

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

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On January 16, 2007.

THE PLAN

Improvements of professional skill for 2007

N	Theme of a training course	Table of contents of training	The period, Quantity(Amount) of students in group and a place of training
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	23.04-28.04 Zheleznodorozhny
1.2	Legal bases of public service, management of the personnel	Principiums of the modern legislation of the Russian Federation. The basic directions of perfection of personnel administration in system of the Federal Service for Hydrometeorology and Environmental Monitoring . Application of systems and means of automation in work of personnel bodies. Registration and filling of forms of the primary registration documentation of staff according to new enactments . The organization of public service of the Russian Federation and its legal bases. The statutory acts regulating activity of state employees of territorial bodies of the Federal Service for Hydrometeorology and Environmental Monitoring . Registration of pensions for the civil servants.	15.10-20.10 Zheleznodorozhny
1.3	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 1 94-FL dated 21.07.2005)	19.03-24.03 03.09-08.09 Zheleznodorozhny
2. HYDROMETEOROLOGICAL providing of business - economic ACTIVITIES			
2.1	Methods of hydrological forecasts. Service of consumers with the data of forecasts. Automation of collection , control and data processing of hydrological observation	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. Information system " PERSON - RIVER " .	22.01-03.02 Zheleznodorozhny (possible visit to Valdai)

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2.2	The hydrometeorological information for the solution of the building industry objects	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	05.02-10.02 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	05.02-17.02 22.10-03.11 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 (АМИС). Economic aspects of meteorological supporting of aviation . Certification of airports . ICAO Requirements for airports. Investigation of aviation incidents and preconditions to them.	12.03-17.03 24.09-29.09 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	02.04-14.04 12.11-24.11 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 interested consumers with	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	09.04-21.04 Obninsk

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	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	04.06-09.06 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	18.06-23.06 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	10.09-15.09 Zheleznodorozhny
3. THE GROUND HYDROMETEOROLOGICAL NETWORK. METHODS, Facilities OF Observation , PROCESSINGS AND transmitting OF THE HYDROMETEOROLOGICAL INFORMATION. ACTIVE impact			
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 marinehydrometeorological observation , prospects of transition of processing of marine observation data from technical carrier units to electronic variant	26.03-31.03 Zheleznodorozhny

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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	14.05-19.05 Obninsk
3.3	Principles of construction and the organization of work of a ground meteorological network. Methods and technical means of observation , processings and transmitting of the hydrometeorological information	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. -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	09.04-21.04 St.-Petersburg
3.4	Modern aspects of monitoring of pollution of an atmosphere	Legal base of carrying out of monitoring. Development of application of the information on pollution of atmospheric air. The review of the software, calculations of pollution in case of disaster on industrial sites . The order of the organization of works and actions of network divisions during such periods. Requirements under the safety precautions by manufacture of supervision and works. The organization of supervision over ground ozone. Improvement of methods of the forecast of air pollution. A condition of works under the forecast of air pollution, the recommendation on their development. Requirements to methods and means of supervision. Interaction with the organizations which are carrying out supervision	14.05-26.05 St.-Petersburg
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 .	04.06-16.06 St.-Petersburg

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3.6	Hydrological calculations (a modern condition and prospects)	Legal regulation base of hydrological calculations. The order of the organization of hydrological calculations (SP 33-101-2003 Technical regulations on safety. Territorial construction building standards). Expertising of hydrological projects and Year-books, a water cadastre, riverbed processes and rearrangement of river-banks , ice phenomena, urbanization, geographical information systems, mathematical and hydraulic models. Features of calculations of the mountain and boggy rivers, lakes and water basins, interaction of headwater and underground water	25.06-07.07 St.-Petersburg
3.7	Formation of information resources of the Federal Service for Hydrometeorology and Environmental Monitoring with use of an automated workplace of hydrologist – forecaster	Bases of the software of an automated workplace hydrologist-forecaster in technology HRS METEO. Collecting and data processing of observation of hydrologist-forecaster A complex of software for analysis and data delivery . Experience of operative application of an automated workplace of hydrologist-forecaster in Hydrometeorological Centre of Russia	24.09-29.09 Zheleznodorozhny