

**Contact**

## Post:

REPUBLIC OF SINGAPORE  
AERONAUTICAL  
INFORMATION SERVICES  
CIVIL AVIATION AUTHORITY  
OF SINGAPORE  
SINGAPORE CHANGI  
AIRPORT  
P.O. BOX 1, SINGAPORE  
918141

Tel: (65) 6422 7036

AFS: WSSSYNYX

Fax: (65) 64410221

Email: [caas\\_singaporeais@caas.gov.sg](mailto:caas_singaporeais@caas.gov.sg)URL: [www.caas.gov.sg](http://www.caas.gov.sg)URL: <https://aim-sg.caas.gov.sg>**AIP Supplement for  
Singapore****AIP SUP****086/2021****Effective from 01 AUG 2021****/ 01 AUG 2022****Published on 01 JUL 2021****SINGAPORE CHANGI AIRPORT – RELEASE OF WEATHER BALLOON WITH  
DUAL RADIOSONDES****1 INTRODUCTION**

1.1 This AIP Supplement is to inform airline operators and pilots of a weather balloon launch with dual radiosondes with effect from 01 August 2021 0000UTC to 01 August 2022 0000UTC.

**2 CURRENT DAILY WEATHER BALLOON RELEASE**

2.1 Balloons attached with single radiosonde are routinely released for MET observations at the Centre for Climate Research Operations, Upper Air Observatory (012025N 1035317E) twice daily at 2330UTC and 1040UTC as depicted in the following Singapore AIP pages.

- a. ENR 5.3 Section 1 - OTHER ACTIVITIES OF A DANGEROUS NATURE;
- b. ENR 3.6-7/Area Chart - LOW LEVEL HOLDING AREAS, Flip-side, Special Note 1(I) and (II); and
- c. ENR 3.6-9/Area Chart - HIGH LEVEL HOLDING AREAS, Flip-side, Special Note 1(I) and (II).

**3 TWICE-MONTHLY DUAL RADIOSONDE OPERATION**

3.1 With effect from 01 August 2021 0000UTC, there will be a launch with dual radiosondes two times per month for a period of one year to meet WMO requirement for radiosonde calibration.

3.2 Details of the balloon launch with dual-sonde are listed below and a graphic of dual-sonde setup is shown in Annex A.

Frequency of the release: two times per month

Week of the release: on the 2<sup>nd</sup> and 4<sup>th</sup> week

Timing of the release: at 2330UTC (with cut-off timings at 0030UTC).

Note: This launch replaces the normal single-sonde launch on the same day/time.

Rate of ascent of balloon: 320m per minute.

Maximum height of balloon: 115 000ft (35 000m).

Colour of balloon: uncoloured.

Diameter of balloon: 162m.

The balloon is attached with 2 radiosondes (connected with a rod)

Weight of radiosonde-1: 80g.

Size of radiosonde-1: 155 x 63 x 46 mm.

Weight of radionsonde-2: 40g.

Size of radiosonde-2: 131 x 55 x 53 mm.

Payload (radiosondes and connecting rod): 150g.

---

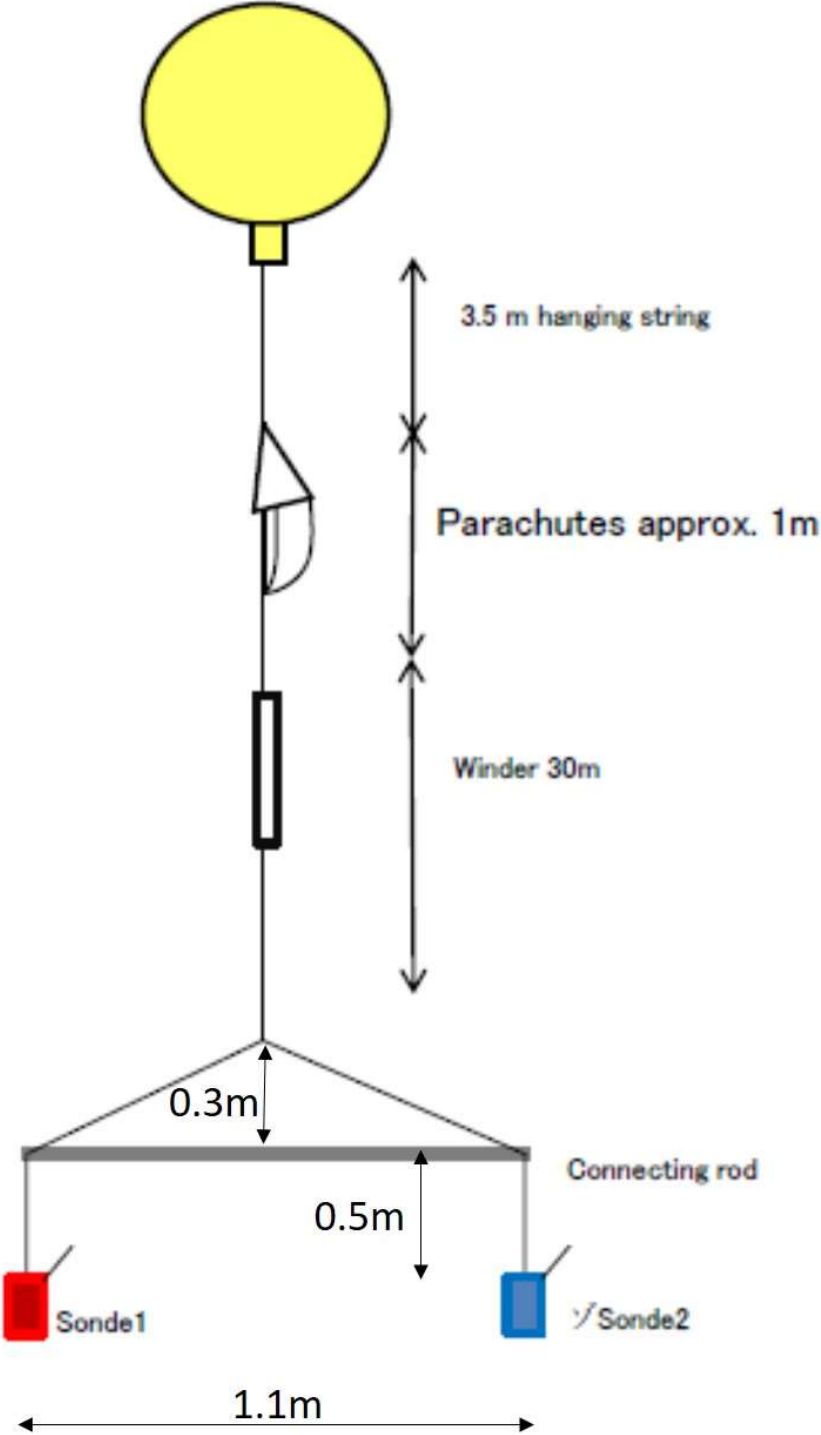
## 4 CONCLUSION

4.1 Any change to the contents of this AIP Supplement will be notified through NOTAM.

Dual-sonde Setup ..... [Annex A](#)

Dual-sonde Setup

With winder



*PAGE INTENTIONALLY LEFT BLANK*