



SUB REGIONAL COORDINATION OF ICAO METG PT/EAST GROUP AND WG-4 OF CIS



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ICAO and the World Meteorological Organization

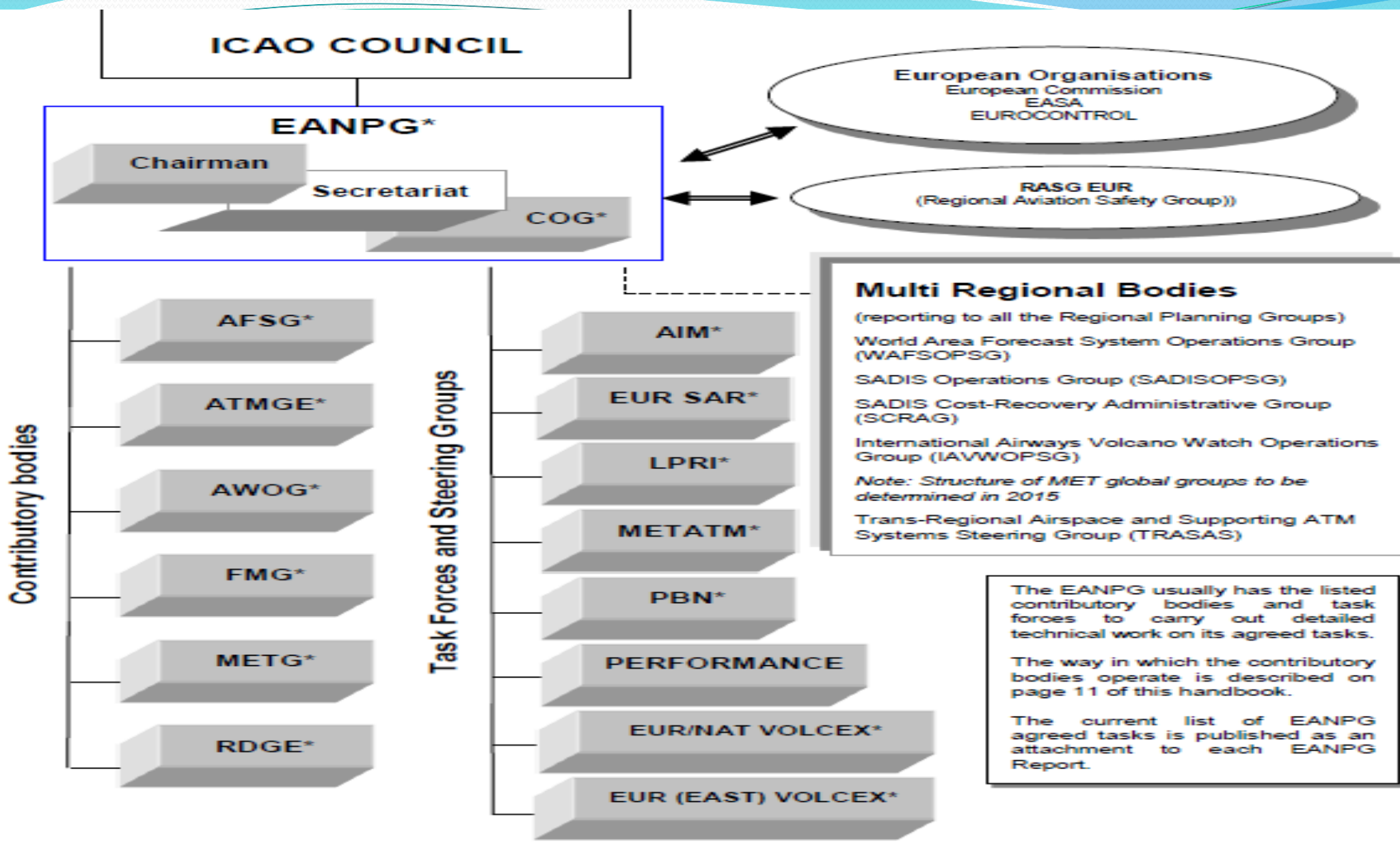
- WMO and ICAO roles and responsibilities in aeronautical meteorology are defined in the Working Arrangements (1953, rev. 1963) as “broad principles”
- ICAO has a primary responsibility for direct collaboration with aviation users for establishment of user requirements for meteorological services
- WMO has a primary responsibility for the development of meteorological techniques, methods and practices to meet those requirements
- ICAO is an organization closely related to the aviation stakeholders (ANS providers, airlines, etc.)
- WMO is an organization closely related to national MET services and research community

EANPG

In 1971 the Sixth European-Mediterranean Regional Air Navigation (RAN) Meeting recommended the establishment of a European Air Navigation Planning Group. In 1972 the Council of ICAO set up the EANPG and established in detail its functions, position in ICAO, composition and the guidelines which should govern its working methods, including relations with States.

The Special European Regional Air Navigation Meeting in Vienna in September 1994 agreed that the efficiency of the EANPG would be significantly enhanced through modified objectives and composition and the clarification of its main functions on the basis of its terms of reference.

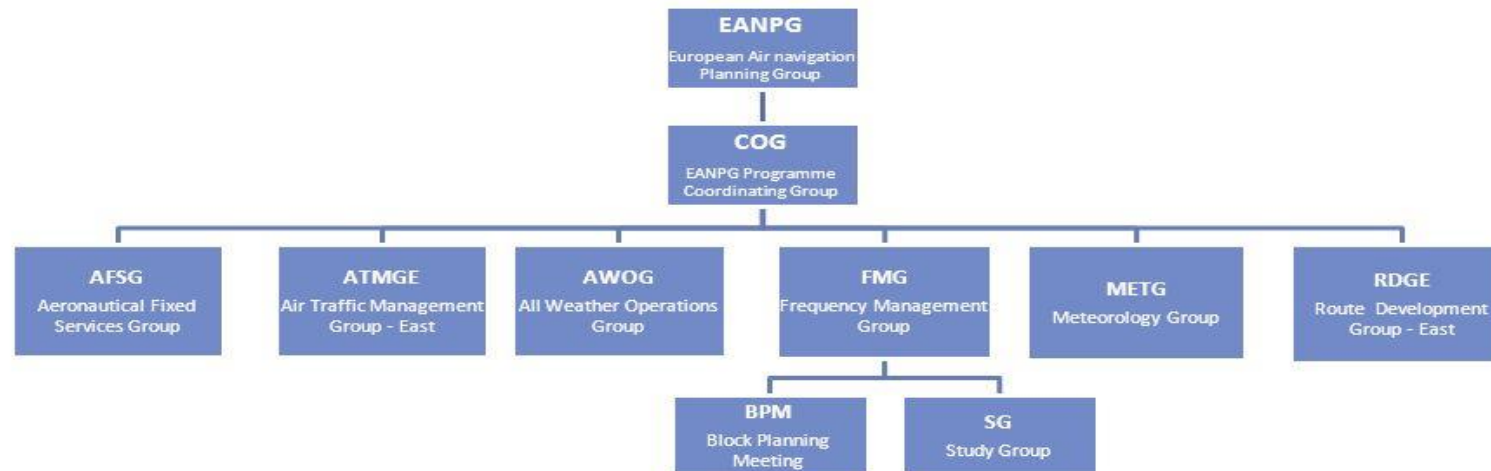
In order to meet these new challenges EANPG/37 (Paris 12-15 September 1995) created the EANPG Programme Coordinating Group (COG) to assist the EANPG Chairman and the ICAO Secretariat to facilitate and coordinate the work of the EANPG between its meetings, avoid duplication of work in any form and maintain a dialogue with other regions.



Objectives of EANPG

- c) to promote and facilitate the harmonization and co-ordination of the air navigation related programmes of other international organizations such as the European Commission (EC), the European Civil Aviation Conference (ECAC), EUROCONTROL, the Interstate Aviation Committee of the Commonwealth of Independent States (IAC/CIS) (within the framework of functions and authority voluntarily delegated by the States of the CIS) including the activities of States and State groupings in the Central, Eastern and Far Eastern Parts of the EUR Region;
- d) to ensure the coherence of the EUR aviation system at regional interfaces with aviation systems of adjacent regions (NAT, NAM, AFI, MID, ASIA and PAC), in line with the ICAO global plans established for that purpose;
- e) to assist States or State groupings in their planning and implementation efforts, if and when required.

ICAO European Structure



METEOROLOGY GROUP (METG)

The Meteorology Group (METG) is established by EANPG in 1990 (EANPG Decision 32/9) to pursue the tasks of the Group in the field of aeronautical meteorology in support to the relevant ICAO Strategic Objectives (mostly Safety and Efficiency, and to certain extent, Environment and Continuity) with the following TORs:

- a) Ensure the continuous and coherent development of the MET Part of the European electronic Air Navigation Plan (eANP) and other relevant regional documents taking into account the evolving operational requirements in the EUR Region and the need for harmonization with the adjacent regions in compliance with the Global Air Navigation Plan;
- b) Monitor and coordinate implementation of the relevant ICAO SARPs and regional meteorological procedures, facilities and services by the EUR States and where necessary ensure harmonization, taking due account of financial and institutional issues;
- c) Review, identify and address deficiencies and shortcomings that constitute major obstacles to the provision of safe and efficient MET service, and recommend remedial actions;
- d) Foster implementation by facilitating the exchange of know-how and transfer of knowledge and experience, in particular, between the Western and Eastern parts of the Region;
- e) Provide necessary assistance and guidance to States to ensure harmonization and interoperability in line with the GANP, the EUR/NAT ANP and ASBU methodology;
- f) Provide input to the work of appropriate ICAO bodies in the field of aeronautical meteorology, according to the established procedures;
- g) Receive and discuss proposals from States for developing new or amending existing ICAO provisions; and
- h) Discuss consequences of scientific issues impacting operational aeronautical meteorology including and developments of latest technology from pilot research programmes and findings from local/ regional initiatives with the aim to improve the service provision in the EUR region.

METG

To ensure that the objectives of METG are met in accordance with the TORs, the group shall conduct its work according to a Work Programme endorsed by EANPG and kept under review by the COG. The following are the main principles to be followed in setting up the Work Programme of METG:

d) To facilitate the execution of its work programme, METG may set up Project Teams, if and when required, charge them with specific tasks and define target dates for their completion. After completion of the task(s), the Project Team(s) will be dissolved.

PT/EAST

The Project team on implementation of MET Service in Eastern part of the European region, including Central Asia (METG PT/EAST) has been created in 2000 at the initiative of the Baltic states generally of Latvia.

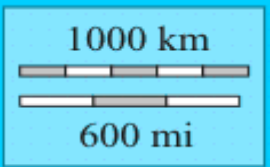
The expert from Latvia Eviya Leytlande was the first chairman of this working group. At a meeting in Tashkent the expert has been elected from Ukraine Vasily Sitak the chairman of PT/EAST and in 2011 at meeting in Tbilisi Nino Gelovani has been elected by the chairman of PT/EAST.

From the moment of creation till 2012 of the group of PT/EAST meetings have been held in the cities: Baku, Riga, Moscow, Chisinau, Tashkent, Bishkek, Vilnius, Alma-Ata, Kiev, Minsk, Tbilisi.

PT/EAST

The main objectives of Project Team was:

- i) assess the actual status of implementation of current ICAO provisions in the MET field in the States of the Eastern part of the ICAO European Region, including Middle Asia;
- ii) identify the current and foreseen MET requirements in the States of the Eastern part of the ICAO European Region, including Middle Asia;
- iii) conduct a comparative analysis between i) and ii) and carry out necessary studies to identify the problems;
- iv) identify the requirements for further actions by States (sub-regional co-operation), training, additional ICAO Special Implementation Projects (SIPs), and transfer of know-how, etc;
- v) propose solutions to the identified problems and define priorities for their implementation;
- vi) regularly report to the METG on the progress made and formulate proposals for further consideration by the METG.



Composition of PT/EAST

- Azerbaijan,
- Belarus,
- Georgia,
- Russian Federation,
- Ukraine
- Uzbekistan
- Armenia,
- Kazakhstan,
- Kyrgyzstan,
- Republic of Moldova,
- Tajikistan

CIS INTERSTATE COUNCIL FOR HYDROMETEOROLOGY WORKING GROUP-4 - METEOROLOGICAL SERVICES FOR CIVIL AVIATION



Working group 3 "Meteorological services for civil aviation" (RG-3) of Interstate council for hydrometeorology (MSG) of the Commonwealth of Independent States (CIS) has been created in 1992.

the structure of RG-3 is updated and presented by 17 of her members from 8 states of the CIS.

At its 25th session held in Yerevan in 2013, the CIS Interstate Council for Hydrometeorology decided to restructure the working groups, adopting special provisions.

As a result, the Working Group -3 - *Meteorological Services for Civil Aviation* – changed its name to the CIS ICH Working Group -4.

First Con-joint meeting of PT/EAST and WG-3 Astana 2012

In order to ensure that MET information can better fulfil today's and tomorrow's operating environment, ICAO's Meteorological Aeronautical Requirements and Information Exchange,
It was decided to conduct annual PT/EAST and WG-3 CIS states meeting together.
The initiative was endorsed by ICAO EUR NAT Office



THE FIRST CONJOINT MEETING 2012 ASTANA

Nino Gelovani St-Petersburg 2016

Main outcomes from the first meeting

- a) To improve Meteorological Services to Air Traffic Management (MSTA) and Meteorological Information Exchange (MIE);
- b) To implement Competency Assessment of Aeronautical Meteorological Personnel (AMP) – Members' implementation of competency assessment of AMP by 1 December 2013;
- c) Quality Management System (QMS) of Aeronautical Meteorological Service – Members' implementation of QMS in compliance with ICAO Annex 3 by 15 November- 2012;
- d) SIGMET deficiencies – to reduce current deficiencies of all types of SIGMET by Meteorological Watch Offices (MWOs);
- e) Volcanic ash, space weather and nuclear events monitoring and forecasting.



The second con joint meeting was held in Yerevan in 2013

The meeting was attended by 27 experts, representing the, PT/EAST, WG-3 and CIS countries, including Armenia, Georgia, Kazakhstan, Lithuania, Moldova, the Russian Federation, and Ukraine .



Based on main outcomes from intersession period was decided:

- 1. To Continue Implementation of competency assessment process of Aeronautical Meteorological Personnel according to WMO requirements by 1 Dec 2013 in the Eastern Part Europe Countries including Central Asia
- 2. Analyze, Survey, Assess additional job competency requirements concerning English language proficiency for aeronautical meteorological personnel providing oral flight briefings to operators and flight crew members performing international flights.
- 3. Continue implementation of Amendment 76 to ICAO Annex 3, elaborate related changes in their national regulatory documents of PT/EAST countries.
- 4. Reduce current deficiencies (including format/coding compliance) of all types of SIGMET and AIRMET by the Meteorological Watch Offices (updating databases), Coordinate with the States, ICAO Regional Office, and other ICAO regions (through the Regional Office) on activities required to improve interregional exchange of data and achieve requirements of ICAO SARPs.
- 5. Improve a uniform approach to TAF assessment in the CIS countries
- 7. Preparation of next PT/EAST₁₄ and for METG/24 (preparation for Divisional ICAO/WMO meeting 2014)

The joint CIS ICH WG-3/ICAO METG PT/EAST/14 meeting in Tbilisi, Georgia,



- The representatives from 8 Members/States, including Azerbaijan, Armenia, Georgia, Kazakhstan, Lithuania, Moldova, the Russian Federation and Ukraine, as team members, as well as from the international and national organizations, such as WMO, ICAO, Austro Control, IRAM, RSHU, and, in addition, other aeronautical meteorological experts participated in the joint meeting. Totally, the meeting was attended by 35 experts.

special focus of WG-4 was paid to the following areas that need to be continuously reviewed:

- Aviation safety through improved QMS;
- Control of AMP competency assessment in the Members linked to quality standards;
- Capacity building for Doppler radar network in aeronautical meteorological services.

The Meteorology Divisional Meeting (2014) (MET/14) was held in part conjointly with the Fifteenth Session of the Commission for Aeronautical Meteorology (CAeM-15) of the WMO at the Headquarters of the International Civil Aviation Organization (ICAO) in Montreal from 7 to 18 July 2014.

It is worth saying that the WG-4/PT/EAST activities were streamlined by the WMO Strategic and Operating Plans and the ICAO *Global Air Navigation Plan (GANP)*.



OUTCOMES OF THE ICAO METEOROLOGY DIVISIONAL MEETING 2014

- IMPROVING THE SAFETY AND EFFICIENCY OF INTERNATIONAL AIR
- NAVIGATION THROUGH ENHANCED METEOROLOGICAL SERVICE PROVISION
- INTEGRATING METEOROLOGICAL INFORMATION EXCHANGE DEVELOPMENTS INTO THE FUTURE SYSTEM WIDE INFORMATION MANAGEMENT ENVIRONMENT
- INSTITUTIONAL ISSUES
- STANDARDS, RECOMMENDED PRACTICES AND PROCEDURES

GANP/ASBU implementation in the CIS And PT/EAST countries

- The WG-4 and PT/EAST recognized the need to align aeronautical meteorological practices available in NMHSs and AMSps with ICAO/WMO International Standards, WMO Strategic and Operating Plan, ICAO Global Air Navigation Plan and to foster regional cooperation in the interests of CIS countries. It was decided to develop a joint Implementation Plan for the CIS countries to meet the requirements for enhanced MET service delivery from the GANP/ASBU strategies

PT/EAST WG-4 meetings

- Following the first 3 meetings in 2012/2014, there have been 1 meeting in 2015 in Sochi
- It should be noted that Early meetings were focused on main development trends and challenges in aeronautical meteorology and sharing information with participants on their work-orientation
- More recent meeting in 2015 has focused on system-wide topics, including to achieve the main trends from ICAO WMO meetings

The conjoint meeting in Sochi 2015

The fourth conjoint meeting of two groups in Sochi was a good evidence that The CIS Interstate Council for Hydrometeorology Working Group – 4 – *Meteorological Services for Civil Aviation (CIS ICH WG-4)* and PT/EAST sets an example of sub regional cooperation and collaboration.

The balanced approach to service delivery in the CIS countries was underpinned by the long-standing practice, harmonizing the process of making observations, generating forecasts, exchanging meteorological information, maintaining data banks, verifying aviation forecasts, developing quality management systems, liaising with aviation users, certifying meteorological tools and equipment, etc.



Sochi 2015

- The meeting focused on the main subjects: implementation of Aviation System Block Upgrade (ASBU) module zero for MET (current MET provisions). In particular, meeting IATA TAF requirements noting the need to have 24-hour TAF at many aerodromes of States present to support crosspolar routes, providing information on the format of SIGMET and distribution in accordance to EUR Doc 018, emphasizing the need for WMO AHL for special air-reports where applicable, obtaining an update on the implementation of the state of the runway as per Annex 3, and addressing other METG items such as completing the survey on English Language Proficiency for MET Service Providers in the EUR Region

The main outcomes and results from the meeting and activities for the period 2015-2016 :

- Monitoring of deficiencies of meteorological service of the international air navigation in national practicing of the countries participants from provisions of the Appendix 3 ICAO
- Performance of work on carrying out of competence assessment of the aviameteorological personnel (CA AMP) according to the VMO standards
- Preparation of proposals on coordination of activity of mutual cooperation in providing information to aviation users in the emergency situations connected with the dangerous heliogeophysical phenomena (within creation of the Global and Regional center of space weather of SWXC (Space weather center))
- Preparation of proposals on coordination of positions of the working groups on development of a network of Doppler meteorological radars, on creation of a uniform network and general radar field of the adjacent states
- Studying and preparation for introduction of the ISO 9001:2015 standards
- Preparation of workshop for PT/EAST and WG-4 member States on “Oversight of Met Provision “

Since 2012 the WG-4 together with ICAO METG PT/EAST have been made visible progress in the following issues:

- International education and training standards in meteorology for aeronautical meteorological personal ;
- Development of new technologies in support of aeronautical meteorological services;
- Implementation of WMO/ICAO Standards and Recommended Practices in aeronautical meteorological services;
- Implementation of AMP competence assessment;
- Actions towards an improved quality management system, incorporating safety management system elements;
- Actions towards the improved regional exchange of MET information, including terminal and flight forecasts, SIGMET, AIRMET and GAMET
- To Exchange SIGMET information between adjacent States

International Workshop-Training Oversight of Flight Safety Management System in Meteorological Respect St-Petersburg, Russian Federation 29–30 September 2015

- Based on working plan and members need with kind support of ICAO EUR NAT office and WMO International workshop was conducted in St-Petersburg , hosted by North-West Branch of “Aviamettelecom of Roshydromet”
- More than 40 WG-3 and PT/EAST states experts , as well ICAO, WMO, Austrocontrol representatives were attended the meeting.
- The goal was to increase awareness of safety related persons of Flight Safety Management System in Meteorological Respect

Conclusion

MET information plays an important role in the safety and regularity of international air navigation. As the community transitions from today's air traffic controlled environment to tomorrow's air traffic managed environment, there is a need to ensure that MET service provision can fulfil existing and future ATM needs and expectations. MET information will be an integral component of the future globally interoperable system-wide information management (SWIM)-enabled environment, alongside other information services such as aeronautical information and flight and flow information.

Goal of sub Regional Coordination

- Meteorology in support of air traffic management
- Coordination with the World Meteorological Organization (WMO) and other international institutions
- Assistance to CIS and PT/EAST States
- facilitates implementation of quality systems for MET
- facilitates monitoring and rectification of air navigation deficiencies in the field of MET
- Provide sub regional guidance material based on survey, questionnaires e.c.
- special implementation projects for Eastern part of region
- Further strengthen cooperation and coordination among each other at the regional level
- providing oversight, support and quality assurance to operational activities

Conclusion

- We understand that sub regional initiatives in the field of aeronautical meteorology (MET) contributing to the **safety** and **efficiency** of international air navigation
- The benefits from the WG-4/PT/EAST activities in the CIS area will evolve over time to meet the needs in a coordinated effort to facilitate participation in implementing the WMO Strategic and Operating Plan and ICAO Global Air Navigation Plan.

Thanks!