

usage of outer directing apparatus; 3 dents on blades of 1st stage of low pressure compressor: 2 dents by 0,5x1 mm and 1 dent - 2x1 mm
? ? ? ? ?
engine replaced completely

10. 03.08.91 Tu-134A

SOVIET BIBLIOGRAPHY ABOUT AVIATION AND RADAR ORNITHOLOGY
1990-1991

J.E.Shergalin
Aviational Ornithologist
Estonian Air, Lennujaama 2,
Tallinn, EEO011, Estonia

ABSTRACT

This bibliography is continuation and more accurate definition of working paper 22 at BSCE 20. Bibliography covers 33 reports of 23 soviet specialists and 2 report of 2 ornithologists from former GDR.

Khartunov O.A. Ornithological situation in Stavropol airport. -Ecological problems of Stavropol Territory and neighbouring territory. Reports of regional scientific-practical conference 4-6 October 1989. Stavropol, 1989. Pp. 280-281. Rus.

Borodin O.V. Results of ornithological investigations of Ulianovsk airport. -Ornithological researches in Middle Povolzh'e (environs of Volga river). Kuibyshev State University. Kuibyshev, 1990. Pp.65-68. Rus.

Il'ichev V.D. Bioacoustic facilities for birds scaring away from important objects. -The fundamental sciences - for national economy. Moscow, 1990. Pp. 305-306. Rus.

Sokolov V.Ye., Il'ichev V.D., Yemel'yanova I.A. Mammals and birds, deteriorating technical facilities and constructions. Series "Biodeterioration". Moscow, "Nauka", 1990. 240 p. Fig. 116, Bibl. 79 titles. 32 maps of bird species range, 24 maps of mamal species range. ISBN 5-02-005870-X. Edition -900 copies. Rus., summary and contents in Engl.

Engineering ethology: bioacoustic and biolinguistic of birds. Collection of scientific papers. USSR Academy of Sciences. A.N.Severtzov Institute of Evolutionary Animal Morphology and Ecology. Editor Dr V.E.Yacoby. Moscow, "Nauka", 1991. 199 p. ISBN 5A-02-00297-4. Rus., summary in Engl.

This book includes the following papers, directly dedicated aviation and radar ornithology:

Jacoby V.E. Ecology-ethological factors in aviation ornithology	17-25
Nikol'sky I.D. Accustomation to repellent irritants as the behavioural adaptation of birds	26-32
Jacoby V.E. To use of means directed to avoiding of collisions between aircraft and birds	47-50
Biryukov V.Ya. Minimisation of bioacoustic synthesizers	57-60
Biryukov V.Ya., Nechval N.A. Probabilistic model for description of bird species composition in collisions with aircraft	60-63

Biryukov V.Ya. strikes and r
Il'ichev V.D. model of biod
Nechval N.A. ration and st
Nechval N.A., of confidence
aircraft (tak
Nebabin V.G., avoiding
Shergalin J.E. in anthropoge

Rogachev A.I.

Shurakov S.A. airport "Bol'
Shergalin J.E. birds' strike
Wernicke P.

Erdmann F. A of former GDR
Lashtabega Yu nies in Krasn

Bird behaviour nar on problem (14-18 Novemb Tabl. 11, Bibl. copies. Rus.

This book inc aviation and Il'ichev V.D. logy and devel control on the

- Biryukov V.Ya., Nechval N.A. Possible damage due to bird strikes and reaching of optimal decision 63-67
- Il'ichev V.D., Biryukov V.Ya., Nechval N.A. The stochastical model of biodeterioration situation caused birds 68-74
- Nechval N.A. Characteristics of defence means from biodeterioration and statistical problems of its analysis 74-80
- Nechval N.A., Biryukov V.Ya. Determination of the upper limit of confidence coefficient of bird strikes in one movement of aircraft (taking-off or landing) 80-83
- Nebabin V.G., Kotyatsy M.I. Use of radars in bird strikes avoiding 83-88
- Shergalin J.E. Industrial-transport factors and noise level in anthropogenous bird biotopes in Northern Estonia 148-153
- Rogachev A.I. The modern tendencies in aviation ornithology 166-168
- Shurakov S.A. Use of small bioacoustic unit (BAU) in Perm airport "Bol'shoe Savino" 168-169
- Shergalin J.E. The analysis of the meteoconditions of the birds' strikes with an aircraft 169-173
- Wernicke P. Aviation ornithology on former territory of GDR 174-176
- Erdmann F. All-the-year-round birds' count in agrolandscapes of former GDR 176-180
- Lashtabega Yu.O. About destruction of Corvidae nesting colonies in Krasnodar airport 181-182
- Bird behaviour control and bird protection. Materials of seminar on problems of bird behaviour control and bird protection (14-18 November 1988, Puschino). Moscow, 1990. 181 p. Fig. 12, Tabl. 11, Bibl. 131 titl. Editor Dr B.M.Zvonov. Edition - 400 copies. Rus.
- This book includes the following papers, directly dedicated aviation and radar ornithology:
- Il'ichev V.D. The strategical directions of engineering ethology and development of ecological means of bird behaviour control on the bioacoustic base 3-11

- Zvonov B.M. The theoretical and practical bases of acoustic repellent bird calls' synthesis 11-15
- Prokopenko S.P. Experience of semiwild keeping and birds of prey use as biorepellents 92-94
- Poluda A.M., Prokopenko S.P. Use of trained birds of prey, as one of methods in bird behaviour control 121-129
- Shergalin J.E. Peculiarities of the birds' behaviour, which perform special danger for aviation during their approach with aircraft 130-133
- Shergalin J.E. Control over numbers of the protected bird species in the area of Estonian airfields 133-137
- Lashtabega Yu.O. The first results of the mobile bioacoustic unit use in Krasnodar airport 138-142
- Yenaleev I.R. Peculiarities of the Goshawk use as a biological repellent on the airfield and fur farm 142-149
- Zhurminsky S.D., Kotyatsy M.I., Shtirbu V.I. Ornithological situation in the region of Kishinev airport 149-154
- Biryukov V.Ya. Method of rational digital encoding of bird acoustic signals on elements of microprocessor's technics 159-166
- Nechval N.A. About comparison of intensities and construction of prediction interval for bird strikes numbers on the base of former data 167-173
- Biryukov V.Ya., Nechval N.A. Study of statistics in correlation between bird strikes number and aircraft movements number 174-179

SERIOU

The Paper contains a
strikes in the years 1

- Transport
- Aeroplanes
- Helicopters

The data sample is taken from the
area of transport aerodromes
aircraft and helicopters

The Author would like to thank
the paper. A margin