

ENR

WEATHER BALLOON LAUNCH
IN FREE RISE OF THE UNIVERSITY OF COSTA RICA
MEASUREMENT OZONE, WATER VAPOR AND OTHER ATMOSPHERIC VARIABLES

The Civil Aviation Authority informs that effective from **March 20 to May 30, 2024**, precaution is recommended for launching a balloon with a meteorological probe in free ascent, with a center at the coordinates 09°56'22"N 084°02'33"W (GasLab from CICANUM, University of Costa Rica, San Pedro), within a radius of 5 NM, from the surface to unlimited above mean sea level. Once the launch of the balloon has been coordinated with the AIJS Radar Control personnel, the ascent and descent trajectory, as well as the estimated landing coordinates will be reported directly to the AIJS Radar Control personnel. Control Radar AIJS will provide this information upon request. The launch of the balloon is subject to air traffic conditions.

| LAUNCHING DATE | UTC HOUR |
|---------------------------|-------------|
| Wednesday, March 20, 2024 | 1100 - 1700 |
| Tuesday, April 16, 2024 | |
| Thursday, April 25, 2024 | |
| Friday, May 17, 2024 | |
| Thursday, May 30, 2024 | |

Other details are provided in the following tables:

Instruments detail:

Balloon diameter: 2 m (aprox.)
Balloon weight: 1.200 g
Balloon color: Light beige
Radiosonde weight: 1.200 g
Radiosonde dimensions: 38 cm x 19 cm x 26 cm
Length cable supporting the load: 60 m
Float Gas used: Industrial Helium
Total length of equipment deployed: 62 m

Balloon and Sonde Flight Parameters

| | |
|----------------------------|-----------------------|
| Ascent speed: | From 590 to 1,300 FPM |
| Descent speed: | From 980 to 4,000 FPM |
| Average maximum height: | 108.000" (33 km) AMSL |
| Maximum registered height: | 131.200" (40 km) AMSL |