

References

- AMAP (1997). Arctic Pollution Issues: A State of the Arctic Environment Report. Arctic Monitoring and Assessment Program. Oslo, Norway.
- AMAP (1998). Arctic Pollution Issues. Wilson, S.J., Murray J.L. and Huntington, H.P. (eds.) Arctic Monitoring and Assessment Programme, Oslo, Norway.
- AMAP (2002). Arctic Pollution 2002. Arctic Monitoring and Assessment Programme, 2002. Oslo, Norway.
- Andreev, J. (2001). The Russian Arctic. Drofa Press, Moscow. (In Russian).
- Anisimov, O.A. and Poljakov, V.Y. (1999). Predicting changes of the air temperature in the first quarter of the 21st century. *Meteorology and Hydrology* 2:25-31. (In Russian).
- Anon. (1998). Major directions of economical and social development of Siberia for the period by 2002. Moscow-Novosibirsk.
- Anon. (2000). Current state of fish industry on inland reservoirs of Russia. St.-Petersburg. (In Russian).
- Are, F.E. (1999). The role of coastal retreat for sedimentation in the Laptev Sea. p 287-295 In: Kassens, H., Bauch, H.A., Dmitrenko, I., Eicken, H., Hubberten, H.-W., Melles, M., Thiede, J. and Timokhov, L. (eds.) *Land-Ocean Systems in the Siberian Arctic: Dynamics and History*. Springer-Verlag, Berlin, Germany.
- Barsegov, I.G., Solovev, M.N., Tikhomirov, S.N., Mogilevskii, I.M., Lifshits, V.M., Korzun, V.A., Zhukova, G.N., Nikitina, E.N. and Dolmatova, S.A. (2000). The Arctic; Russian interests and international conditions of their realisation. Moscow, Russian Federation.
- Beamish, R.J. (1995). Response of anadromous fish to climate change in the North Pacific. p 123-136 In: Peterson, D.L. and Johnson, D.R. (eds) *Human Ecology and Climate Change*. Taylor & Francis, Washington, DC, USA.
- Bernes, C. (1996). The Nordic Arctic Environment: Unspoilt, Exploited, Polluted? The Nordic Council of Ministers, Copenhagen, Denmark.
- BESIS (1999). The Impacts of Global Climate Change in the Arctic Regions: An Initial Assessment. Bering Sea Impact Study, International Arctic Science Committee, Oslo, Norway.
- Bidleman T.F., Jantunen, L.M., Falconer, R.L., Barrie, L.A. and Fellin, P. (1995). Decline of hexachlorocyclohexanes in the arctic atmosphere and reversal of the air-water gas exchange. *Geophysical Research Letters* 22(3):219-222.
- Björn, L.O., Callagan, T.V., Gehrke, C., Gwynn-Jones, D., Holmgren, B., Johanson, U. and Sonesson, M. (1997). Effects of enhanced UV-B radiation on sub-Arctic vegetation. p 241-253 In: Woodin, S.J. and Marquiss M. (eds.) *Ecology of Arctic Environments*. Blackwell Science, Oxford, United Kingdom.
- Björn, L.O., Callagan, T.V., Gehrke, C., Gwynn-Jones, D., Lee, J.A., Johanson, U., Sonesson, M. and Buck, N.D. (1999). Effects of ozone depletion and increased ultraviolet-B radiation on northern vegetation. *Polar Research* 18:331-337.
- Borisov, V.M, Osetrova, N.V., Ponomarenko, V.P., Semenov, V.N. and Sochenev, O. (2001). Influence of development of marine deposits of oil and gas on bioresources of the Barents Sea. Moscow, Russian Federation.
- Burova, L.P. (1992). About washing the contaminants out of the atmosphere. *Meteorology & Hydrology* 9:49-58. (In Russian).
- Callaghan, T.V., Körner, C., Lee, S.E. and Cornelison, J.H.C. (1998). Part 1: scenarios for ecosystem responses to global change. p 11-63 In: *Global Change in Europe's Cold Regions*. Heal, O.W., Callaghan, T.V., Cornelissen, J.H.C., Körner, C. and Lee, S.E. (eds.) European Commission Ecosystems Research Report, 27, Luxembourg.
- Chernyak, S.M., Rice, C.P. and McConnell, L.L. (1996). Evidence of currently-used pesticides in air, ice, fog, seawater and surface microlayer in the Bering and Chukchi seas. *Marine Pollution Bulletin* 32(5):410-419.
- Croasdale, K.R. (1993). Climate change impacts on northern offshore petroleum operation. p 175-184 In: Wall, G. (ed.) *Impacts of Climate Change on Resource Management in the North*. Occasional Paper No. 16, Department of Geography, University of Waterloo, Canada.

- Devisov, V.V. (2002). Ecological and geographical fundamentals of sustainable nature management in the shelf seas (ecological geography of the sea). Apatiti.
- ESRI (1996). ArcAtlas: our Earth. Temperature. Environmental Systems Research Institute Inc. Redland, California, USA.
- Forbes, D.L. and Taylor, R.B. (1994). Ice in the shore zone and the geomorphology of cold coasts. *Progress in Physical Geography* 18:59-89.
- Freese, C.H. (2000). The Consumptive Use of Wild Species in the Arctic: Challenges and Opportunities for Ecological Sustainability. Report submitted to World Wildlife Fund, Arctic Programme, Toronto, Ontario, Canada.
- Gaffney, M., Harrison, F. and Titova, G. (2000). Behind coulisses of becoming of economic theories. From the theory to a corruption. Saint-Petersburg: complex.
- Gallopín, G.C. (1997). Part one-introduction. In: Moldan, B, Billharz, S., and Matravers, R. (eds.) *Sustainability Indicators: a report on the project on Indicators of Sustainable Development*, p 13-27. SCOPE 58. J. Wiley & Sons, New York, USA.
- Gehrke, C., Johanson, U., Callaghan, T.V., Chadwick, D. and Robinson, C.H. (1995). The impact of enhanced ultraviolet-B radiation on litter quality and decomposition processes in *Vaccinium* leaves from the Subarctic. *Oikos* 72:213-222.
- Gehrke, C., Johanson, U., Gwynn Jones, D., Björn, L.O., Callaghan, T.V. and Lee, J.A. (1996). Effects of enhanced ultraviolet B radiation on terrestrial sub-arctic ecosystems and implications for interactions with increased atmospheric CO₂. *Ecological Bulletin* 45:192-203.
- GESAMP (2001). A sea of troubles. GESAMP Reports and Studies, 70. IMO/FAO/UNESCO-IOC/WMO/WHO/IAEA/UN/UNEP Joint Group of Experts on the Scientific Aspects of the Marine Environmental Protection, The Hague, Netherlands.
- Gidrometeoizdat (1992). Review of the ecological state of the seas of the Russian Federation and same regions of the World Ocean for 1991. (In Russian).
- Gidrometeoizdat (1993). Review of the ecological state of the seas of the Russian Federation and same regions of the World Ocean for 1992. (In Russian).
- GOIN (1992). Annual report on marine water quality with respect to hydrochemical indices for 1991. State Oceanographic Institute, Obninsk. (In Russian).
- GOIN (1996a). Annual of marine water quality with respect to hydrochemical indices for 1992. State Oceanographic Institute, Obninsk. (In Russian).
- GOIN (1996b). Annual of marine water quality with respect to hydrochemical indices for 1993. Obninsk. State Oceanographic Institute, Obninsk. (In Russian).
- GOIN (1996c). Annual of marine water quality with respect to hydrochemical indices for 1994. Obninsk. State Oceanographic Institute, Obninsk. (In Russian).
- GOIN (1996d). Annual of marine water quality with respect to hydrochemical indices for 1995. Obninsk. State Oceanographic Institute, Obninsk. (In Russian).
- Goskomstat (2002). Russian statistical yearbook. Moscow. (In Russian).
- Granberg, I.S., Laverov, N.P and Dodin, D.A. (eds.) (2000). Arctic at the threshold of third millennium (resource potential and ecology problems). Nauka, St. Petersburg, Russia.
- Gunn, A. and Skogland, T. (1997). Responses of caribou and reindeer to global warming. *Ecological Studies* 124:189-200.
- Hinckley, D.A., Bidleman, T.F. and Rice, C.P. (1992). Long-range Transport of Atmosphere Organochlorine Pollutants and Air-Sea Exchange of Hexachloro-cyclohexane. p 243-255 In: Nagel, P.A. (ed.) *Results of the Third Joint US-USSR Bering and Chukchi seas Expedition (BERPAC), Summer 1988*, US Fish and Wildlife Service, Washington, DC.
- Igamberdiev, V.M. and Tereshnikov, O.M. (1994). Assessment of the current environmental state: Norilsk industrial region. In: *People's economy in Komi Republic*, p 54-67. Syktyvkar, Russia. (in Russian).
- IGCE (1996). Review of the ecological state of the seas of the Russian Federation and some regions of the World Ocean for 1993-1995. Russian Institute of Global Climate & Ecology. (In Russian).
- IPCC (1996). *Climate Change 1995: Impacts, Adaptations, and Mitigation of Climate Change: Scientific-Technical Analyses*. Contribution of Working Group II to the Second Assessment Report of the Intergovernmental Panel on Climate Change. Watson, R.T., Zinyowera, M.C. and Moss, R.H. (eds.). Cambridge University Press.
- IPCC (2001). *Climate Change 2001: Impacts, Adaptation and Vulnerability*. Contribution of Working Group II to the Third Assessment Report of the Intergovernmental Panel on Climate Change. McCarthy, J.J., Canziani, O.F., Leary, N.A., Dokken, D.J. and White, K.S. (eds.) Cambridge University Press.
- Izrael, Y.A., and Tsyban, A.V. (eds.) (2000). *Dynamics of the Bering and Chukchi seas ecosystems*. Nauka publishing house, Moscow, Russia. (in Russian).
- Izrael, Y.A., Tsyban, A.V., Shchuka, S.A. and Mosharov, S.A. (2002). World ocean ecosystem changes caused by anthropogenic impacts, including climate changes. *Atmospheric and ocean physics*. Vol. 38, Suppl. 1. Izvestiya RAS.
- Izrael, Y.A., Vasilenko, N.V., Dlikman, I.F., Nazarov, I.M. and Fridman, Sh.D. (1992). The problem of environmental pollution by benzo(a)pyrene. *Meteorology & Hydrology* 9:36-48 (In Russian).

- Izrael, Y.A. and Tsyban, A.V. (eds.) (1992). Review of the ecological state of the seas of the USSR and several regions of the world ocean for 1990. Committee of Hydro-meteorology, Academy of Science of the USSR, Institute of Global Climate and Ecology, St Petersburg (In Russian).
- Izrael, Y.A. and Tsyban, A.V. (1989). Anthropogenic ecology of the ocean. Gidrometeoizdat, Leningrad. (In Russian).
- Izrael, Y.A. and Tsyban, A.V. (eds.) (1990). Investigation of the Bering Sea ecosystem. Issue 2. Gidrometeoizdat, Leningrad. (In Russian).
- Izrael, Y.A. and Tsyban, A.V. (eds.) (1992). Investigation of the ecosystems of the Bering and Chukchi seas. Issue 3. Gidrometeoizdat, St. Petersburg. (In Russian).
- Jantunen, L.M. and Bidleman, T.F. (1995). Reversal of the air-water gas exchange direction of hexachlorocyclohexanes in the Bering and Chukchi seas: 1993 versus 1988. *Environmental Science and Technology* 29(4):1081-1089.
- Langdon, S.J. (1995). Increments, ranges and thresholds: human population responses to climate change in northern Alaska. p 139-154 In: Peterson, D.L. and Johnson, D.R. (eds.) *Human Ecology and Climate Change*. Taylor & Francis, Washington, DC, USA.
- Luzanskaya, D.I. (1970). Industrial fishery in lakes, rivers and reservoirs of USSR in 1959-1966. p 3-137 In: *Proceedings of GosNIORCK*, Vol.70. Leningrad.
- Lvov, D.S. (2002). *Economy of development*. Moscow, Russia.
- Maxwell, B. (1997). Responding to Global Climate Change in Canada's Arctic. Volume II of the Canada Country Study: Climatic Impacts and Adaptation. Environment Canada, Downsview, Ontario, Canada.
- McGillivray, D.G., Agnew, T.A., McKay, G.A., Pilkington, G.R. and Hill, M.C. (1993). Impacts of climatic change on the Beaufort sea-ice regime: implications for the Arctic petroleum industry. *Climate Change Digest* CCD 93-01. Environment Canada, Downsview, Ontario, Canada.
- MEPNR (1994). State of the environment of the Russian Federation for 1993. State report. Ministry of the environmental protection and natural resources of the Russian Federation. Moscow. (in Russian)
- Mikhailova, L.V. (1995). Chemical contamination - One of the main ecological problems of Ob-Irtysh region. Paths and means of reaching of balanced ecologic-economic development in petroleum regions of Western Siberia. Nizhnevartovsk.
- Moldan, B. and Billharz, S. (1997). Introduction. p 1-6 In: Moldan, B, Billharz, S., and Matravers, R. (eds.) *Sustainability Indicators: a report on the project on Indicators of Sustainable Development*. SCOPE 58. J. Wiley & Sons, New York, USA.
- Moritz, R.E. (ed.) (1990). *Arctic System Science, Ocean-Atmosphere-Ice Interactions*. Proceedings of the Lake Arrowhead Workshop, Joint Oceanographic Institutions.
- Mulvaney, K. (1998). Arctic voices: global warming is changing the traditional Eskimo environment. *New Scientist* 160(2160):55.
- Myagkov, S. (1995). Geography of natural risks. Moscow State University 125-228. (In Russian).
- Nuttall, M. (1998). *Protecting the Arctic: Indigenous Peoples and Cultural Survival*. Harwood Academic Publishers, Amsterdam, The Netherlands.
- Oil and Capital (2001) Publication on oil and gas for the Russian and CIS regions. 2001:2. (In Russian).
- ORNL (2003). *Landscan 2002*. Oak Ridge National Laboratory. Retrieved Nov. 2003 from <http://www.ornl.gov/gist>
- Ono, K.A. (1995). Effects of climate change on marine mammals in the far north. p 105-122 In: Peterson, D.L. and Johnson, D.R. (eds.) *Human Ecology and Climate Change*. Taylor & Francis, Washington DC, USA.
- Patin, S.A. (2001). Oil and ecology of a continental shelf. Moscow: VNIRO. (In Russian).
- Peterson, D.L. and Johnson, D.R. (eds.) (1995). *Human Ecology and Climate Change*. Taylor & Francis, Washington DC, USA.
- Putin V. (2004) President's report to voters. Moscow State University, 12.02.2004. (In Russian).
- Rees, W.G. and Williams, M. (1997). Satellite remote sensing of the impact of industrial pollution on tundra biodiversity. p 253-282 In: Crawford, R.M.M. (ed.) *Disturbance and Recovery in Arctic Lands, An Ecological Perspective*. Springer Verlag, Berlin, Germany.
- Regions of Russia. (2002). *Socio-Economical Indices*. Goskomstat of the Russian Federation. (In Russian).
- Revich, B. (1994). Atmosphere pollution and northern cities population health. *Narodnoe hozaystvo Respubliki Komi* 1:83-87. (in Russian).
- Roshydromet (1996a). Annual of quality of surface water of the Russian Federation. VNIIGMI-MCD, Obninsk (In Russian).
- Roshydromet (1996b). Annual report on the state of the surface waters in Russia (with respect to hydrobiological indices). VNIIGMI-MCD, Obninsk (In Russian).
- Roshydromet (1997). Review of the environmental pollution of the Russian Federation for 1996. Roshydromet. (In Russian).
- Roshydromet (1998). Review of the environmental pollution of the Russian Federation for 1997. Roshydromet. (In Russian).
- Roshydromet (1999). Review of the environmental pollution of the Russian Federation for 1998. Roshydromet. (In Russian).
- Roshydromet (2000). Review of the environmental pollution of the Russian Federation for 1999. Roshydromet. (In Russian).
- Roshydromet (2001). Review of the environmental pollution of the Russian Federation for 2000. Roshydromet. (In Russian).
- Roshydromet (2002). Review of the environmental pollution of the Russian Federation for 2001. Roshydromet. (In Russian).

- Rovinskiy, F.Y. and Gromov, S.G. (1996). Sources and monitoring of trace metal in air and sediments of Russian Arctic. ACOPS.
- Russian Federal Council (2002). Energetic strategy of Russia until 2020. Problems and ways of Solution. Moscow, Federal Council of the RF Federal Assembly, 18.10.2002.
- Sabo, G. (1991). Long-Term Adaptations Among Arctic Hunter-Gatherers. Garland Publishing, London, United Kingdom.
- SB RF. (1995). Ecological Safety of Russia. Volume 1. Proceedings of the Inter-Agency Commission on Ecological Safety. October 1993-July 1994. Security Council of the Russian Federation. Inter-Agency Commission on Ecological Safety. Moscow: Yuridicheskaya Literatura.
- Sklair, L. (1991). Sociology of the Global System. Harvester Wheatsheaf, London, United Kingdom.
- Taalas, P. (1993). Factors affecting the behaviour of tropospheric and atmospheric ozone in the European Arctic and in Antarctica. Report No. 10. Finnish Meteorological Institute Contributions, Finnish Meteorological Institute, Helsinki, Finland.
- Taalas, P., Damski, J., Korpela, A., Koskela, T., Kyro, E. and Braathen, G. (1995). Connections between atmospheric ozone, the climate system and ultraviolet-B radiation in the Arctic. p 411-426 In: Wang, W.C. and Isaksen I.S.A. (eds.) Ozone as a climate gas, Vol. 32. NATO ASI Series. Springer-Verlag, Heidelberg, Germany.
- Taalas, P., Damski, J., Kyro, E., Ginzburg, M. and Talamoni, G. (1997). The effect of stratospheric ozone variations on UV radiation and on tropospheric ozone at high latitudes. Journal of Geophysical Research 102 D1 1533-1539.
- Thompson, D.W.J. and Wallace, J.M. (2000). Annual modes in the extratropical circulation, part II: Trends. Journal of Climate 13:1018-1036.
- Tsyban, A.V. (1999). The BERPAC project: Development and overview of ecological investigations in the Bering and Chukchi seas. Dynamics of the Bering Sea. Loughlin, T.R., and K. Ohtani (eds.). University of Alaska Sea Grant, AK-SG-99-03, Fairbanks.
- Tsyban, A.V., Ivanitsa, V.A., Khudchenko, G.V. and Panov, G.V. (1992). Ecosystem investigation of the Bering and Chukchi seas. Leningrad, Gidrometeoizdat. (In Russian).
- Vedernikov, V.I., Demidov, A.B. and Sudbin, A.I. (1994). Primary production and chlorophyll in the Kara Sea in September 1993. Oceanology 34(5):693-703.
- Vilcheck, G.E. and Tishkov, A.A. (1997). Usinsk oil spill: Environmental catastrophe or routine event? In: Crawford, R.M.M. (ed.) Disturbance and Recovery in Arctic Lands, An Ecological Perspective. NATO-ASI Series, No. 2, Environment, Vol. 25., p 411-420. J. Kluwer Academic Publishers, Dordrecht, The Netherlands.
- Vilchek, G., Krasovskaia, T. and Sumina, E. (1996). Problems of the Arctic pollution. Ecological security of Russia. Proc. Mezvedomstvennaya komissia po ecologi-cheskoi bezopasnosti. V.2:232-267. (In Russian).
- Warren, D.M., Slikkerveer, L.J. and Brokensha, D. (eds.) (1995). The Cultural Dimension of Development: Indigenous Knowledge Systems. Intermediate Technology Publications, London, United Kingdom.
- Watson, R.T., Zinyowera, M.C., Moss, R.H. and Dokken, D.J. (eds.) (1998). The Regional Impacts of Climate Change. An Assessment of Vulnerability. A Special Report of IPCC Working Group II for the Intergovernmental Panel of Climate Change. Cambridge University Press, Cambridge, United Kingdom and New York, USA.
- Weller, G. and Lange, M. (1999). Impacts of Global Climate Change in the Arctic Regions. International Arctic Science Committee, Center for Global Change and Arctic System Research, University of Alaska, Fairbanks, AK, USA, p. 1-59.
- Yevseev, A. and Krasovskaia, T. (1996a). Modern Subpolar geosystems of Russia (Ecological-geochemical problems). Smolensk 1:193-217. (in Russian).
- Yevseev, A. and Krasovskaia, T. (1996b). Recreation resources assessment of the Russian North. Smolensk 2: 5-19. (in Russian).
- Yevseev, A. and Krasovskaia, T. (1996c). Optimisation of nature management structure in the strategy of sustainable development of the Russian North. Proc. International Conference Lomonosov and national heritage of Russia, Arhangel, 3:(1)26-29.
- Zalagin, B.S. and Kosarev, A.N. (1999). Seas. Mysl publishing, Moscow. (In Russian).
- Zenkevich, L.A. (1977). Peculiarity of a biological state of Polar basin and our Northern seas. p 224-230 In: Selected transactions. v. 1. A biology of the Northern and Southern seas of the USSR. Nauka Moscow. (In Russian).