i>Soobrazitelny</i>	20 May 03		
<i>Steregushchy</i>	21 Jan 01		2005
<i>Novik</i>	26 Jan 97		???
<i>Albatros</i>	1994		???
<i>Burevestnik</i>	1993		???
<i>Tatarstan</i>	15 Sep 92	Jul 93	Aug 02



Project 1244.1 frigate Novik (provisional drawing)