

Approved by The Head of the Russian Federation Federal Service for
Hydrometeorology and Environmental Monitoring

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THE PLAN
Improvements of professional skill for 2008

N	<i>Theme of a training course</i>	<i>Table of contents of training</i>	<i>The period, Quantity(Amount) of students in group and a place of training</i>
1. BASES OF MANAGEMENT. HYDROMETEOROLOGICAL MANAGEMENT			
1.1	Accounting and financial activity in system of the Federal Service for Hydrometeorology and Environmental Monitoring	Budgetary classification. Bookkeeping and the reporting. Drafting of the accounting report with use of the software 1: C. The Comments to documents of the Ministry of Finance of Russia. The analysis of financial and economic activity. Consideration of typical disadvantages of activity of financial services of the organizations of the Federal Service for Hydrometeorology and Environmental Monitoring	21.04-26.04 Zheleznodorozhny
1.2	The organization and tendering on purchase of the goods for the state needs	The organization, management, ordering, providing of the government buying (the Federal law ' 94-FL dated 21.07.2005)	24.03-29.03 08.09-13.09 Zheleznodorozhny
1.3	Legal regulation of labour attitudes(relations). The labour legislation	The labour code of the Russian Federation in system of laws and other normative legal certificates(acts) about work. Features of application of normative legal certificates(acts) about work in view of the accepted changes of the Labour code of the Russian Federation statement of system of personnel office-work with the purpose of optimization and reductions of costs on personnel document circulation. Rules of registration of personnel documents, work-record cards. New statutory acts on questions of social security of workers	06.10-11.10 Zheleznodorozhny
2. HYDROMETEOROLOGICAL providing of business - economic ACTIVITIES			
2.1	Methods of hydrological forecasts. Service of consumers with the data of forecasts. Formation of information resources of Federal Hydrometeorology and Environmental Monitoring Service with use of an automated workplace hydrologist-forecaster	The organization of service of hydrometeorological forecasts. Modern methods of hydrological forecasting. Efficiency of hydrological forecasts. Prediction and the forecast of water stage of the rivers, other characteristics of water relationships. Marketing in hydrological service. Formation of information resources of Federal Hydrometeorology and Environmental Monitoring Service with use of an automated workplace hydrologist-forecaster.	28.01-09.02 Zheleznodorozhny

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2.2	The hydrometeorological information for the decision of problems of building branch	Studying of normative and technical documents in the building industry. The analysis of the reasons of insufficient interaction with the design organizations, studying of directions of expansion of participation of the organizations of the Federal Service for Hydrometeorology and Environmental Monitoring in carrying out of hydrometeorological examination and engineering hydrometeorological researches at construction and reclaiming of territories. Utilization of the hydrometeorological information at designing, construction and operation of objects	25.02-01.03 Zheleznodorozhny
2.3	Methods of short-term , medium-term -and long-term forecasting of weather. An automated workplace of the weather forecaster	Absorption of methods of modern technologies of supershort-term, short-term, intermediate term and long-term weather forecasting, including collecting , processing of the hydrometeorological information. Forecasts of non-dangerous hydrological events and dangerous events. Forms of representation of forecasts to the consumer. Practice of work of national hydrometeorological services on meteorological supplying of the population. Modernization of application of the operative meteorological information. An automated workplace of the weather forecaster of system GIS METEO. Traineeship in Hydrometeocenter of Russia	04.02-16.02 20.10-01.11 Zheleznodorozhny
2.4	The organization of meteorological service of aviation	Management directives on airmeteorological support , organizational - methodical documents ICAO . The organization of work of AMC and AMCC . Technical facilities , requirements for supplying AMC and AMCC with technical facilities in airports. An automated workplace of systems KRAMS (AMMC). Economic aspects of meteorological supporting of aviation . Certification of airports . ICAO Requirements for airports. Investigation of aviation incidents and preconditions to them.	17.03-22.03 22.09-27.09 Zheleznodorozhny
2.5	Meteorological forecasting for service of aviation	Studying of new methods of short-term and supershort-term aviation weather forecasting. Forms of representation and terminology of aviation weather forecasts. Use of the radar-tracking and satellite data at prediction of aviation forecasts. The automated methods of processing of the airmeteorological information, including the order, methods and systems of meteorological service of the international air navigation. Aviation climatology Training in SAMC	31.03-12.04 17.11-29.11 Zheleznodorozhny
2.6	Methods and facilities of agrometeorological observation. Methods of processing and the control of agrometeorological information. Agrometeorological forecasting and service of f the	Specialities of the organization agrometeorological observation in modern conditions. The basic methods agrometeorological observation and new means of measurements. Estimated methods of definition agrometeorological parameters. The methods of monitoring. The program and methodology of inspection of stations and observer's stations . A system of software on analysis and transmitting of agrometeorological information. An automated workplace of agrometeorologist . Agroclimatic processing of results of observation . Studying of the new and advanced methods agrometeorological forecasts and interpretation Agrometeorological information. Problems of	07.04-19.04 Obninsk

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	interested consumers with agrometeorological information	the organization of agrometeorological observation in the new conditions of modern economy . Information hydrometeo – service of the system of agriculture supported by state.	
2.7	The specialized hydrometeorological service of branches of economy and questions of its quality	Studying of methods of the specialized hydrometeorological service of branches of economy. The situation and the basic directions of development specialized hydrometeo service . The normative and technical documents regulating application of the hydrometeorological information. The elements of marketing technologies	02.06-07.06 Zheleznodorozhny
2.8	Supply with information of authorities of regions with prediction and emergency information. The order of information interaction between Organizations of Prediction Organizations of the Federal Service for Hydrometeorology and Environmental Monitoring with bodies of the Ministry of Emergency and civil defense of Russia	The federal legislation in the field of protection of the population from emergency situations of natural character. Functioning subsystems of the Federal Service for ydrometereology and Environmental Monitoring " Storm " and "Tsunami". The dangerous hydrometeorological phenomena. The organization of information interaction between Predictional Organizations of the Federal Service for Hydrometereology and Environmental Monitoring and Organizations of the Ministry of Emergency Measures of Russia at a federal and regional (local) level. The organization and order of HMS and ACBP. The supply with information of authorities of regions and subjects of the Russian Federation with prediction and emergency information. The order of carrying out of inspection of zones (territories) of the dangerous hydrometeorological phenomena. The order and rules of drawing up of the documentation with results of inspections	16.06-21.06 Zheleznodorozhny
2.9	Economic meteorology	The Value and role of economic meteorology for activity of the organizations of the Federal Service for Hydrometereology and Environmental Monitoring. The review of methods of an estimation of economic efficiency of the hydrometeorological supporting . The assessment of influence of weather conditions on various aspect of economic activities. The workshop on questions of economic meteorology	15.09-20.09 Zheleznodorozhny
2.10	Licensing in the field of hydrometeorology and adjacent areas	Legislative base on licensing, The organization of work with competitors of the license. Requirements to licensees on check of observance of The normative-methodical base of Federal Hydrometereology and Environmental Monitoring Service, representation of the information in Uniform State Fund of the Data (USFD). Preparation and registration of the conclusions on consideration of the application(statement) and materials on reception of the license, certificates(acts) on observance of license requirements and conditions, reports on	19.05-24.05 Zheleznodorozhny

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		administrative offences at realization of works in the field of hydrometeorology and monitoring of environmental contamination	
<p align="center">3. THE GROUND HYDROMETEOROLOGICAL NETWORK. METHODS, Facilities OF Observation , PROCESSINGS AND transmitting OF THE HYDROMETEOROLOGICAL INFORMATION. ACTIVE impact</p>			
3.1	Modern methods and means of studying of pollution of the seas and sea outflows of the rivers	Studying of the new and advanced methods and means of assessment of pollution of the sea environment, including sea aerosols. Scientific - methodical management of marine observant network. Archiving of the data received with help of marine hydrometeorological observation, prospects of transition of processing of marine observation data from technical carrier units to electronic variant	14.04-19.04 Zheleznodorozhny
3.2	Methods and means of the control of radioactive pollution of the natural environment	Observation of radiating conditions, the installation and maintenance of new means of measurement. The system of processing, analyzing of the data and informing of consumers. The principium of construction, functioning and application of the Integrated automated system of data collecting about radiating conditions. A complex of software on the analysis and data processing about radiating conditions	12.05-17.05 Obninsk
3.3	The organization of activity of the state observant network and its functioning in modern conditions	Studying of requirements to allocation of stations of meteorological observation in view of changed requirements to the meteorological information. Aspects of modernization of a network. Marketing in hydrometeorology. Requirements to a hardware, methods of observation and processings of the information. Studying of methods and practice of a management, inspection of a meteorological network. -Normative-legal documents on security of a hydrometeorological network. A departmental observant network. The requirement to licensing observation and works. Observance of requirements on conducting the State Fund of the data on a condition of an environment. The organization of work of the inspector. The automated system of collecting, the control, primary processing and accumulation of the current meteorological information of stations and posts. Registration of the ground areas, federal property, the ground tax.	07.04-19.04 St.-Petersburg
3.4	Modern aspects of monitoring of pollution of an atmosphere	Normative-legal base of carrying out monitoring of pollution. A condition of network monitoring of pollution of an atmosphere and a chemical compound of an atmospheric precipitation. The organization of supervision, the analysis and an estimation of pollution of an atmosphere in territory of the Russian Federation. Development of technology of application of the information on pollution of atmospheric air and a chemical compound of deposits. Devices and methods of the chemical analysis of tests of air and	12.05-24.05 St.-Petersburg

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		metrological maintenance of methods of measurements. New in measurement techniques of gas and aerosol impurity. Principles settlement and hybrid Monitoring of pollution of an atmosphere. The forecast and operative definition of zones of infection at technological failures. Methods of forecasting of air pollution on region, cities and separate areas of city. Automation and data processing about air pollution.	
3.5	Methods of research ozone layer of the Earth. Instruments and methods of observation , data processings and analysis	The characteristic of ozone in the nature and its value in natural balance. The reasons of destruction of ozone and the international efforts on its prevention. A modern condition of an ozone layer . Questions of monitoring of an ozone cloud. Ozonometric observations : the organization of observation of ozone content (OCO) at stations; modern methods observation for OCO; elements of processing and the analysis of data OCO; the instruments t for carrying out of observation; metrological elements of observation for OCO; practical workshops.	16.06-28.06 St.-Petersburg
3.6	Hydrological calculations (existential generalizations of hydrological characteristics)	Methodology of engineering hydrological calculations in items of hydrometric supervision, spatial interpolation of hydrological characteristics. New programs of calculations of the basic hydrological characteristics: restoration of the hydrological information, plotting security, an estimation of uniformity and stationary. Examination of hydrological Year-books and projects, an estimation of accuracy of initial given supervision, a water cadastre, channel processes, rearrangement of coast and silting water basins, interaction of superficial and underground waters	23.06-05.07 St.-Petersburg
3.7	Automation of collection, control and data processing of hydrological observation	Information system " PERSON - RIVER ".	15.09-27.09 Zheleznodorozhny (visit to Valdai)
3.8	Monitoring of pollution of superficial waters of a land. Principles of the organization of system of the monitoring, new methods and means	Normative -lega base of monitoring, development of use of the hydrochemical information, the review of the software of calculations of distribution of pollution in case of emergencies. The analysis of quality of waters on hydrobiological parameters. The safety precautions by manufacture of hydrological works. Studying of new methods and means by the example of work with analyzer Fljuorat 02-02M2 with prefix. Processing of the hydrochemical information under the program «Hydrochemist PC»	06.10-18.10 Rostov on Don
3.8	Global and regional changes of a climate. Methods of gathering and processing of the climatic information. Application of	Global and regional changes of a climate. Methods of gathering and processing of the climatic information. Application of automated system KLIKOM for preparation and maintenance of consumers with the climatic information. Realization of joint researches and development on studying a climate and his(its) changes, influence of these changes on social and economic development of regions within the	15.09-27.09 Zheleznodorozhny

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	system KLIKOM	framework of Cooperation agreements in the field of hydrometeorology and monitoring of an environment of territorial bodies and establishments of Federal Hydrometeorology and Environmental Monitoring Service. A practical work on preparation of bulletins of monitoring of a climate and climatic directories	
3.10	Hydrometeorological automatic measuring complexes	Studying and operation of automatic measuring complexes: MA-6-3, MK-14, GRK-1	15.09-27.09 Obninsk