

DOMAIN : IIM (Infrastructure & Information Management)

MET PROJECT.3: Implementation of Annex3 provision relating to space weather requirements within the AFI Region

Coordinator: South Africa

AFI Region	Project Description					
Programme	Title of the Project	Start	End			
Aeronautical Meteorology	Implementation of Annex3 provision relating to space weather requirements within the AFI Region	2023	2024			
Project	MET Project 3 Team:					
Facilitators:	Project-Team Coordinator: South Africa					
ICAO Regional Officer, MET,	• Experts contributing to the Project 3					
Dakar & Nairobi						
Objective	Assist States in the implementation of: a) The requirement for the provision of a space weather information service to support international air navigation as part of ICAO's Global Air Navigation Plan (Doc 9750). ICAO amended Annex 3, Annex 15, PANS-ABC and PANS-ATM to include the provision of space weather information that is expected to affect the following areas: (communications, (ii) navigation and surveillance system and (iii)/or pose a radiation rist to flight crew members and passengers. This information should be provided for the evolution of such phenomena in time and space in accordance with ICAO DOC 10100 (Space weather manual) and Annex 3. b) to assist the states within the ICAO AFI region to meet the space weather information requirements in accordance with the ICAO Annex 3. c) Create awareness of the space weather information requirement within the aviation sect in the AFI region. d) Engage with the States to ensure government support for the provision of space weather for the safety of aircraft operations. e) Report on the implementation of project activities.					

	The Project will benefit all AFI States and interested Organizations and will cover the implementation of the following MET ASBU elements.
Scope	 AMET-B1/1 Meteorological observations Information (Space weather events) AMET-B1/2 Meteorological forecast and warning information (Space weather events) AMET-B1/3 Climatological and historical meteorological Information (Enhanced climatological data) AMET-B1/4 Dissemination of meteorological Information ((Space weather events)
	The progress of the Project will be monitored through the evaluation of the implementation status using the following metrics.
Metrics	 Metric 1: % of States with AMET-B1/1 related to space weather events implemented by December 2024
	 Metric 2: % of States with AMET-B1/2 related to space weather events implemented by December 2024
	 Metric 3: % of States with AMET-B1/3 related to space weather events implemented by December 2024
	 Metric 4: % of States with AMET-B1/4 related to space weather events implemented by December 2024
	• Coordination of the project: The coordination of the project will be carried out by the Project Team Coordinator State.
Strategy	• Implementation of the Project activities: Each member of the project team will be assigned specific task to be achieved as per the project wok plan.
	 Supporting experts: Project team members will be supported by State National Coordinator for planning and implementation (NCPI) and Sate technical Focal Point (TFP) in MET.
	• Facilitation: Project Facilitators (ROs/MET, Dakar and Nairobi.
	• Reporting on the project implementation : Project-Team Coordinator, upon completion of the tasks, the results will be sent to the Project Facilitators as a final document for submission to the IIM_SG, and approval by the APIRG Projects Coordination Committee (APCC).
	 a) The lack of implementation by many/ a significant number of AFI MWO Provider States, of information concerning en-route space weather phenomena which may affect the safety of aircraft operations.
Rationale	b) Personnel involved in the different air navigation areas to receive, properly use, and disseminate quality space weather information do not have appropriate training/qualification
	c) Low level of implementation of AMET-B1 applicable elements related to space weather in the region
	d) Need of alignment of the project's references with the groups, threads, elements of ASBU modules introduced by the 6 th edition of the GANP and applicable to the AFI region in MET area.
	a) More accurate and timely space weather information will optimize flight path planning and prediction, thus improving ATM safety and efficiency.

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Targets	Metric	Baseline (2022)	Milestone, 2023	Target, 2024	Comments	
	Metric 1	0%	30%	70%		
	Metric 2	0%	30%	70%		
	Metric 3	0%	30%	70%		
	Metric 4	0%	30%	70%		
Status at the End of Project	a) At least 70% of States with the provision of space weather information implemented.b) The reporting on the Project implementation is consistently achieved.					
Related projects	 All APIRG specifically projects related to: COMI-B0/7 - ATS Message Handling System (AMHS) COMI-B0/1 - Aircraft Communication Addressing and Reporting System (ACARS) ASUR-B0/3 - Cooperative Surveillance Radar Downlink of Aircraft Parameters (SSR-DAPS) DAIM-B1/1 - Provision of quality-assured aeronautical data and information DAIM-B1/2 - Provision of digital Aeronautical Information Publication (AIP) data sets 					

Activity #	Activity Name	Beneficiary States	Actors	Duration (in days)	Start	Finish
	Implementation of MET Project 3			670	2-Jan23	31-Dec24
1.1	Overall Coordination of the Project					
1.1.0	IIM/SG Quarterly PTCs' Coordination Meeting and quarterly report on the implementation of Project activities	AFI States	ChairSupported by Vice-Chair and PTCs	670	Q1 2023	Q4 2024
1.2	Status of implementation ASBU elements, Gaps analysis and development implementation Action Plan	AFI States		136	1-Apr23	15-Aug-23
1.2.1	Assess the status of implementation of the space weather requirements related to AMET-B1/1, AMET-B1/2, AMET-B1/3 and AMET-1/4	AFI States	 Project Team	29	1-Apr23	30-Apr23
1.2.2	Perform the ASBU gaps analysis and establish priorities	AFI States	Project Team Expert (PTE)MET TFP	30	1-May-23	31-May-23
1.2.3	Produce the report of the ASBU gaps analysis	AFI States	• PTC • PTEs	14	1-June-23	15-June-23
1.2.4	Develop Action Plan for prioritized States that need assistance to address the deficiencies identified upon the gaps analysis	Prioritized States	State (With the support of PTEs)	30	15-June-23	15-Jul23
1.2.5	Review and approve Action Plan to guide its implementation by State with support of PTEs	Prioritized States	PTC	30	16-Jul23	15-Aug-23

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1.3	Monitoring the and assist State in the Implementation of State Action Plan			504	15-Aug-23	31-Dec24
1.3.1	Task PTEs to assist prioritized beneficiary States as needed through workshops, trainings, guidance material, operational procedures, infrastructure, etc.,	Prioritized States	PTC	16	15-Aug-23	31-Aug-23
1.3.2	Provide assistance to States as needed through workshops, trainings, development of guidance material, operational procedures, infrastructure, regulatory documents, etc.	Prioritized States	Tasked PTEs	487	1-Sep23	31-Dec24
1.3.3	Coordinate the assistance activities conducted by PTEs	Prioritized States	PTC	487	1-Sep23	31-Dec24
	Provide monthly report to the PTC on the implementation of the activities of assistance to States	States assisted	PTEs	487	1-Sep23	31-Dec24
1.3.4	Provide quarterly and annual Report on the progress of the Project activities	States assisted	PTC	487	30-March23	31-Dec24
1.4	Project Exit Wrap up			30	1-Dec24	31-Dec24
1.4.1	Review the Project achievements and failures	Prioritized beneficiary States	PTC	30	1-Dec24	31-Dec24
1.4.2	Document the lessons learnt and formulate recommendations for improvement	Prioritized beneficiary States	PTC	30	1-Dec24	31-Dec24
1.4.3	Present the termination report to the IIM/SG	Prioritized beneficiary States	PTC	30	1-Dec24	31-Dec24