

Russia TCODE Report

October 7, 2005

Prepared by Igor Shevchenko and Georgiy Moiseenko

1. Key Institutions/Key Persons:

Fisheries Institutes

Pacific Fisheries Research Center (TINRO-Center)

<http://www.tinro-center.ru>

Igor Shevchenko

Russian Federal Research Institute of Fisheries & Oceanography (VNIRO)

<http://www.vniro.ru>

Georgiy Moiseenko

Khabarovsk Branch of Pacific Fisheries Research Center (KhOTINRO)

[http://www.???.???](http://www.???)

Vladimir Shemyakin

Magadan Institute of Fisheries and Oceanography (MagadanNIRO)

[http://www.???.???](http://www.???)

Igor Izergin

Chukotka Institute of Fisheries and Oceanography (ChukotNIRO)

[http://www.???.???](http://www.???)

Sergey Palma

Sakhalin Institute of Fisheries and Oceanography (SakhNIRO)

<http://www.sakhniro.ru>

George Shevchenko

Kamchatka Research Institute of Fisheries & Oceanography (KamchatNIRO)

<http://www.kamchatka.ru/~kamniro/>

Peter Vasilets

Russian Federal Fisheries Agency

<http://www.fishagency.ru>

Institute for Economics, Information and Automatic Systems in Fisheries (VNIERKH)

<http://www.vnierkh.ru>

Atlantic Research Institute of Marine Fisheries and Oceanography (AtlantNIRO)

<http://www.atlantniro.ru/en/index.html>

Caspian Institute of Fisheries (KaspNIRKH)

<http://www.caspnirh.astranet.ru>

Polar Marine Fisheries Institute (PINRO)

<http://www.pinro.ru>

Alex Gordov

National Center of Monitoring (NCMC)

<http://www.ncmc.ru>

Yuri Nikolaev

Kamchatka Center for Communications and Monitoring (KCCM)

<http://www.kccm.ru>

Victor Reznikov

Hydrometeorological Institutes

All-Russian Research Institute of Hydrometeorological Information – World Data Center (RIHMI-WDC)

<http://www.meteo.ru>

Nickolay Mikhailov

State Oceanographic Institute (SOI)

<http://www.oceanography.ru>

Alexander Postnov

Arctic and Antarctic Research Institute (AARI)

<http://www.aari.ru>

Vladimir Sokolov

Far Eastern Regional Hydrometeorological Research Institute (FERHRI)

<http://rus.ferhri.ru>

Nikolay Rykov

Academy of Science

Pacific Oceanological Institute (POI)

<http://www.pacificinfo.ru>

Igor Rostov

Space Research Institute (IKI)

<http://www.iki.rssi.ru>

Evgeny Loupian

2. Existing Data and Metadata Sets

Agency	Division	Data/Metadata Description	<u>URL</u>
Russian Federal Fishery Agency	TINRO	Cruise metadata base	http://metadata.tinro.ru
	TINRO	Russian annual fishery statistics for Far East seas	http://vsurf.tinro.ru/index.jsp
	VNIRO	Russian annual fishery statistics	http://www.vniroinfo.ru/vserf/index.jsp
	NCMC	Near real time fishery statistics	http://www.ncmc.ru

Federal Service for Hydrometeorology and Environmental Monitoring	National Oceanographic Data Center (NODC)	Global hydrographic station data; temperature, salinity, and interdisciplinary data sets	http://www.meteo.ru/nodc/index_e.html
	NODC	Traveling over oceanography information resources	http://www.meteo.ru/nodc/Travel_e/index.htm
	Hydrometeorological Centre of Russia	Climate temperature and precipitation data Weather forecasts	http://meteoinfo.ru http://hmc.hydromet.ru/english/index_e.html
	AARI	Ice charts and forecasts	http://www.aari.ru
	AARI	Interdisciplinary Arctic seas data bases	http://www.aari.nw.ru/projects/ECIMOT/index.htm
	SOI	Hydrographic, meteorology and pollution data for Russian seas	http://www.oceanography.ru/esimo
	FERHRI	Hydrographic station data; temperature, salinity; interdisciplinary data	http://rus.ferhri.ru
Russian Academy of Science	IKI	Satellite data (NOAA, GOMS, RESURS)	http://www.iki.rssi.ru http://smis.iki.rssi.ru/welcome.html
	POI	Hydrographic observations (national and foreign) in the Northern Pacific	http://www.pacificinfo.ru

The Russian Federal Program ESIMO portal <http://www.oceaninfo.ru> is an entry point to sites maintaining governmental information funds of data on the state of the World Ocean and coastal areas.

3. Technical Methodologies

4. Ongoing Data Management Programs

The Unified System of Information on the World Ocean State (ESIMO)

<http://www.oceaninfo.ru>

5. Real-time data sources:

NCMC	Russian fishery statistics	http://www.ncmc.ru
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6. Data visualization and analysis

- **Atlas of quantitative distribution of nekton species in the Okhotsk Sea /edited by V.R Shuntov and L.N. Bocharov. — Moscow: PGUP “National Fish Resources” Publishing, 2003. — 1040 pp.**

The atlas summarizes catch data for fishes, cephalopods and crustaceans by 1x1 degree quadrangles based on the pelagic trawlings data from TINRO-Center research cruises after 1980. Based on the catch per area method the abundance and biomass (inds./km² and kgs/knf) of nekton groups and species per area were calculated in relation to seasonal and interannual dynamics.

- **Atlas of nekton species quantitative distribution in the north-western part of the Japan Sea /edited by V.P. Shuntov and L.N. Bocharov. — Moscow: “Natsionalnye rybnye resursy” Publishers, 2004. — 988 pp.**

The atlas summarizes catch data for fishes, cephalopods and crustaceans by 1x1 degree quadrangles based on the pelagic trawlings data from TINRO-center research cruises since 1981 till 2003. Based on the catch per area method the abundance and biomass (inds./km² and kgs/km²) of nekton groups and species per area were calculated in relation to seasonal and interannual dynamics.

- **Nekton of the Okhotsk Sea. Abundance, biomass and species ratio / Edited by V.P. Shuntov and L.N. Bocharov. •• Vladivostok: TINRO-Centre, 2003. — - 643 p.**

The abundance and biomass information for the Okhotsk Sea nekton species and groups (fishes, cephalopods and crustaceans) is summarized in the book for 14 biostatistical regions. The data from complex expeditions, which were conducted during 1984-2003 period by TINRO-Centre, are used. They are grouped into three periods (1984-1990, 1991-1995 and 1996-2003), which differ in climate-oceanological conditions and status of biological resources. Besides of this, quantitative information was summarized for different seasons and vertical zones of the sea.

- **Nekton of the northwestern part of Japan (East) Sea. Abundance, biomass and species ratio / Edited by V.P. Shuntov and L.N. Bocharov. — Vladivostok: TINRO-Centre, 2004. — 225 p.**

Abundance and biomass information for the northwestern part of Japan (East) Sea nekton species and groups (fishes, cephalopods and crustaceans) is summarized in this book for 8 biostatistical regions. Data from the complex expeditions, which were conducted during 1981-2003 by TINRO-Center, are used. They are grouped into three periods (1981-1990, 1991-1995 and 1996-2003), which differ in climate-oceanological conditions and status of biological resources. Besides of this, quantitative information was summarized by different seasons and vertical zones of the Sea.

7. Regulations for data exchange

Federal laws:

Федеральный закон от 20 февраля 1995 г. N 24-ФЗ "Об информации, информатизации и защите информации"

<http://copyright.iile.ru/law/rus/inf.html>

Закон РФ от 23 сентября 1992 г. N 3523-I "О правовой охране программ для электронных вычислительных машин и баз данных (в ред. Федерального закона от 24.12.2002 N 177-ФЗ)"

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