

INTERNATIONAL CIVIL AVIATION ORGANIZATION

Meeting of the Ist APIRG Infrastructure and Information Management Sub-Group (IIM/SG) (Nairobi, Kenya, 27 to 30 June 2017)

PROJECT: MET Project -2

DOMAIN: IIM

(Infrastructure & Information Management)

AFI REGION	PROJECT DESCRIPTION	REFERENCE IIMSG / Area of Routing # All		
Sub-domain	Title of the Project	Start	End	
Aeronautical Meteorology (MET) (ICAO Facilitator: WACAF/ESAF ROS/MET	TA-WRNGs/WAFS/AMBEX: Implementation of Terminal Area Warnings and Forecasts, Provision of WAFS Forecasts and Optimization of OPMET data exchanges in the AFI Region MET Project -2 Project-Team Coordinator: xxxx MET Project -2 Project Team Experts (9): xxxx, xxxx, xxxx	Month/ Year	Month/ Year	
Objectives	 Assist States in the implementation of: a) Aerodrome warnings and forecasts (AD WRNG) and wind shear of WRNG) in accordance with ICAO Annex 3, Tables A6-2 and A6-3, consumer issuance and distribution at the terminal area, of concise information of which could adversely affect aircraft on the ground, including parked a facilities and services. For aerodromes where wind shear is considered a shear warnings will give concise information on the observed or expected which could adversely affect aircraft on the approach path or take-off approach between runway level and 500 m above that level and during the landing roll or take-off run. Where local topography has significant wind shears at heights in excess of 500 m above runway level considered restrictive. b) the world area forecast system (WAFS) in the standards and recommended Part V – MET of the AFI ANP Volumes I, II and III with regard to the which the world area forecast centre (WAFC), London provides aeronaroute forecasts in uniform standardized formats and disseminated in the Secure Aviation Data Service (SADIS). States will be also assisted in International Airways Volcano Watch (IAVW) including the implement procedures in ICAO Doc 9766 and the AFI Volcanic Ash Contingency Plates and the AFI Meteorological Bulletin Exchange (AMBEX) Handbook in accordated ICAO Annexes 3 and 10 and AFI ANP Volumes I, II and III part preparation, issuance, distribution and monitoring of OPMET informations. 	oncerning the meteorological ircraft, and the major safety ed existence of path or du aircraft on as been showned, then 500 nd dispractices of use of WAFS autical meteorie AFI region the implementation of the an (VACP) ac RODBs) descence with the V- Meteorol	Annex 3 and products, by rological entrough the nation of the experimental tivities; ribed in the provisions in ogy, for the	

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	a) The terminal area warnings part of the project will comprise all AFI I aerodromes listed in Table MET II-2 of the AFI ANP Volume II and affected by wind shear events;					
Scope	dromes listed mn 7 of Tabl					
c) The AMBEX part of the project will include AFI aerodromes listed in Table MET AFI ANP including Dakar and Pretoria RODBS, Bulletin Compiling Centre National OPMET Centres (NOCs), AFI volcanic ash advisory centre (VAAC) in tropical cyclone advisory centre (TCAC) in La Reunion and WAFC in London.						
	a) Terminal area warnings metric: Number of international aerodromes Table MET II-1, with Aerodrome warnings and wind shear implement 2017					
Metrics	b) WAFS and IAVW metrics: Number of MET Provider States listed in II-2, with SADIS 2G/secure SADIS FTP implemented in December 2 MET Provider States listed in AFI ANP Table MET II-1 having volca procedures implemented in December 2016.	2016 – and - N	Number of			
	c) AMBEX metrics: Number of international aerodromes/MOs wi implemented in December 2015	th AMBEX	procedures			
Goals	Meteorological information supporting enhanced operational efficience	cy and safety				
Strategy	All tasks will be carried out by MET experts nominated by AFI States participating in the project, led by the Project-Team Coordinator and under the supervision of the B0-AMET PFF Project Facilitators (ROs/MET, Dakar and Nairobi) through the "GoTo' Meetingtool. Upon completion of the tasks, the results will be sent to the B0-AMET PFF Project Facilitators as a final document for submission to, and if necessary approval by the APIRG Projects Coordination Committee (APCC). For the purpose of collaborative decision-making, meetings will be held with the areas involved.					
	a) Terminal area warnings: The lack of implementation by a numerical number of information concerning weather phadversely affect aircraft on the ground, including parked aircraft facilities and services; and aircraft on the approach path or taking approach and their repercussions on the provision of air for tools to allow the personnel involved in the different air navigroperly use, and disseminate quality information related to such every constant.	enomena what, and the ake-off path navigation segation areas	aerodrome or during ervices call			
Justification	b) WAFS and IAVW: The introduction of the new gridded WAFS forecasts is an improvement to the WAFS in terms of improved accuracy, timely distribution, and usefulness of forecasts to facilitate airspace optimisation. The volcanic events with ash dispersion in the AFI Region and their repercussions on the provision of air navigation services call for tools to enable the personnel involved in the different air navigation areas to receive, properly use, and disseminate quality information related to such events.					
	c) AMBEX: the full implementation of the AMBEX scheme will inc quality OPMET in International aerodromes and also enable AFI S digital OPMET exchange in the future SWIM environment.		-			

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Sub-domain	Title of the Project	Start End					
	All APIRG projects specifically related to:						
	✓ Implementation of Improved Airport Operations through Airport-CDM (B0-ACDM)						
	I implementation of improved operations through Emilanced En-Route Trajectories (Do-						
Related projects							
	✓ Implementation of Improved Flexibility and Efficiency in Descent Profiles (CDO) (B0-CDO)						
	✓ Implementation of Improved Flexibility and Efficiency in Departure Profiles —Continuous Climb Operations (CCO) (B0-CCO)						

roject Deliverables	Relationship with the Regional Performance -Objectives (RPOs/PFFs) and ASBU Modules	КРІ	Responsible	Status of Implement	Date of Delivery	Comments
	Terminal A	rea Warni	ngs (AD WRNG & '	WS WRNG)		
Current level of implementation of facilities at aerodromes for monitoring hazardous meteorological conditions, assessed	AFI B0- AMET PFF-2		✓ AFI B0-AMET PFF Project Coordinators ✓ AFI B0-AMET-2 Project Team Leader		December 2016	
Report on Mission to States not compliant with terminal area warning facilities stipulated in Annex 3 and the AFI ANP, distributed	AFI B0- AMET PFF-2		✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-2 Project Team Leader		December 2017	
Detailed guidance provided to States not issuing terminal area warnings and forecasts	AFI B0- AMET PFF-2		✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-2 Project Team Leader		December 2017	
List of States implemented aerodrome warnings, wind shear warnings/alerts and water thickness measurement on the runway to support runway safety plans, distributed	AFI B0- AMET PFF-2		✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-2 Project Team Leader		December 2018	
WAFS and IAVW						
Training seminars in French and English on new WAFS gridded forecasts, conducted and related report placed on ICAO website	AFI B0- AMET PFF- 2		✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-2 Project Team Leader		December 2015	

¹ Grey Task not started yet

Green Activity being implemented as scheduled

Yellow Activity started with some delay, but will be implemented on time Red Activity not implemented on time; mitigation measures are required

roject Deliverables	Relationship with the Regional Performance -Objectives (RPOs/PFFs) and ASBU Modules	KPI	Responsible	Status of Implement	Date of Delivery	Comments
a) An updated list of States not receiving WAFS products and areas of constraints in implementing SADIS VSAT and FTP service, established; and Remedial action plans developed by concerned States	AFI B0- AMET PFF- 2		✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-2 Project Team Leader		a) 2015/ Annually b) December 2017	
b) Remedial action plans developed by concerned States						
a) An updated list of States with active volcanos not implementing IAVW (volcano observatories and VONA), established and	AFI B0- AMET PFF- 2		✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-2 Project Team Leader		a) 2015/An nually b) Decembe r 2016	
b) b) Remedial action plans developed by the concerned States						
Report of AFI volcanic ash contingency plan (AFI VACP) exercises distributed and placed on the ICAO website	AFI B0- AMET PFF- 2		✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-2 Project Team Leader		December 2015	
AMBEX						
a) A report on annual assessment of the availability and quality of OPMET data in the region, issued, distributed and placed on ICAO website and b) Remedial action	AFI B0- AMET PFF-2		✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET- 2 Project Team Leader		a) 2015/Annu ally b) December 2018	
plans developed by the concerned States						

roject Deliverables	Relationship with the Regional Performance -Objectives (RPOs/PFFs) and ASBU Modules	КРІ	Responsible	Status of Implement	Date of Delivery	Comments
Two seminars in French and English on the implementation of AMBEX procedures including RODBs, conducted and the report distributed	AFI B0- AMET PFF-2		✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET- 2 Project Team Leader		December 2016	
Resources needed	 ✓ Funds to conduct the meetings, missions and to translate reports, regional guides and manuals. Likewise, participants must be given facilities to participate in 'Go To' Meetings. ✓ Funds for meetings with project Team Members in order to assess the results and propose corrective actions. States could use their human resources to conduct the foreseen OPMET tests and monitoring, and, if necessary, cover the financial costs, since the experience gained will result in an improvement of their own systems. Likewise, participants must be given facilities to participate in GoToMeetings. 					

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