



27<sup>th</sup> November 2025

## ***TROPICAL STORM SENYAR AND ASSOCIATED AVIATION SAFETY RISKS***

### **1 Purpose**

- 1.1 The Safety Information (SI) aims to alert all operators, air traffic controllers, flight crew, and aerodrome operators of the increasing aviation safety risks associated with Tropical Storm Senyar, currently active over the Straits of Malacca. It reinforces the need for enhanced operational vigilance, accurate meteorological awareness, and precautionary safety measures.

### **2 Background**

- 2.1 The Malaysian Meteorological Department (METMalaysia) has issued a Tropical Storm Warning for Senyar, detected at latitude 3.6°N and longitude 99.9°E, approximately 102 km southwest of Lumut, Perak. The storm is moving east-southeast across the Straits of Malacca towards the western coast of Peninsular Malaysia at a speed of approximately 24 km/h.
- 2.2 Such a phenomenon is uncommon in Malaysia due to its equatorial position and is expected to generate continuous heavy rainfall, strong winds, and rough sea conditions affecting western and central regions of Peninsular Malaysia from 27–29 November 2025.
- 2.3 Tropical storms present serious risks due to the combination of extreme wind shear, convective activity, intense precipitation, lightning, rapidly shifting pressure systems, and reduced visibility. These conditions can compromise flight safety during all phases of flight, particularly during take-off, approach, and landing.

### **3 Potential Threats to Aviation Safety**

#### **3.1 Turbulence and Wind Shear**

- a) Strong wind gradients and unpredictable directional shifts can result in moderate to severe turbulence.
- b) Microburst events pose critical risks during take-off and landing.

#### **3.2 Reduced Visibility and Instrument Reliance**

- a) Heavy precipitation and cloud cover reduce visibility, requiring reliance on IFR procedures.



**3.3 Flooding at Aerodromes**

- a) Flooded runways, taxiways, and aprons impede ground operations and pose FOD risks.

**3.4 Electrical Storm Hazards**

- a) Lighting poses risks to aircraft systems, aerodrome infrastructure, ground personnel, especially during refueling operations.

**3.5 Communication and Navigation Disruptions**

- a) Severe weather may affect communication and navigation system performance.

**3.6 Disruption to Airport Operations**

- a) Potential disruptions to ground handling, refuelling, passenger movements, and ramp safety due to adverse conditions.

**4 Recommended Actions**

**4.1 All aircraft operators, air traffic controllers, and aerodrome operators are reminded to:**

- a) Flight Crew and Operators
  - 1) Monitor SIGMET and AIRMET updates.
  - 2) Conduct pre-flight weather risk assessments and plan alternate routes.
  - 3) Ensure compliance with turbulence penetration speeds.
  - 4) Coordinate with dispatch for real-time updates.
  - 5) Brief cabin crew and passengers accordingly.
- b) Air Traffic Controllers
  - 1) Provide timely dissemination of METAR, SIGMET, SPECI, and wind reports.
  - 2) Alert aircraft of observed or reported severe weather.
  - 3) Ensure proper sequencing due to weather-related variations.
  - 4) Coordinate closely with adjacent ATC units for diversion and reroute management.
- c) Aerodrome Operators
  - 1) Monitor for water accumulation on movement areas.
  - 2) Issue NOTAMs for closures when conditions require.
  - 3) Suspend ground handling and refuelling during lightning events.



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- 4) Ensure drainage systems, emergency response teams, and backup power systems are fully operational.
- d) General Safety Measures
  - 1) Encourage cockpit and cabin communication to prevent injuries.
  - 2) Report weather-related occurrences via CAAM's CARES system (MOR/VOR).
- e) Stakeholder Coordination
  - 1) Maintain continuous coordination with METMalaysia, CAAM, and airport authorities to ensure unified situational awareness.

## 5 Conclusion

- 5.1 The Civil Aviation Authority of Malaysia (CAAM) urges all aviation stakeholders to remain vigilant and prioritise safety throughout the duration of this rare tropical storm event. Continuous monitoring of METMalaysia advisories and adherence to CAAM guidance remain critical to safeguarding operational continuity and aviation safety.

For further updates, please refer to:

- a) METMalaysia official website: [www.met.gov.my](http://www.met.gov.my).
- b) CAAM official communications channels.



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