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ESAF Regional Aeronautical Meteorology Seminar

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Overview

Findings

Causes of Missing Aeronautical meteorological data

Results

Missing Aeronautical Meteorological data

Action by the meeting

Way foreword

Correction/mitigation

Actions to be put in place

NOC Analysis

AFI status

Conclusion

Findings

Notable causes

- Awareness
- Wrong address or omitted address
- Non use of collective address
- Corrupted text
- Wrong routing tables
- Link problems
- Anonymous routings that gives room to lack of ownership
- Lack of coordination between ANSPS and MET organizations when going for new technology
- Structural changes in the AFTN/AMHS operations in the region
- Lack of knowledge of ICAO standards and SARPS
- Closure of Aeronautical Communication office at ESAF which has compromised the implementation of standards
- Redundant routing table and routing directory
- Implementation of AWOS
- Lack of peer meetings in the region

Correction/mitigation

- Training on ICAO communications procedures
- The formation of a team of 6 people from the BCC, NOC and RODB to visit the regional states and audit their capacity in managing the OPMET data;
- The establishment of a procedure for the collection, monitoring and analysis of OPMET data exchange;
- Monthly data collection of missing data and diligence in treatment in coordination of NOCS, BCCS and RODBS centers and non-centers.

Results

1.The data for the period 2020 to May 2024 are shown in the table below:

	2020	2021	2022	2023	2024	Average
OPMET data processed	50,659	49,826	63,047	64,591	27,561	51,137
Expected OPMET data	132,860	132,860	132,860	132,860	132,860	132,860
Received	38.13%	37.50%	47.45%	48.62%	20.74%	38.49%
OPMET Not received	61.87%	62.50%	52.55%	51.38%	79.26%	61.51%

Results

2. The analysis by NOCs shows a major contribution by AFI centers to the occurrence of missing OPMET data for more than 50%

NOC	OPMET Data received				
	2020	2021	2022	2023	2024
HKJK	9,220	8,732	10,113	10,009	4,103
HKMO	8,332	6,171	9,016	9,838	3,915
HKEL	8,102	5,518	9,295	8,186	3,056
HKKI	1,099	3,809	6,131	5,840	2,920
HTDA	0	0	0	0	0
HTKJ	0	0	0	0	0
HTZA	0	0	0	0	0
HBBA	1,264	3,318	4,789	6,570	3,285
HRYR	9,221	9,009	9,983	10,200	4,097
HUEN	8,720	8,603	9,117	9,203	3,812
HCMM	4,701	4,666	4,603	4,745	2,373
HCMH	0	0	0	0	0
HSSJ	0	0	0	0	0
Total	50,659	49,826	63,047	64,591	27,561

ACTION BY THE MEETING

The meeting is invited to:

- Take note the information and efforts to reduce the OPMET data losses contained in this survey;
- Encourage different states in sensitization and training of relevant staff on the compliance with Communication procedures as prescribed in Annex 3 and annex 10 volume II;
- Encourage the establishment of a team to investigate the real causes of the missing data;
- Encourage regular exchange of missing OPMET data between states for investigations;
- Encourage collaboration between states for improving the availability of OPMET data within applicable timeframes.
- Advice ICAO on the need for the reestablishment of the Aeronautical communications office at ESAF separate from CNS to ensure ICAO standards are upheld as prescribed in Annex 10 volume II.

Conclusion

States in the AFI region have invested hugely in the field of obtaining Meteorological information both in training, capacity and equipment. However, if all these information does not reach the target audience within the right time and in the right context then all these investments are a waste. It is time to invest in the infrastructure for the Meteorological data exchange to meet the needs of the clients and aviation safety requirements. With the climate change, timely Aeronautical data exchange must be a priority

Thank You

