Contents

Page

1 SHIRAIWA Takayuki

Preface

NAKATSUKA T., NISHIOKA J., YASUDA I., SCHERBININ A. and all Japanese and Russian participants in the cruise

Report of the research expedition in the sea of Okhotsk for 2007

11 NISHIOKA J., NAKATSUKA T., KUMA K., VOLKOV Y. and SCHERBININ A.

Importance of tidal mixing process at Kuril Strait for iron supply to Western Subarctic Pacific, Oyashio region

21 NAGAO S., TERASHIMA M., TAKATA H., SEKI O., KIM V. I., SHESTERKIN V. P., LEVSHINA I. S. and MAKHINOV A. N.

Geochemical behavior of dissolved iron in waters from the Amur River, Amur-liman and Sakhalin bay

27 SHESTERKIN Vladimir P.

Hydrochemistry of bogs and rivers in swamped massifs of the lower Amur

31 KIM V.I., MAKHINOV A.N., NAGAO S., SEKI O. and KAWAHIGASHI M.

Stream flow distribution between the sub-channels within the middle-Amur Plain

37 KONDRATYEVA L.M. and STUKOVA O.Y.

Biogenic studies of polycyclic carbons discharge from the Amur River into the Far Eastern Seas

47 LEVSHINA S. I. and KARETNIKOVA E. A.

Specifics of organic substance geochemical migration and phytoplankton distribution in the system Amur River – Amur Liman

53 YOH M., GUO Y., WANG D. AND YAN B.

Biogeochemical behaviors of dissolved iron in Sanjiang plain, China: discharge, chemical forms, and year-to-year variation

Page

59 YAN B., ZHANG B., PAN X. and YOH M.

Effect of LUCC on concentration of iron in aquatic systems and flux of various forms iron in main rivers in Sanjiang plain

73 CHEN X., CHI G., YOH M., SHI Y., LU C., WANG J. and ZHOU L.

Effects of land use change on the distribution and mobility of soil iron in Sanjiang plain, northeast China

79 XU X. CAI T. and SHIBATA H.

Foliar Fe contents of dominant tree and water-extractable Fe of soil in forests in the northeastern China

87 LEVSHINA S. I., MATUSHKINA L. A., SHAMOV V. V., NOVOROTSKAYA A. G. and YOH M.

Specifics of concentrations and distribution of dissolved organic carbon in the Gassi Lake Basin (Lower Amur, Russia)

99 KAKIZAWA Hiroaki

Forest policy reform of Russian Federation

107 YAMANE Masanobu

Recent developments of the Sino-Russo timber trade in the Amur Basin

117 PARK H. and SAKASHITA A.

Formation and operation of paddy fields agriculture at the Sanjiang plain - A pre-research of farm households bookkeeping analysis -

127 KOSYKH N. E., PINAEV S. K., SAVIN S. Z. and SHAMOV V. V.

Medical-ecological studies in the Amur Basin (Russia): to problem of oncology

139 HARUYAMA S., MUROOKA M., MASUDA Y., YAMAGATA K. and KONDO A.

Landform and land use change of Heilongjiang province, North East China

Contents

D_{α}	~	^
ra	u	e

151 ZHANG B. and WANG Z.

Salinized wasteland expansion in western northeast China during 1975-2004

161 ERMOSHIN V.V. and PSHENICHNIKOVA N.F.

Compilation of soil map for the Amur River Basin: The main parameters

171 MISHINA Natalia V.

Role of forest trade relations between Russia, Japan and China in development and utilization of the Amur Basin's forest

183 MATOBA S., SASAKI H., and SHIRAIWA T.

Iron flux over the subarctic Pacific estimated by an ice-core record from Mt. Wrangell, Alaska

189 MITSUDERA H., MATSUDA J., NAKAMURA T., UCHIMOTO K. and EBUCHI N.

Wind- and buoyancy-driven intermediate layer circulation in the Sea of Okhotsk

199 ONISHI T., SHIBATA H., NAGAO S., PARK H., YOH M. and SHAMOV V.V.

Long-term trend of dissolved iron concentration and hydrological model incorporating dissolved iron production mechanism of the Amur River basin

209 SHAMOV V.V., ONISHI T. and KULAKOV V.V.

Iron flux behavior anomaly in the Amur Basin in 1990s: Feasible reasons