

INTERNATIONAL CIVIL AVIATION ORGANIZATION



AFI OPMET MANAGEMENT TASK FORCE

AFI REGIONAL SIGMET TESTS REPORT

November 2011

REPORT ON AFI SIGMET TESTS

November 2011

A - DATA EXCHANGE ANALYSIS

La reunion TCAC: TC advisory disseminated on 2 November 2011 at 11:27:00 UTC Instead of 0900 UTC. Two hours 27 minutes late.

Toulouse VAAC: VA advisory disseminated on 23 November 2011 at 09:56:00 UTC, 56 Minutes after the scheduled time for dissemination.

Dakar RODB:

- ✓ TC advisory received on 2 November 2011 at 11:59: UTC.
- ✓ VA advisory received on 23 November 2011 at 09:56:12 UTC
- ✓ No time frame estimated for WS advisory.
- ✓ WS SIGMET Tests issued by MWOs on their areas of responsibility

Pretoria RODB:

- ✓ TC advisory received on 02 November 2010 at 11:28:2024 UTC, 0minutes and 24 seconds after the dissemination time
- ✓ VA advisory received on 23 November 2011 at 09:56:17 UTC, 1 minutes and 30 seconds after the dissemination time
- ✓ WS advisory placed on the GIB website by Pretoria RODB on 30 November 2010
- ✓ No time frame estimated for WS advisory.
- ✓ WS SIGMET Tests issued by MWOs on their areas of responsibility.

1°) Issuance and Dissemination of WC SIGMET

- Only Three (3) out of expected Ten (10) MWOs (HHAS, FIMP and FAJS) issued WC SIGMET during the Test period.

2°) Issuance and Dissemination of WV SIGMET

- 24 MWOs out of 35 in the AFI region (68.5%) did not issue any WV SIGMET during the Test period
- Only two WV SIGMET from GMMC and DRRN were received on time
- 9 WV SIGMET Test were received late at the RODBs, more than 10 minutes after the advisory was issued by LFPW
- Two (2) SIGMET from GOOY and four (4) from DRRN were received at Dakar RODB at different times.
- SIGMETs from DNKN were received only at Dakar RODB and SIGMET from HUEN was received only at PRETORIA RODB

3°) Issuance and Dissemination of WS SIGMET

- 22 MWOs out of 35 in the AFI region (61%) did not issue any WS SIGMET during the Test period
- Thirteen (13) SIGMETs from FAJS, two (2) HHAA and three (3) SIGMET from DRRN were received at Pretoria RODB at different times.

B - SIGMET FORMAT ANALYSIS

1°) TC SIGMET

Asmara/ Eritrea:

- a) Meteorological part not based on the advisory
- b) The word “TEST” should be repeated 12 times” at the end of the SIGMET Test

Johannesburg/South Africa:

- a) Meteorological part not based on the advisory
- b) The word “TEST” should be repeated 12 times” at the end of the SIGMET Test

Antananarivo/Madagascar:

- a) Meteorological part not based on the advisory
- b) The word “TEST” should be repeated 12 times” at the end of the SIGMET Test

2°) VA SIGMET

Asmara/Eritrea (HHAS):

- c) Meteorological part not based on the advisory
- d) The word “TEST” should be repeated 12 times at the end of the SIGMET Test message

Kano/Nigeria (DNKN):

- a) Meteorological part not based on the advisory

Niamey/Niger (DRRN):

- a) Meteorological part not based on the advisory
- b) The word “TEST should be repeated 12 times at the end of the Test Message

Casablanca/Morocco (GMMC):

- a) Meteorological part not based on the advisory
- b) The word “TEST” should be repeated 12 times at the end of the SIGMET Test message

Dakar/Senegal (GOOY):

- a) Meteorological part not based on the advisory

Johannesburg/South Africa (FAJS):

No error

N’Djamena/Chad (FTTJ):

- a) The word “TEST” indicated immediately after the name of the FIR. VA then information on the volcano should have followed.

Sal/Cape Verde (GVAC) :

- a) The ICAO location indicator “GVAC” followed by an hyphen should be indicated immediately after the validity group in the first line of the SIGMET.

Brazzaville/Congo (FCBB):

- a) Priority “GG” used instead of “FF”

3°) WS SIGMET (following the weather phenomenon provided on the GIB website)

Antananarivo/Madagascar:

- a) No error

Asmara/Eritrea:

- a) “EMBD TS” reported instead of “HVY SS”
- b) The word “TEST” in bracket immediately after the weather phenomenon group should be excluded
- c) The word “TEST” should be repeated 12 times at the end of the SIGMET Test message.

Entebbe/Uganda:

- a) Validity should have been 300900/301200 and not 3009/301800
- b) The MWO group i.e HUEN should be indicated immediately after the validity group followed by hyphen
- c) Wrong Location, Level and Movement reported

Brazzaville/Congo:

- a) Priority indicator “GG” was used instead of “FF”.
- b) Weather phenomenon “EMBD TS” was reported instead of “FRQ TS”.
- c) Wrong Location, level and movement reported

Johannesburg/South Africa:

- a) No Error.

Kano/Nigeria:

- a) The weather phenomena “SEV ICE” was reported instead of “FRQ T”.
- b) Wrong Location, Level and movement reported.

Niamey/Niger:

- a) No weather phenomenon, location, level and movement reported
- b) The word “TEST” should be repeated 12 times at the end of the SIGMET test message

Maputo/Mozambique:

- a) Validity period given as 300900/231500 instead of 300900/301200
- b) The originating MWO i.e. FQMA followed by hyphen not indicated after validity group
- c) Weather phenomenon indicated as “EMBED TS” instead of “SEV MTW”

Mauritius/Mauritius:

- a) No weather phenomenon reported.

N’Djamena/Chad:

- a) No weather phenomenon reported. “HVY DS” should have been reported.
- b) Location, Level and Movement not reported

Dakar/Senegal:

- a) No weather phenomenon reported. “SQL TS” should be reported.
- b) Location, Level and Movement not reported

Sal/Cape Verde

The ICAO MWO location indicator should come immediately after the validity group

Morocco:

- a) No weather phenomenon indicated reported. “SEV TURB” should have been reported

Sal/Cape Verde:

- a) No Error

C – SUMMARY OF OPERATIONAL SHORTCOMINGS AND DEFICIENCIES IDENTIFIED

1	2	3
1	Operational Shortcomings and Deficiencies	VAAC, TCAC, RODBs or MWOs
1	24 MWOs out of 35 in the AFI region (68,5%) did not issue any WV SIGMET TEST during the Test period	ESAF (18): Luanda, Bujumbura, Gaborone, Addis Ababa, Nairobi, Lilongwe, Maputo, Windhoek, Kigali, Mahe, Mogadishu, Dar –Es-Salaam, Entebbe, Lusaka, Harare, Cairo,*Tripoli*,Khartoum, WACAF (6): Accra, Algeria, *,Gran Canarias*, Monrovia, Tunis*,Kinshasa,
2	22 MWOs out of 35 in the AFI region (61%) did not issue any WS SIGMET TEST during the Test period	ESAF (16):FNLU, Gaborone, Bujumbura, Cairo*, Addis Ababa, Nairobi Tripoli*,Lilongwe, Windhoek, Kigali, Mahe*, Mogadishu, Khartoum*, Dar –Es-Salaam, Lusaka, Harare,, Luanda, WACAF (6): Algiers*, Gran Canarias *,Kinshasa , Accra, Monrovia, Tunis*
3	9 MWOs out of 11 in the AFI region (82 %) did not issue any WC SIGMET TEST during the Test .	Antananarivo , Dar –Es-Salaam ,Gaborone, Harare , Lilongwe, Mahe , Maputo , Mauritius, Nairobi
4	The listed 18 MWOs (51%) have never issued any SIGMET TEST during AFI SIGMET Tests	ESAF (14): Luanda, Bujumbura, Cairo*, Addis Ababa, Nairobi, Tripoli*, Lilongwe, Windhoek, Kigali, Mahe*, Khartoum*, Dar –Es-Salaam, Lusaka, Harare WACAF (4): Algiers *, Gran Canarias*, Kinshasa, Monrovia,
5	2 MWOs did not use FF priority indicator to disseminate WS SIGMET.	Brazzaville, Mauritius
6	1 MWO did not use FF priority to disseminate WV SIGMET	Brazzaville
7	1 MWOs issued a WC SIGMET while it was not required	Asmara
8	1 TCAC issued advisory late, more than two hours after scheduled time	Re union
9	WC SIGMETs from 2 MWOs were received late at the RODBs, more than 10 mn after the advisory was issued by FMEE.	Johannesburg, Mauritius
10	WV SIGMETs from 9 MWOs were received late at the RODBs, more than 10 mn after the advisory was issued by LFPW	Kano, Niamey , Dakar , N'djamena, Sal, Brazzaville , Johannesburg ,Antananarivo , Mauritius
11	1 MWO issued WV SIGMET before advisory	Asmara
12	2 MWO issued WS SIGMETs with incorrect weather phenomena description or no weather phenomenon when there should have been	Asmara, Kano
9	5 MWO issued WS SIGMETs without weather phenomena	Casablanca, Dakar, N'djamena , Mauritius , Niamey
9	9 MWOs issued SIGMET test messages without including a line of 12 “TEST” at the end of the SIGMET message	Asmara Johannesburg Niamey Casablanca Sal Entebbe , Dakar, Mauritius Maputo
10	2 MWOs issued SIGMETs without including hyphen at the end of the line containing the validity period	Entebbe, Bamako
11	3 MWOs issued SIGMETs without including the MWO ICAO indicator just after the validity period	Maputo, Entebbe, Sal

HECA*: MWOs in the AFI region but not accredited to ESAF and WACAF

D – RECOMMENDATIONS

Recommendation 1: SIGMET Issuance and Dissemination

It is recommended that the Meteorological Watch Office (MWO) Provider States listed in column 3 and line 4 of the above Table of summary of operational shortcomings and deficiencies identified, that have never issued any SIGMET during AFI SIGMET Tests:

- a) take urgent step to establish arrangements between adjacent MWOs for the provision of SIGMET information as per paragraph 9 Part VI of AFI BASIC ANP (Doc 7474) under the assistance of ICAO Regional Office concerned; and
 - b) endeavor to address the identified deficiencies in the issuance and dissemination of SIGMET (APIRG/18, Conclusion 18/52); before removing the telecommunication/organizational deficiencies
- c)

Recommendation 2: Removing Operational Shortcomings

It is recommended that:

- a) Brazzaville and Mauritius use the priority indicator FF to disseminate SIGMETs;
- b) Kano , Niamey , , Dakar, N'djamena , Sal , , Brazzaville , Johannesburg , Antananarivo, Mauritius MWOs issue SIGMETs on the required time period, no more than 10 mn after the issuance of the advisories;
- c) Re union should issue advisory at the correct time.
- d) Asmara , Mauritius , Niamey , Maputo , Casablanca, Entebbe , Johannesburg MWO'S should include a line of 12 "TEST" at the end of the SIGMET test message
- e) All MWOs use the correct SIGMET format when preparing the SIGMET message by including:
 1. a correct weather phenomena description
 2. the ICAO indicator of the corresponding FIR at the beginning of the main text of the SIGMET
 3. a hyphen at the end of the line containing the validity period
 4. the MWO ICAO indicator just after the validity period