

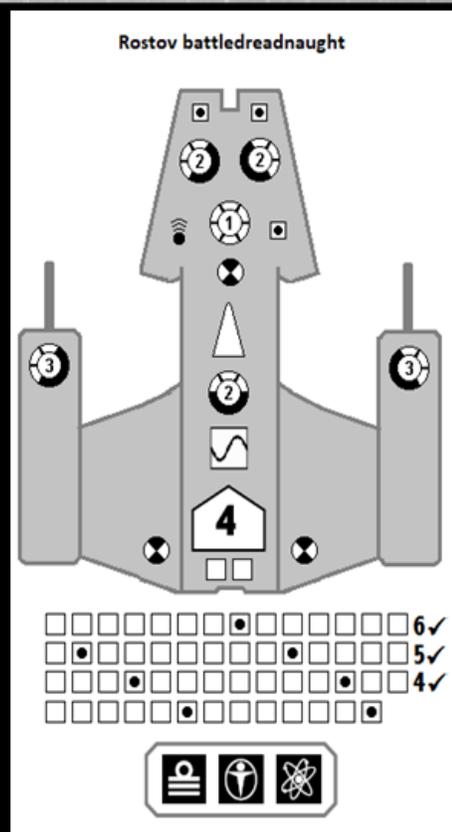
FULL THRUST

FLEET BOOK: VOLUME 1

Revised edition 2183

The ESU

Featuring new
style SSDs, low
quality/reserve
ship sheets, and
Combat Point
Value numbers.



JON TUFFLEY

Revised by Bill Stec
February 2019



Credits and Thanks

Original FULL THRUST designed and written by: *Jon Tuffley*. This publication has been produced as a free non-commercial project. All original text and rules taken from GZG's Full Thrust rules and supplements are copyright of Jon Tuffley and GZG. I have made minor changes to the text to streamline it.

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Authors notes:

I began this project as an attempt to use some old ESU vessels in one of my convention games. Not liking the then available SSDs, I decided to convert them to a more modern format, one similar to one I had been evolving for convention game use. Partway through the project, I thought that perhaps others would be interested in having them as well. I then decided to release them as a revamped ESU fleet book in the new format.

I hope they are useful to you.

I have included SSDs with 5-row hulls to simulate ships that are poorly maintained or with low crew quality/training.

To extract SSDs from the PDF file, simply right click on the graphic, and either save or copy/paste them into your graphics program of choice. The graphics were produced in Windows Paint.

THE EURASIAN SOLAR UNION STAR NAVY (VOYENNO-KOSMICHESKIY FLOT):

The ESU military space force is known in English as the Star Navy, in Russian as the Voyenno-Kosmicheskii Flot (literally Military Space Fleet) and to the Chinese-speaking peoples of the ESU as the Taikong Jiann Dwee. Most of their naval traditions are Russian in origin, and the usual acronym for the Navy is VKF; individual ships are prefixed VKK (for Voyenno-Kosmicheskii Korabl'). Merchant and civilian shipping of ESU registry is simply KK (Kosmicheskii Korabl').

The VKF emblem is, like most ESU military symbology, based on the traditional red star with a gold outline; the ESU flag is the same star, again outlined in gold, on a red field.

HISTORY AND ORGANISATION:

The VKF was formally created in 2079 with the launch of the first Eurasian FTL warships, a few years behind the NAC. Even during the period of Chinese domination of the ESU, up to the 2120s, most of the operation of the VKF was along Russian lines, as China had little more than coastal-defence navy traditions to draw on for experience. The VKF is divided into several Sector Fleets based in different "Military Districts", each district being made up of a number of colonies. The Military Districts in the Core systems and Inner Worlds are relatively small, with a single well-developed Inner Colony often being a District in its own right, while in the Outworld possessions a single District might encompass as many as a dozen small, far-flung outposts and settlements. The main base for the bulk of the fleet is at the ESU Capital world of Nova Moskva, though the Chiang Military District also has extensive base and shipyard facilities.

Many VKF personnel are conscripts, as they are in all the ESU armed forces, though others volunteer before being conscripted in the hope of a better career - a volunteer will generally rise through the ranks higher and faster than a conscript. Morale on board ship is not exactly high, but it is steady; ESU citizens are brought up to love the Motherland, and they feel a sense of honour in protecting it. VKF crew and officers, as in most navies, also feel that they are somewhat better than the other armed forces such as the ground troops (though they will make an exception for their own marines, the Naval Infantry). Conditions on board ESU warships are mediocre at best, and are certainly not up to the standard of NAC and FSE ships; accommodations are cramped (especially for the ratings), food is nutritious but unappetising, recreational facilities are very limited or nonexistent and discipline is harsh.

SHIP DESIGN DOCTRINE:

Most VKF ships are almost exclusively beam-armed (their superdreadnoughts mounting some of the largest beam systems ever installed on a mobile platform), with salvo missile systems used occasionally on a very few classes. Ships tend to be constructed with either inherently strong hulls, or have armour added over weaker basic construction; many classes carry screens as a further passive defence. Mobility is average for most ships, with some light classes being very fast but the big ships having drives of thrust-2 or 4. The majority of the VKF's fighters are operated from specialised carriers, but these ships generally have more offensive armament and tougher defences than NAC counterparts in addition to their fighter complements. Many ESU ship designs, especially the Cruiser and small Capital types, are optimised for long-term independent operations.

Explanation of drive icons:



Takes 2 hits, 1st hit = half thrust rating.



1 hit destroys this icon. Only roll for 1 icon per ship until one is lost, then roll for the 2nd one.

Lenov class scoutship

TECHNICAL SPECIFICATIONS:

Classification: Scoutship

Displacement: 600 Tons [MASS Factor 6]

Hull type: Weak [Hull Integrity 1]

Crew: 2 officers, 4 ratings [Crew Factor 1]

Armament: 1 x Class 1 battery

Defences: None

Sensor suite: Standard sensors,
1 Fire-control system

Drive systems: Main Drive rating 8,
FTL (Jump) Drive.

SERVICE DETAILS:

First entered service: 2160

Currently in ESU service: 132

Lost in action: 46

Decommissioned/scrapped: 33

Relegated to reserve fleet: 24

Sold to other forces: 58

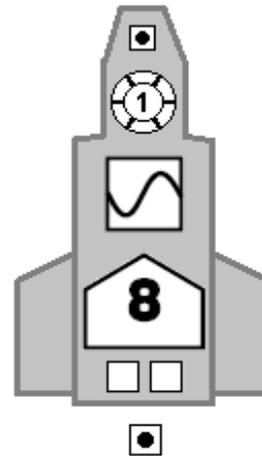
Under construction: Nil

Procurement cost: 210 MUcr.

The Lenov class is the standard ESU scout and courier craft, and has also been widely exported to other nations. A very fragile ship, the Lenov sacrifices hull strength in order to mount a powerful main drive with a high thrust rating. Like most scouts, this design was never meant to enter full-scale combat, though some refitted versions have been reported mounting a single submunition pack in place of the class 1 beam system.

Cost: NPV 21, CPV 16

Leonov scout



Nanuchka II class corvette

TECHNICAL SPECIFICATIONS:

Classification: Corvette

Displacement: 1400 Tons [MASS Factor 14]

Hull type: Average [Hull Integrity 4]

Crew: 4 officers, 10 ratings [Crew Factor 1]

Armament: 1 x Class 1, 1 x Class 2 battery

Defences: 1 Point Defence System

Sensor suite: Standard sensors,
1 Fire-control system

Drive systems: Main Drive rating 6,
FTL (Jump) Drive.

SERVICE DETAILS:

First entered service: 2177

Currently in ESU service: 89

Lost in action: 25

Decommissioned/scrapped: 6

Relegated to reserve fleet: 4

Sold to other forces: 15

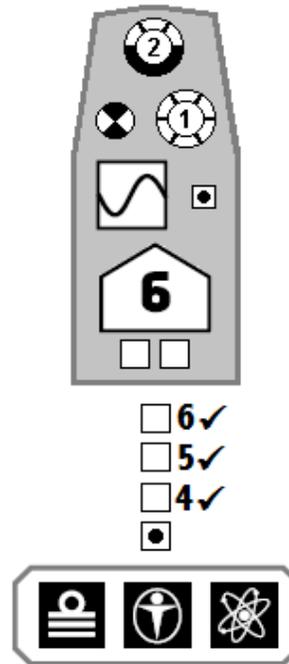
Under construction: 38

Procurement cost: 480 MUcr.

The Nanuchka II has now almost completely replaced the older Nanuchka I corvette, to which it actually bears very little similarity in appearance. The Nanuchka II is in fact a completely new design of vessel, and the retaining of the Nanuchka name is thought to be either just a quirk or a deliberate attempt at misinformation by the ESU naval intelligence bureau. The new ships are built in the same production facility at the Nova Gdansk yards that was responsible for the Novgorod FFs, and the corvettes share several design features with their "older sisters".

Cost: NPV 48, CPV 36

Nanuchka II corvette



Novgorod class frigate

TECHNICAL SPECIFICATIONS:

Classification: Frigate

Displacement: 2200 Tons [MASS Factor 22]

Hull type: Average [Hull Integrity 7]

Crew: 6 officers, 16 ratings [Crew Factor 2]

Armament: 2 x Class 1, 1 x Class 2 batteries

Defences: 1 Point Defence System

Sensor suite: Standard sensors,
1 Fire-control system

Drive systems: Main Drive rating 6,
FTL (Jump) Drive.

SERVICE DETAILS:

First entered service: 2168

Currently in ESU service: 54

Lost in action: 22

Decommissioned/scrapped: 19

Relegated to reserve fleet: 27

Sold to other forces: 17

Under construction: Nil

Procurement cost: 730 MUcr.

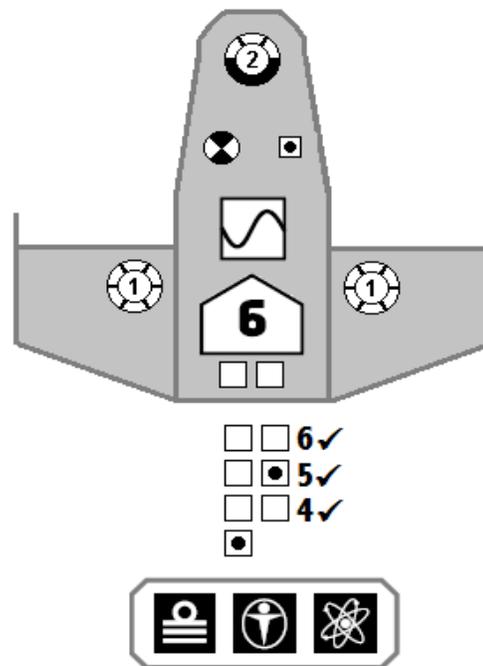
The Novgorod is just one of several FF classes currently in ESU service, including the older Riga class and the newer Grisha and Kunitsa ships; it is an unremarkable but practical design and is frequently used on convoy protection duties.

The Novgorod is moderately fast and has a reasonable armament, but is also quite a frail ship and cannot stand extended combat against larger units. Among other export sales, ten second-hand Novgorods have recently been transferred to the Pan African navy, and an order for a further six has been placed as new construction to begin in 2184.

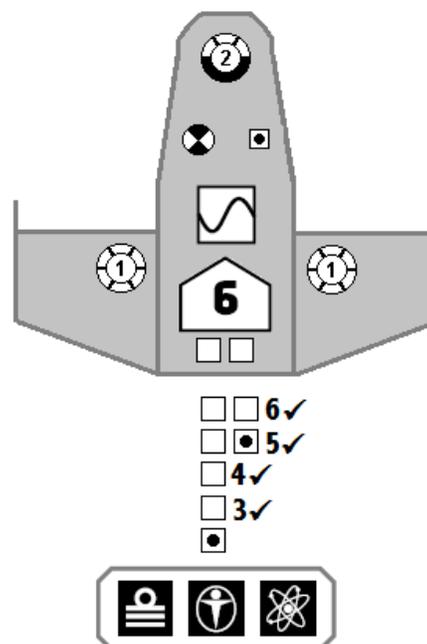
Cost: NPV 73, CPV 56

2nd line ship (5-row hull): NPV 70, CPV 53

Novgorod frigate



Novgorod frigate
(2nd line/reserve unit)



Warsaw class destroyer

TECHNICAL SPECIFICATIONS:

Classification: Destroyer

Displacement: 2800 Tons [MASS Factor 28]

Hull type: Average [Hull Integrity 8]

Crew: 7 officers, 21 ratings [Crew Factor 2]

Armament: 2 x Class 1, 2 x Class 2 batteries

Defences: 1 Point Defence System

Grade 3 Armour

Sensor suite: Standard sensors, 1 Fire-control system

Drive systems: Main Drive rating 4, FTL (Jump) Drive.

SERVICE DETAILS:

First entered service: 2166

Currently in ESU service: 97

Lost in action: 31

Decommissioned/scrapped: 24

Relegated to reserve fleet: 35

Sold to other forces: 28

Under construction: Nil

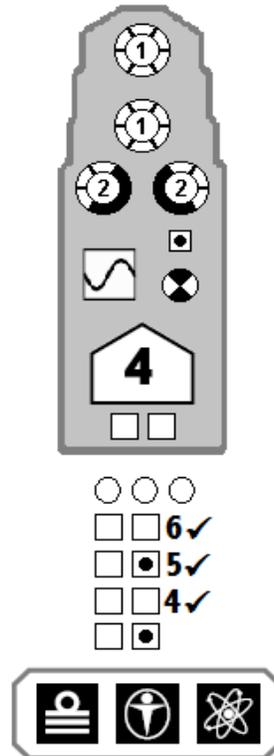
Procurement cost: 930 MUcr.

There are a lot of Warsaw class ships in ESU service; designed at the outbreak of the Third Solar War as a relatively cheap and simple DD class to reinforce the Star Navy's destroyer squadrons and replace most of the long-obsolete Krivak class, huge numbers were produced until the beginning of the 2170s. Moderately armed and protected, the Warsaw has always served well, though it is not a popular assignment for its crews - accommodations are cramped and poor even by ESU standards, to the point where the ship has been referred to more than once as the "Flying ghetto".

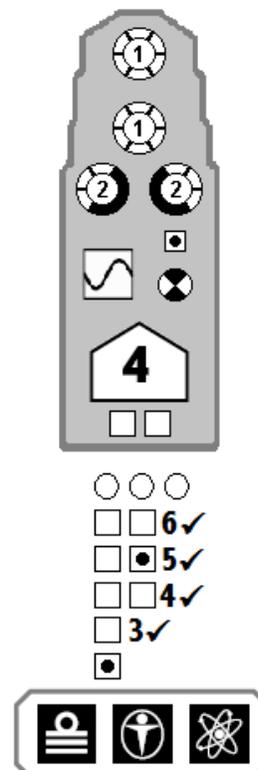
Cost: NPV 93, CPV 573

2nd line ship (5-row hull): NPV 89 , CPV 69

Warsaw destroyer



Warsaw destroyer
(2nd line/reserve unit)



Volga class super destroyer

TECHNICAL SPECIFICATIONS:

Classification: Super Destroyer

Displacement: 3400 Tons [MASS Factor 34]

Hull type: Average [Hull Integrity 10]

Crew: 8 officers, 26 ratings [Crew Factor 2]

Armament: 2 x Class 1, 3 x Class 2 batteries

Defences: 2 Point Defence Systems

Grade 2 Armour

Sensor suite: Standard sensors,

1 Fire-control system

Drive systems: Main Drive rating 4,

FTL (Jump) Drive.

SERVICE DETAILS:

First entered service: 2176

Currently in ESU service: 32

Lost in action: 12

Decommissioned/scrapped: 7

Relegated to reserve fleet: Nil

Sold to other forces: 10

Under construction: 18

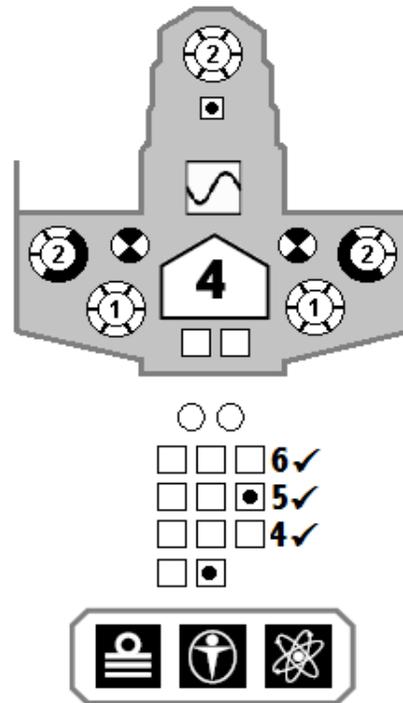
Procurement cost: 1150 MUcr.

The Volga is an enlarged redesign of the much older Warsaw DD, carrying a better armament suite and improved active defences, though it has a little less armour protection than its predecessor. The crew facilities have been upgraded somewhat over the almost squalid conditions aboard the Warsaws, though it must be said that the "Officers' Country" rather than the ordinary ratings' quarters has received the bulk of the improvements. Volgas and Warsaws serve together in most Star Navy task forces, and construction of the Volga is continuing steadily at the Nova Gdansk and Chiang/D yards.

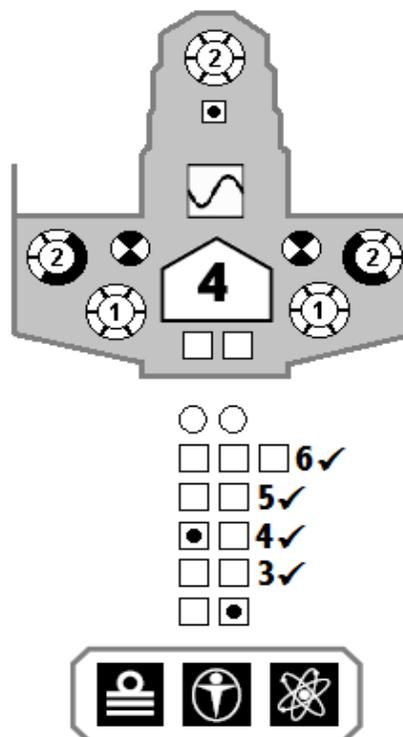
Cost: NPV 114, CPV 92

2nd line ship (5-row hull): NPV 109, CPV 87

Volga super destroyer



Volga super destroyer
(2nd line/reserve unit)



Tibet class light cruiser

TECHNICAL SPECIFICATIONS:

Classification: Light Cruiser

Displacement: 4800 Tons [MASS Factor 48]

Hull type: Average [Hull Integrity 14]

Crew: 11 officers, 37 ratings [Crew Factor 3]

Armament: 2 x Class 1, 3 x Class 2 batteries

Defences: 2 Point Defence Systems

Grade 3 Armour

Level 1 Screens

Sensor suite: Standard sensors,

2 Fire-control systems

Drive systems: Main Drive rating 4,

FTL (Jump) Drive.

SERVICE DETAILS:

First entered service: 2163

Currently in ESU service: 66

Lost in action: 31

Decommissioned/scrapped: 18

Relegated to reserve fleet: 12

Sold to other forces: 15

Under construction: Nil

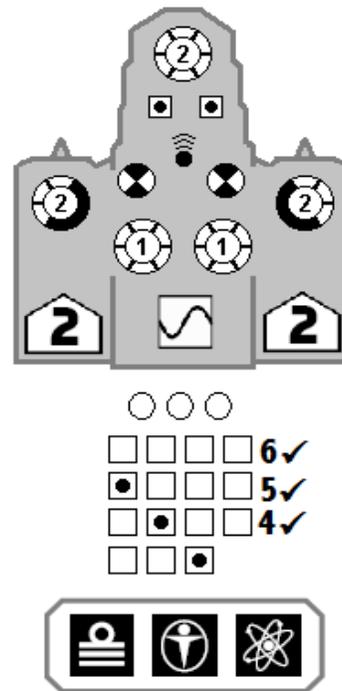
Procurement cost: 1620 MUCr.

The Tibet is still the standard CL design for the Star Navy, despite being twenty years old. It is a practical and efficient ship with a good balance of offence and defence, and is only very recently being supplemented by the new Kiang class introduced in 2180. The last Tibet hull left the slips in 2175 after a continuous production run of 12 years - a long period for a single unchanged design - and in 2178 the manufacturing facility was reactivated to begin laying down the first of the new Voroshilev class heavy cruisers which share several major design features with the old Tibets.

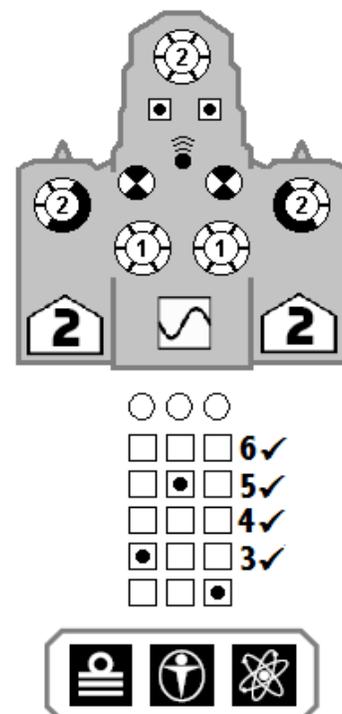
Cost: NPV 162, CPV 136

2nd line ship (5-row hull) NPV 154, CPV 129

Tibet light cruiser



Tibet light cruiser
(2nd line/reserve unit)



Beijing/B class escort cruiser

TECHNICAL SPECIFICATIONS:

Classification: Escort Cruiser

Displacement: 6000 Tons [MASS Factor 60]

Hull type: Average [Hull Integrity 18]

Crew: 12 officers, 48 ratings [Crew Factor 3]

Armament: 2 x Class 1, 2 x Class 2, 1 x Class 3 batteries

Defences: 2 Point Defence Systems

Grade 5 Armour

Level 1 Screens

Sensor suite: Standard sensors, 2 Fire-control systems

Drive systems: Main Drive rating 4, FTL (Jump) Drive.

SERVICE DETAILS:

First entered service: 2158

Currently in ESU service: 18

Lost in action: 23

Decommissioned/scrapped: 11

Relegated to reserve fleet: 29

Sold to other forces: 8

Under construction: Nil

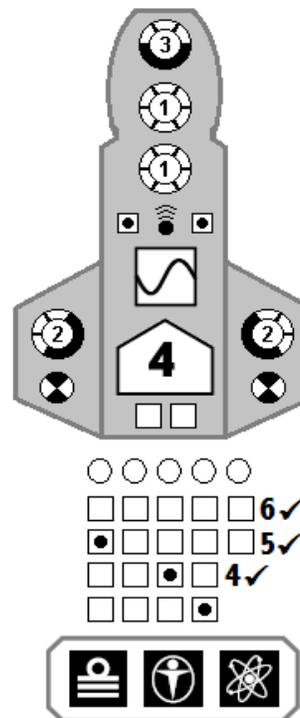
Procurement cost: 2010 MUcr.

The Beijing/B was essentially a new class created from the total refit of a large number of very elderly Beijing/A CEs. The programme took place between 2158 and 2164, but the original Beijing/A hulls actually date from the mid-2130s, making even the refitted Beijing/B an old ship that is in dire need of replacement. There is even a handful of unconverted Beijing/A ships still serving in ESU reserve commands, though how many of these are actually battleworthy is a debatable point. Several of the Beijing/Bs still in service are of a defensive closesupport variant which carries an ADCF system and four additional Point-Defence installations in place of the single Class-3 beam system.

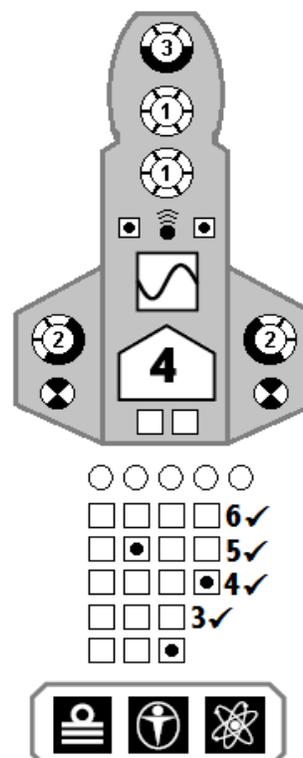
Cost: NPV 201, CPV 177

2nd line ship (5-row hull): NPV 192, CPV 168

Beijing-B cruiser



Beijing-B cruiser
(2nd line/reserve unit)



Gorshkov class heavy cruiser

TECHNICAL SPECIFICATIONS:

Classification: Heavy Cruiser

Displacement: 7000 Tons [MASS Factor 70]

Hull type: Average [Hull Integrity 21]

Crew: 13 officers, 57 ratings [Crew Factor 4]

Armament: 2 x Class 1, 2 x Class 2, 1 x Class 3 batteries

2 Salvo Missile Racks

Defences: 2 Point Defence Systems

Level 1 Screens

Sensor suite: Standard sensors, 2 Fire-control systems

Drive systems: Main Drive rating 4, FTL (Jump) Drive.

SERVICE DETAILS:

First entered service: 2155

Currently in ESU service: 27

Lost in action: 19

Decommissioned/scrapped: 13

Relegated to reserve fleet: 22

Sold to other forces: 14

Under construction: Nil

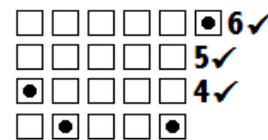
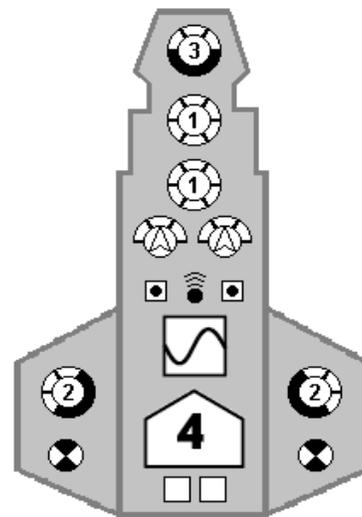
Procurement cost: 2400 MUcr.

The Gorshkov CH was always an unusual design for the ESU Star Navy, in that it carried a pair of expendable Salvo Missile racks rather than a purely beam-orientated armament suite. While this gave the ship a very effective strike capability, the use of missiles did not really fit the standard ESU operational doctrine - it was felt that the need for frequent missile replenishment in extended combat was a liability, and limited the use of the class in long-range combat patrol duties where fleet auxiliaries could not always be on hand for resupply. Despite these shortcomings, the Gorshkov has acquitted itself well in its long service life and many that are considered too old for frontline operations are being reassigned to the reserve rather than decommissioned.

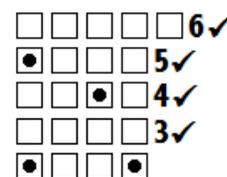
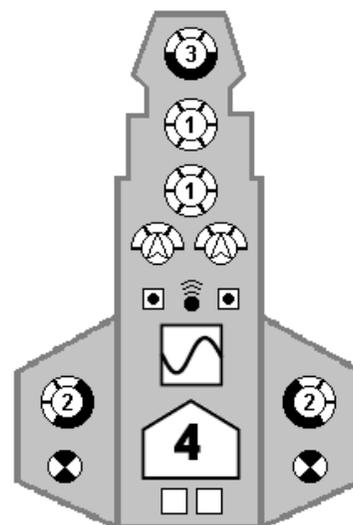
Cost: NPV 240, CPV 219

2nd line ship (5-row hull): NPV 230, CPV 209

Gorshkov heavy cruiser



Gorshkov heavy cruiser
(2nd line/reserve unit)



Voroshilev class heavy cruiser

TECHNICAL SPECIFICATIONS:

Classification: Heavy Cruiser

Displacement: 7800 Tons [MASS Factor 78]

Hull type: Average [Hull Integrity 23]

Crew: 14 officers, 64 ratings [Crew Factor 4]

Armament: 2 x Class 1, 2 x Class 2, 2 x Class 3 batteries

Defences: 2 Point Defence Systems

Grade 5 Armour

Level 1 Screens

Sensor suite: Standard sensors, 2 Fire-control systems

Drive systems: Main Drive rating 4, FTL (Jump) Drive.

SERVICE DETAILS:

First entered service: 2179

Currently in ESU service: 24

Lost in action: 7

Decommissioned/scrapped: 1

Relegated to reserve fleet: Nil

Sold to other forces: 2

Under construction: 18

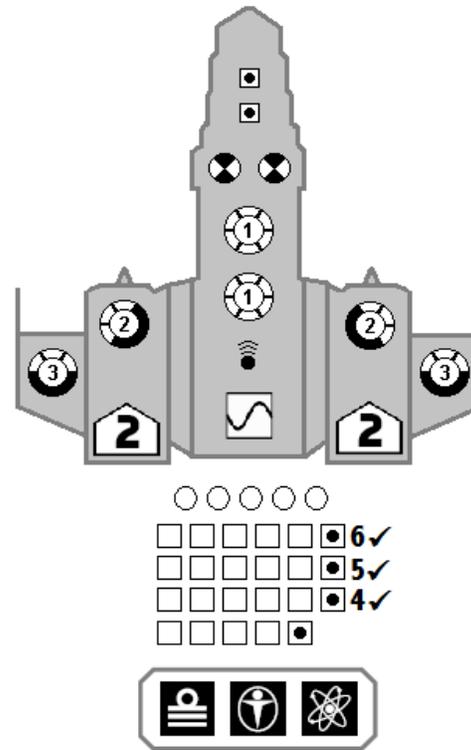
Procurement cost: 2620 MUcr.

The Voroshilev is one of the ESU's newest warship designs, and is under a crash production programme to replace cruiser force losses from the ongoing war. Voroshilevs are being assigned to most frontline squadrons while the venerable Gorshkovs and other older designs are being withdrawn and reallocated to defensive units and reserve forces. Unlike the Gorshkov, the Voroshilev reverts to the primary beam armament fit most commonly found in ESU vessels, and as with the Tibet CL (with which it shares some basic constructional components) it carries a moderate amount of armoured hull protection in addition to a screen generator.

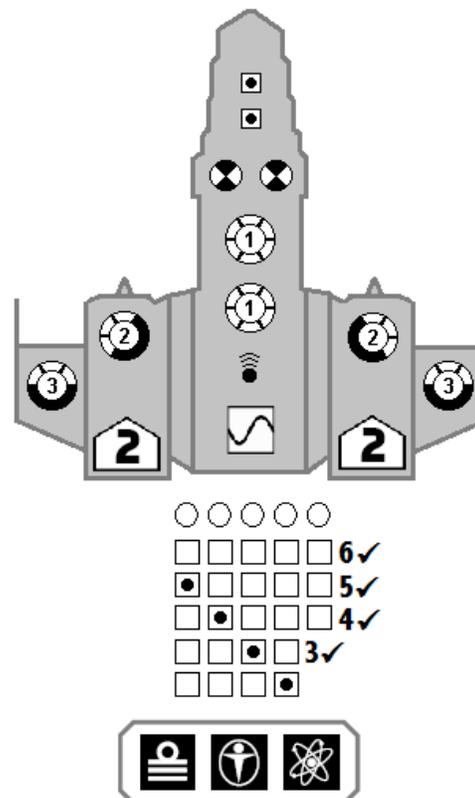
Cost: NPV 262, CPV 245

2nd line ship (5-row hull) NPV 251, CPV 234

Voroshilev heavy cruiser



Voroshilev heavy cruiser
(2nd line/reserve unit)



Rostov class battledreadnaught

TECHNICAL SPECIFICATIONS:

Classification: Battledreadnought
Displacement: 13800 Tons [MASS Factor 138]
Hull type: Strong [Hull Integrity 55]
Crew: 20 officers, 118 ratings [Crew Factor 7]
Armament: 1 x Class 1, 3 x Class 2, 2 x Class 3 batteries
Defences: 3 Point Defence Systems
Level 1 Screens
Sensor suite: Standard sensors,
 3 Fire-control systems
Drive systems: Main Drive rating 4,
 FTL (Jump) Drive.
Hangar bays: 1 bay for 6 fighters

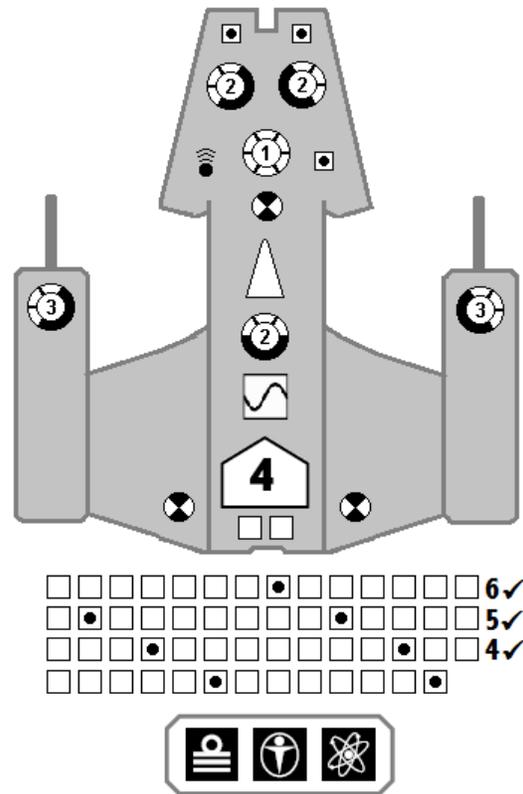
SERVICE DETAILS:

First entered service: 2174
Currently in ESU service: 16
Lost in action: 6
Decommissioned/scrapped: 2
Relegated to reserve fleet: 3
Sold to other forces: 5
Under construction: 4
Procurement cost: 4580 MUcr.
 (Plus fighter costs)

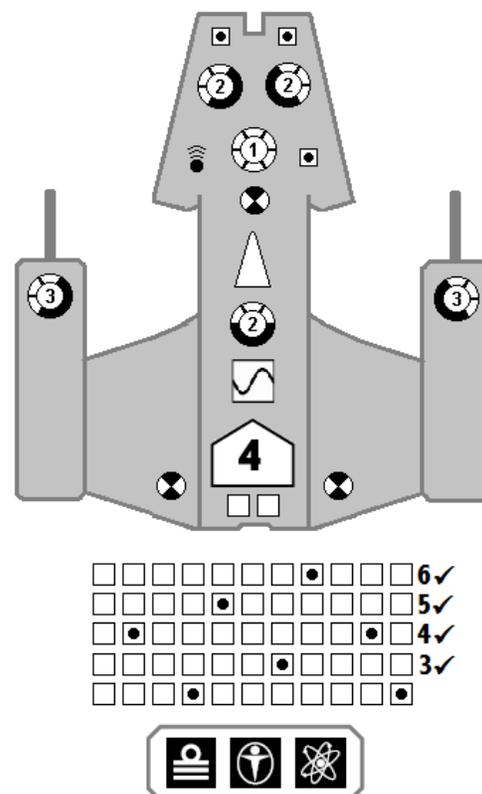
The Rostov is the BDN class of the "family" of ship designs from the Tsien- Valkov design bureau, which began with the Manchuria BCs at the start of the 2170s. All of the designs are well armed and protected, with good drive power, and are giving the ESU Navy a much-needed boost in its strike capabilities. As with most BDNs, the Rostov carries a single embarked fighter group for both antishipping and ground support operations. Five built-to-order Rostovs were exported to the Pan African Union between 2178 and 79, to form the major battleline strength of the PAU's rapidly-expanding and modernising navy; this sale was purely a political move, which somewhat upset the ESU Admiralty who (understandably) felt that their own requirements for replacement fleet units should have taken priority.

Cost: NPV 458, CPV 486
2nd line ship (5-row hull): NPV 431, CPV 459
Fighter costs not included.

Rostov battledreadnaught



Rostov battledreadnaught (2nd line/reserve unit)



Tsiolkovsky class light carrier

TECHNICAL SPECIFICATIONS:

Classification: Light Carrier

Displacement: 15000 Tons [MASS Factor 150]

Hull type: Average [Hull Integrity 45]

Crew: 24 officers, 126 ratings [Crew Factor 8]

Plus fighter pilots

Armament: 2 x Class 1, 4 x Class 2 batteries

Defences: 4 Point Defence Systems

Level 1 Screens

Sensor suite: Standard sensors,

2 Fire-control systems

Drive systems: Main Drive rating 4,

FTL (Jump) Drive.

Hangar bays: 4 bays each holding

6 fighters

SERVICE DETAILS:

First entered service: 2176

Currently in service: 26

Lost in action: 5

Decommissioned/scrapped: 2

Relegated to reserve fleet: Nil

Sold to other forces: Nil

Under construction: 7

Procurement cost: 5120 MUcr.

(plus fighter costs)

Since the early 2170s, the ESU Star Navy has been concentrating its carrier production efforts on larger numbers of smaller units, rather than replacing the "dinosaurs" like the Konstantin class. Typical of the light carrier approach is the relatively new Tsiolkovsky, another of the Tsien-Valkov Bureau designs, which combines the benefits of a moderate fighter capacity with good defences, a reasonable turn of speed and an effective directfire offensive capability.

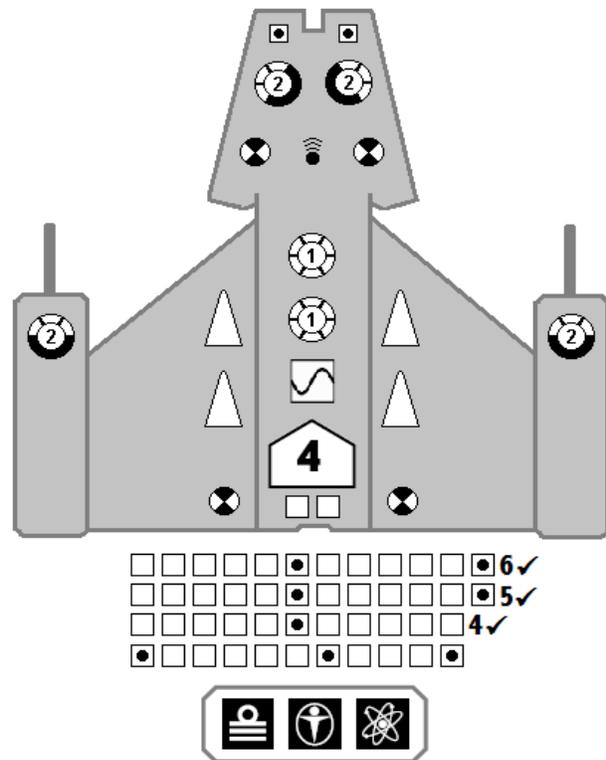
While they do not have the degree of survivability of the huge old CVAs, their sheer numbers permit flexible fighter deployment in areas where the ESU major fleet units have always been thinly spread.

Cost: NPV 511, CPV 491

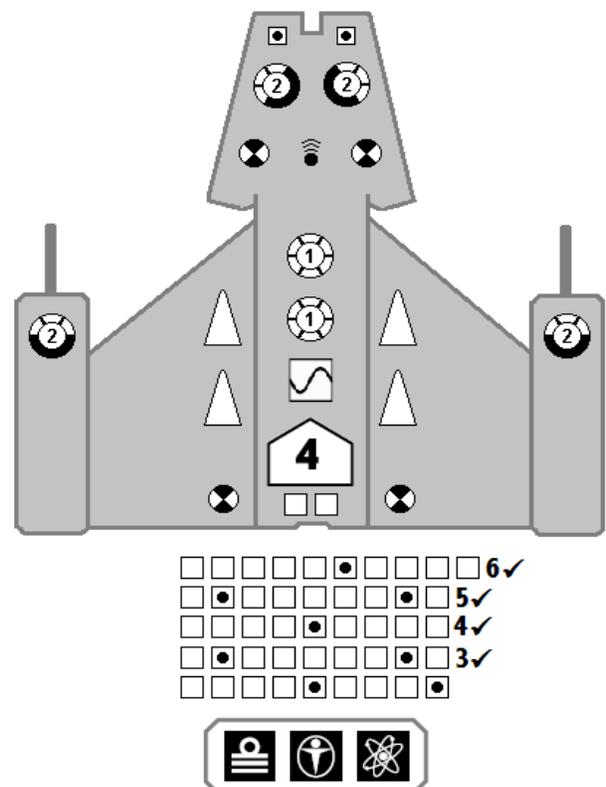
2nd line ship (5-row hull): NPV 488, CPV 468

Fighter costs not included.

Tsiolkovsky class light carrier



Tsiolkovsky class light carrier
(2nd line/reserve unit)



Komarov class superdreadnaught

TECHNICAL SPECIFICATIONS:

Classification: Superdreadnought
Displacement: 22000 Tons [MASS Factor 220]
Hull type: Strong [Hull Integrity 88]
Crew: 35 officers, 185 rating [Crew Factor 11]
Armament: 2 x Class 1, 2 x Class 2, 4 x Class 3, 2 x Class 4 batteries
Defences: 4 Point Defence Systems
 Level 2 Screens
Sensor suite: Standard sensors, 3 Fire-control systems
Drive systems: Main Drive rating 2, FTL (Jump) Drive.
Hangar bays: 1 bay holding 6 fighters

SERVICE DETAILS:

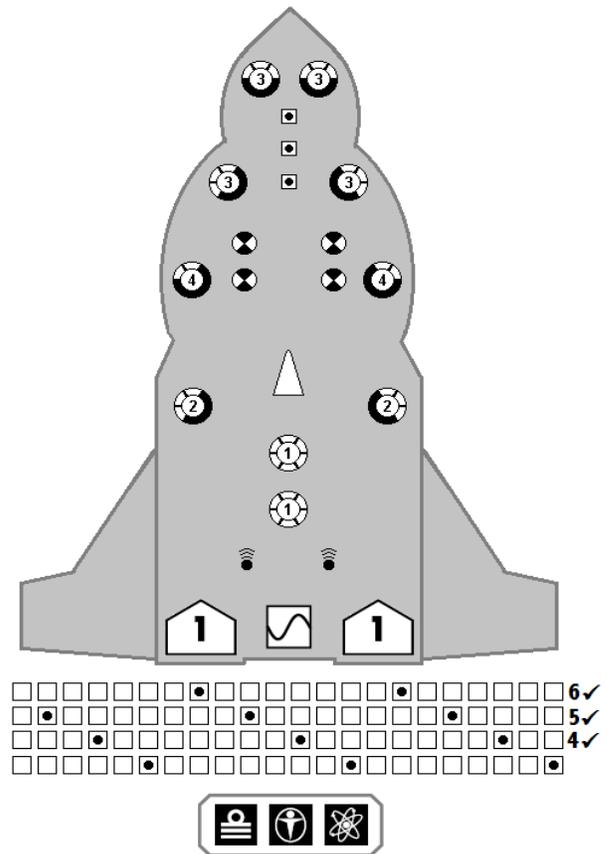
First entered service: 2154
Currently in ESU service: 11
Lost in action: 5
Decommissioned/scrapped: 3
Relegated to reserve fleet: 2
Sold to other forces: Nil
Under construction: Nil
Procurement cost: 7510 MUcr.
 (Plus fighter costs)

The Komarovs are old ships nearing the end of their planned operational lives, but are still the mainstay of the ESU battleline. Heavy attrition factors and damage to industrial capacity during the years of the Third Solar War have delayed the introduction of new major fleet units to replace these ageing vessels, and yet another refit programme is planned for 2184 onwards to extend the service life of the Komarovs for a while longer. The Komarov is one of only a handful of warship classes to mount the very large Class-4 beam batteries, these and its extensive array of other beam weapons giving the ship a huge offensive punch.

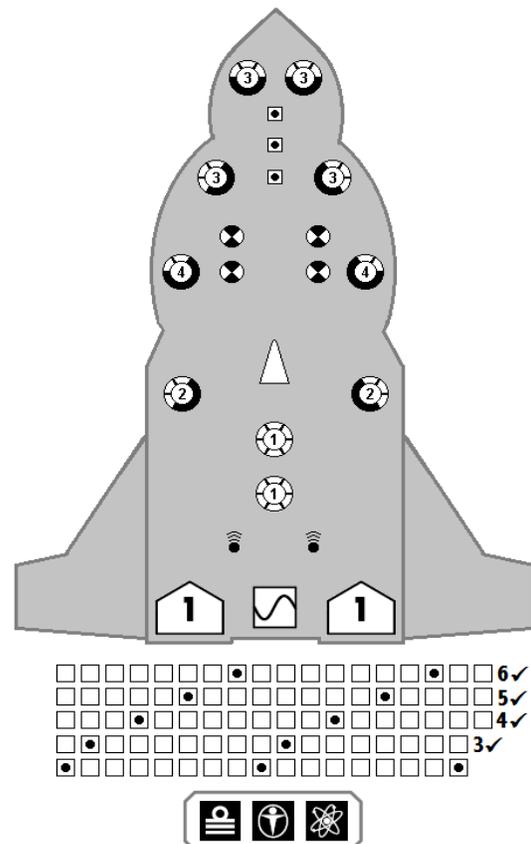
A strong hull and level-2 screens give a good level of protection against most weapons, but the ship carries only a single fighter group compared to the two of most other SDN classes.

Cost: NPV 751, CPV 976
2nd line ship (5-row hull): NPV 707, CPV 932
Fighter costs not included.

Komarov superdreadnaught



Komarov superdreadnaught (2nd line/reserve unit)



Konstantin class attack carrier

TECHNICAL SPECIFICATIONS:

Classification: Attack Carrier

Displacement: 24000 Tons [MASS Factor 240]

Hull type: Average [Hull Integrity 72]

Crew: 37 officers, 203 ratings [Crew Factor 12]

Armament: 2 x Class 1, 4 x Class 2, 4 x Class 3 batteries

Defences: 6 Point Defence Systems

Level 2 Screens

Sensor suite: Standard sensors, 2 Fire-control systems

Drive systems: Main Drive rating 2, FTL (Jump) Drive.

Hangar bays: 6 bays each holding 6 Fighters

SERVICE DETAILS:

First entered service: 2156

Currently in ESU service: 12

Lost in action: 3

Decommissioned/scrapped: 5

Relegated to reserve fleet: 1

Sold to other forces: 1

Under construction: Nil

Procurement cost: 8420 MUcr.

(Plus fighter costs)

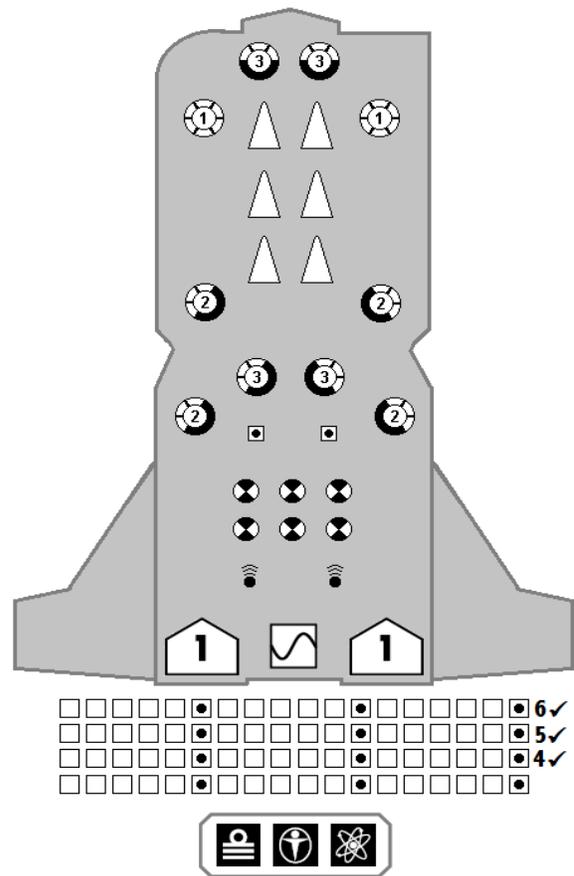
The Konstantin CVA is a huge ship, and was the largest massproduced warship class in service until the recent introduction of the FSE Jeanne D'Arc class carrier. Like the Komarov SDN from which its hull is derived, the Konstantin is now an old design, and its maintenance requirements are getting higher as the years pass - even the newest Konstantin hulls are now nearly twenty-five years old. The ships have been kept up to date with numerous minor refits and refurbishments throughout their service lives, and the Konstantins are still very effective units with a significant offensive fire capacity in addition to their fighter complements.

Cost: NPV 842, CPV 948

2nd line ship (5-row hull): NPV 806, CPV 912

Fighter costs not included.

Konstantin attack carrier



Konstantin attack carrier
(2nd line/reserve unit)

