



SIERRA LEONE CIVIL AVIATION AUTHORITY

ADVISORY CIRCULAR

SLCAA-AC-ANS031-Rev. 00

EFFECTIVE DATE: 31st AUGUST 2021

Guidelines for the Development and Review of Meteorological Information

A handwritten signature in blue ink, appearing to read 'M. Ban', is positioned to the left of the official seal.



Director General

Sierra Leone Civil Aviation Authority

1. GENERAL

The Sierra Leone Civil Aviation Authority's Advisory Circulars contains information about standards, practices and procedures that the Authority has found to be an Acceptable Means of Compliance (AMC) with the associated Regulations.

An AMC is not intended to be the only means of compliance with a Regulation, and consideration will be given to other methods of compliance that may be presented to the Authority

Information considered directive in nature is described in this AC in terms such as "shall" and "must", indicating the actions are mandatory. Guidance information is described in terms such as "should" and "may" indicating the actions are desirable or permissive, but not mandatory

1.1 Purpose

This guidance provides instruction for the development and review of metrological information for Air Traffic Services (Aerodrome Control Tower, Approach Control Office, Area Control Centre and Flight Information Centre).

1.2 Applicability

This AC is applicable to Meteorological Service Providers.

1.3 Description of Changes

This AC is the first to be issued on this subject

1.4 References

- (a) SLCAR Part 3 - Aeronautical Meteorological Services
- (b) ICAO Annex 3 Aeronautical Meteorological services for international air navigation
- (c) ICAO Doc 8896 - Manual of Aeronautical meteorological practice

1.5 Cancelled Documents

Not Applicable

2. GUIDANCE AND PROCEDURES

2.1 General

2.1.1 Aerodrome control towers shall be equipped with surface wind display(s). The display(s) shall be related to the same location(s) of observation and be fed from the same sensor(s) as the corresponding display(s) in the meteorological station, where such a station exists.

2.1.2 Aerodrome control towers shall be supplied with information on wind shear which could adversely affect aircraft on the approach or take-off paths or during circling approach and aircraft on the runway during the landing roll or take-off run.

2.1.3 Flight information centres and area control centres shall be supplied with meteorological information.

- 2.1.4 Units providing approach control service, Flight information centres and area control centres shall be provided, at suitable intervals, with current pressure data for setting altimeters, for locations specified by the flight information centre or area control centre concerned.
- 2.1.5 Air traffic services units shall be supplied with up-to-date information on existing and forecast meteorological conditions as necessary for the performance of their respective functions. The information shall be supplied in such a form as to require a minimum of interpretation on the part of air traffic services personnel and with a frequency which satisfies the requirements of the air traffic services units concerned.
- 2.1.6 Units providing approach control service for final approach, landing and take-off shall be supplied with information on wind shear which could adversely affect aircraft on the approach or take-off paths or during circling approach.

2.2 Guidance

2.2.1 Information to be provided for Air Traffic Services Units

2.2.1.1 List of information for the Aerodrome Control Tower

Local routine and special reports, METAR and SPECI, TAF and trend forecasts and amendments thereto, for the aerodrome concerned;

Wind shear warnings and alerts and aerodrome warnings; any additional meteorological information, such as forecasts of surface wind for the determination of possible runway changes.

2.2.1.2 List of information for the Approach Control Unit

Local routine and special reports, METAR and SPECI, TAF and trend forecasts and amendments thereto, for the aerodrome(s) with which the approach control unit is concerned;

Wind shear warnings and alerts and appropriate special air-reports for the airspace with which the approach control unit is concerned and aerodrome warnings; any additional meteorological information agreed.

2.2.1.3 List of information for the Area Control Centre

- (a) METAR and SPECI, including current pressure data for aerodromes and other locations.
- (b) TAF and trend forecasts and amendments thereto, covering the flight information region or the control area.
- (c) forecasts of upper winds, upper-air temperatures and significant en-route weather phenomena and amendments thereto, particularly those which are likely to make operation under visual flight rules impracticable.
- (d) SIGMET and AIRMET information and appropriate special air-reports for the flight information region or control area.
- (e) any other meteorological information required by the flight information centre or area control centre to meet requests from aircraft in flight; information received on volcanic ash cloud; Information received concerning the release of radioactive material into the

atmosphere; and Information received on pre-eruption volcanic activity and/or a volcanic eruption.

2.2.1.4 List of information for the Flight Information Centre

Where necessary for flight information purposes, current meteorological reports and forecasts shall be supplied to designated aeronautical telecommunication stations. A copy of such information shall be forwarded, if required, to the flight information centre or the area control centre.