

Polikarpov

Grzegorz Plonski

Polikarpov I-15, I-16 and I-153 Aces Mikhail Maslov,2013-02-20 The I-15, I-16 and I-153 fighters were the world's first mass-produced fighters. Some 17,000 Polikarpovs had been manufactured by the time production ceased in 1941. They served with the Republicans in the Spain, the Chinese against Japan in 1937-38, and the Soviets against both Japan in the Nomonhan Incident and Finland during the Winter War. By 1941, more than 20 Soviet pilots had made ace in Polikarpovs, and many more attained that status during the first months of the German invasion. Though thoroughly outclassed, the Polikarpov was the backbone of the Soviet air force during the early months of the war in the east, and continued to serve, as training aircraft and as frontline fighters, some right through to 1945.

Polikarpov's Biplane Fighters Yefim Gordon,Keith Dexter,2002 The Soviet Polikarpov design bureau is perhaps best known for the I-16 fighter, the world's first monoplane fighter to have a retractable undercarriage. This aircraft is covered in Volume 3 of the Red Star series. This book explores the development of Polikarpov's fighting biplanes from the 2I-N1 to his first aircraft to see production; to the I-3 and the I-5 created while the designer was in prison. This design paved the way for the I-15 which earned fame as the Chato during the Spanish Civil War and also saw action against the Japanese, and the I-15bis which owed its existence mainly to Soviet Air Force's prejudice against gull wings; and the famous I-153 Chaika, a gull-wing biplane with retractable-landing gear. Experimental versions of this aircraft are also included in the book. A detailed account of the combat role of these aircraft is given as are structural descriptions. The book also includes details of the ill-starred I-190 which was to have superseded the Chaika and of privately owned I-15bis and I-153s which have been restored to airworthy condition.

King of Fighters -- Nikolay Polikarpov and His Aircraft Designs Mikhail Maslov,2021-01-19 In the century-long history of the conquest of the sky there have been a number of outstanding personalities. Among them is the name of designer Nikolay Polikarpov (1892-1944), which is inseparably associated with the best achievements of the Russian and Soviet aviation. His practical activity in the aircraft industry began upon graduation from the Petersburg Polytechnic Institute in 1916. Aged 25, Polikarpov was sent to the Russo-Baltic Wagon Factory (RBWF), where the four-engined Ilya Muromets bombers designed by Igor Sikorsky were being built at that time. Later, beginning from August 1918, he worked in Moscow at the Dux aircraft factory. For several years, he was engaged in improving products manufactured by the factory, and upgrading production aircraft to accommodate the available engines, equipment and materials. From 1922, Polikarpov focused his attention on fighter aircraft, creation of which was a priority for him during the following years. The first of them was the IL-400 monoplane, designated I-1 by the Air Force. The monoplane was followed by biplanes including the 2I-N1 (1925), the I-3 (1927), the D-2 (1928), and the I-6 (1929). It was specialization in fighter aircraft which, from then on, became his mission in life. At the peak of his career as a designer, Polikarpov was informally styled 'the King of Fighters', which was quite in line with the level of his merits and achievements. In the 1930's, the TsKB-3 (I-15) and TsKB-12 (I-16) fighters were designed under Polikarpov's supervision. These aircraft were the designer's undoubtable success. They also were the main combat fighters in service with the Red Army Air Force. For the creation of the I-15 and the I-16 fighters, Polikarpov was awarded the Order of Lenin in 1935, and the Order of the Red Star a year later. In the 1930's, Nikolay Polikarpov devised a lot of aircraft of various designs, the majority of which can be described as 'advanced' and 'innovative'. In 1940, Polikarpov was granted the degree of the Doctor of Engineering and the title of the Chief Designer of the highest category. In the same year, he was awarded the title of the Hero of Socialist Labor. A year later, he became a recipient of the Stalin Prize. The gifted Soviet engineer was destined to live only 52 years. On 30 July 1944, Nikolay Polikarpov died of a rapidly evolving oncological disease. To venerate his memory, the U-2 trainer has ever since been designated the Po-2 (Polikarpov-2). The book which is presented to the reader describes all Polikarpov's original projects, both those put into reality and unimplemented ones. It took the author many years to prepare for the creation of the book. The author studied materials on the respective topics in all Russian archives, and made use of remembrances of Polikarpov's contemporaries and publications by other researchers. For purposes of clarity and in order to facilitate publication, the author split the book on Nikolai Polikarpov's aircraft into two parts - the 'Biplane Era' and the 'Monoplane Era'. Indeed, during the designer's activity from 1918 through to 1932, he devoted himself predominantly to creating biplanes. For the 1920's, the biplanes were a preferable option; they were more common, more reliable, better studied, and even more desirable for the Red Army Air Force. The first design of the IL-400 (I-1) monoplane fighter appeared as early as 1923; however, it was through its novelty and unpredictability that the aircraft failed to achieve the deserved success. It should be noted that the U-2 (Po-2) and the R-5 biplanes, which were created during that period, became one of the best Polikarpov aircraft, and brought him recognition as a reputed designer. In the 1930's, Nikolai Polikarpov's activity reached its pinnacle. It was during that period that he created his advanced monoplanes such as the I-16, the I-17, the VIT-2, and others. He continued his fruitful and quite successful activity in the area of creating modern aircraft during the war of 1941--45 as well.

Polikarpov's I-16 Fighter Yefim Gordon,Keith Dexter,2001 Aviation historians often dismiss the Polikarpov I-16 because it did not fare well against its more modern adversaries in WWII. It was often referred to in the West by the disparaging nickname of Rata, the Russian word for rat! Nikolay Polikarpov's I-16 was nevertheless an outstanding fighter in its day--among other things, because it was the world's first monoplane fighter with a retractable undercarriage. Its capabilities were demonstrated effectively during the Spanish Civil War and it was still in front line service when the German armed forces fell on the Soviet Union in 1941. This book details every variant of this diminutive fighter, including development aircraft and unbuilt projects. An account is also given of Polikarpov's early monoplane fighters that presaged the I-16 and of the later designs that evolved from it. Details are given of all surviving examples including the six aircraft that were restored to airworthy condition in Russia in the 1990s.

King of Fighters Mikhail Maslov,2019-07 Nikolay Polikarpov (1892-1944) is inseparably associated with the best achievements of Russian and Soviet aviation. His practical activity in the aircraft industry began upon graduation from the Petersburg Polytechnic Institute in 1916. In the 1930s, the TsKB-3 (I-15) and TsKB-12 (I-16) fighters were designed under Polikarpov's supervision. These

Polikarpov Fighters in Action Hans-Heiri Stapfer,1996 Beskrivelse af det russiske Polikarpov monoplan jagerfly.

Polikarpov 1-16 Dariusz Karnas,2014 Scale plans in 1/72 1/48 and 1/32 of I-16 Soviet fighter. Versions: Type 10 Type 24 Plans in 1/72, 1/48 & 1/32 scales.

Flight Tests of the Ramjet on Aircraft Designed by N. N. Polikarpov in 1939-1940 A. Ya Shcherbakov,1968

The Polikarpov I-16 In Profile & Scale Erik Pilawskii,2021-05

Polikarpov Fighters Of The Spanish Civil War Erik Pilawskii,2021-07-03 Volume no.6 of the Profile & Scale series illuminates the various Polikarpov fighters of the Spanish Civil War (1936-39). The book is fully bilingual Spanish and English text, to include all captions, descriptions and references. More than 70 full-colour profiles document the appearance of these famous I-15s and I-16s, or Chatos and Moscas, in unstinting detail and accuracy. All-original, never previously published 1:48 scale line drawings are provided for the I-15 from all three manufacturers, Russian and Spanish. Full scale plans are included for the I-16 Types 5 and 10, but also for the special Ispanskii hybrid version shipped to Spain and the locally built examples from Alicante. These line drawings are the culmination of nearly 30 years' dedicated work on Polikarpov aircraft, and should present the most complete, accurate and illuminating scale work regarding these machines to date. The book presents many production, development and detail facts about Polikarpov fighters in Spain which have not been published previously. The old myth of the I-16 Type 6 is laid to rest at last, and the mysterious Ispanskii models finally revealed. A proper explanation of the Russian M-25 engine is presented along with other such technical details, making this volume a treasure-trove for variant identification and resolution.

Polikarpov Fighters of the Spanish Civil War: Chatos & Moscas In Profile & Scale Erik Pilawskii,2020-01-08 Volume no.6 of the Profile & Scale series illuminates the various Polikarpov fighters of the Spanish Civil War (1936-39). More than 70 full-colour profiles document the appearance of these famous I-15s and I-16s, or Chatos and Moscas, in unstinting detail and accuracy. All-original, never previously published 1:48 scale line drawings are provided for the I-15 from all three manufacturers, Russian and Spanish. Full scale plans are included for the I-16 Types 5 and 10, but also for the special Ispanskii hybrid version shipped to Spain and the

locally built examples from Alicante. The work contains more than 70 full colour profiles depicting all of the known Polikarpov examples from the photographic record. A discussion of tactical markings and technical development make this an invaluable reference for the historian and modeller alike.

Polikarpov Po-2 Dariusz Karnas,2015 Scale plans in 1/72, 1/48 and 1/32 of Po-2 (U-2) variants. Includes Polish CSS-13 versions. All versions are shown.

Polikarpov I-153 In Profile & Scale Erik Pilawskii,2021-06-29 Volume № 11 of the Profile & Scale series covers the famous I-153 Chaika to an entirely new standard of authenticity. More than 65 I-153 examples are faithfully documented in full-colour profile, many appearing for the first time. Many pages of original and not previously published 1:48 scale line drawings reveal the development and complexity of the I-153 family as never before. These line drawings are the culmination of nearly 30 years' dedicated work on Polikarpov's biplane fighters, and should present the most complete, accurate and illuminating scale work regarding the aircraft at the present time. The book presents many development and variant detail facts about the I-153 which have been previously unclear. The scale drawings and profiles are complimented by photographs, diagrams, appendices and other documentary material to explain the technical and construction details of all of the production versions of the I-153, to include the TK supercharger equipped models. Many of the colour profiles represent examples which will be familiar to students of the Chaika, albeit completed to the utmost standard of accuracy. Several profiles will doubtless be new even to experienced readers, and it is hoped these will delight both the casual reader and the serious student, equally.

Polikarpov Po-2 Grzegorz Plonski,2010-01-05 * Includes free decals and masking foil * Packed with color photos The Polikarpov Po-2 served as a general-purpose Soviet biplane. The reliable, uncomplicated and forgiving aircraft served as a trainer and crop-duster in peacetime as well as a low-cost ground attack, aerial reconnaissance, psychological warfare and liaison aircraft during war, proving to be one of the most versatile light combat types to be built in USSR. It is the second most produced aircraft, and the most produced biplane, in the history of aviation, with more than 40,000 built between 1928 and 1953. It remained in production for a longer period of time than any other Soviet-era aircraft. This album of detailed photographs is invaluable for the modeler or enthusiast alike. All photo captions are in English with a Polish summary provided. About the Series This is a classic series of highly illustrated books on the best machines of war, with several hundred photographs of each aircraft or vehicle. With close-up views of the key features of each machine, including its variations, markings and modifications, customizing and creating a model has never been easier. Includes extra features such as decals and masking foil.

Begin. Во славу сѣтъя ... троѣцы ... напечатася книга сѣя Грамматика. [A Slavonic Grammar by M. Smotritsky; fourth edition, edited by Th. Polikarpov.] Melety SMOTRITSKY (successively Greek Archbishop of Polotsk and R.C. Archbishop of Hierapolis.),1721

Library of Congress Subject Headings Library of Congress,Library of Congress. Subject Cataloging Division,Library of Congress. Office for Subject Cataloging Policy,2013

Russian Aviation and Air Power in the Twentieth Century John Greenwood,Von Hardesty,Robin Higham,2014-06-11 In the light of new archival material the editors take a fresh look at Russian aviation in the twentieth century. Presenting a comprehensive view of Russian aviation, from its genesis in the late czarist period to the present era, the approach is essentially chronological with a major emphasis on the evolution of military aviation. The contributions are diverse, with appropriate attention to civilian and institutional themes.

Theory of Radioisotopic and Chemical Homeostasis of Marine Ecosystems Victor Egorov,2021-08-07 The book is dedicated to the study and mathematical definition of the biogeochemical patterns of organic and inorganic matter interaction with the marine environment's radioactive and chemical components. This book describes the radioisotope and mineral exchange theory between organic and inorganic matters in the marine environment on a time scale of metabolic processes and trophic interactions. The approach is parametrically compatible with modern techniques describing the matter and energy balance in aquatic ecosystems. The criteria for assessing the ecological capacity, biogeocenoses assimilation capacity, and water masses radio capacity, which form the basis of the theory of radioisotope and mineral homeostasis of marine ecosystems, are substantiated. This book presents methods to implement sustainable development of the Black Sea's critical and recreational zones according to the marine pollution factors. This book does that by regulating the balance between the consumption of water quality resources and their reproduction as a result of natural biogeochemical processes are proposed. The book is of interest to scientists working in marine geology, marine ecology, biogeophysics, and biogeochemistry. This book is also necessary for professionals working in institutions and administrations coordinating maritime activities, environmental projects, and developing aquaculture technologies.

Radioecology ,1973

The Petrine Revolution in Russian Culture James Cracraft,2009-07-01 The reforms initiated by Peter the Great transformed Russia not only into a European power, but into a European culture--a shift, argues James Cracraft, that was nothing less than revolutionary. The author of seminal works on visual culture in the Petrine era, Cracraft now turns his attention to the changes that occurred in Russian verbal culture. The forceful institutionalization of the tsar's reforms--the establishment of a navy, modernization of the army, restructuring of the government, introduction of new arts and sciences--had an enormous impact on language. Cracraft details the transmission to Russia of contemporary European naval, military, bureaucratic, legal, scientific, and literary norms and their corresponding lexical and other linguistic effects. This crucial first stage in the development of a modern verbal culture in Russia saw the translation and publication of a wholly unprecedented number of textbooks and treatises; the establishment of new printing presses and the introduction of a new alphabet; the compilation, for the first time, of grammars and dictionaries of Russian; and the initial standardization, in consequence, of the modern Russian literary language. Peter's creation of the St. Petersburg Academy of Sciences, the chief agency advancing these reforms, is also highlighted. In the conclusion to his masterwork, Cracraft deftly pulls together the Petrine reforms in verbal and visual culture to portray a revolution that would have dramatic consequences for Russia, and for the world.

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