

HOT AIR BALLOON WEATHER BRIEFING

UTM 32N 731687E 4801745N

Coordinates: 43.3328°N, 11.8579°E | Elevation: 262 m ASL | Forecast period: Tue 29 Sept 07:00-09:00 GMT+2 | Model: Best match (automatic)

Launch window daylight, thermal activity and surface wind combined Tue 29 Sept · limits: wind 4/6 m/s, gust 8 m/s

07	08	09	10	11	12	13	14	15	16	17	18
----	----	----	----	----	----	----	----	----	----	----	----

Within limits Caution Beyond limits

- Sunrise / sunset**07:07 / 18:59 GMT+2 — the span shown above
- Civil twilight**Begins 06:39, ends 19:27 GMT+2. Outside the strip, but flyable under some rule sets.
- Thermal activity**Rises above 0.8 m/s from about 11:00 and eases after 18:00; peak 1.9 m/s at 14:00.
- Longest window within limits**07:00-11:00 (4 h)

Window classification combines civil twilight, Thermalmap thermal activity and model surface wind against the limits set below. It is planning guidance, not an authorization.

Synoptic situation

Model guidance for the local grid point indicates that mostly clear to clear sky conditions are favoured, with no meaningful hourly precipitation modelled. The 10 m wind changes from E (80°) to S (180°), a 100° directional shift. Mean sea-level pressure rises by 0.6 hPa across the period.

Hourly surface forecast (GMT+2)

Parameter	07:00	08:00	09:00
Air / dew point [°C]	11.4 / 8.9	11.6 / 8.2	14.5 / 9.7
MSL pressure [hPa]	1025	1025	1025
Weather / precip [mm]	Mostly clear / 0.0	Clear sky / 0.0	Clear sky / 0.0
Clouds [total; L/M/H %]	0; 0/0/0	0; 0/0/0	0; 0/0/0
Wind from [°]	80 E	69 E	180 S
Speed / gust [m/s]	1.1 / 1.8	0.8 / 1.9	0.1 / 1.8
Visibility [km]	21.2	31.1	30.2

Conditions

- Surface wind**1.1-1.1 m/s from E; gusts to 1.9 m/s
- Cloud cover**Mostly clear; peak total cloud cover 0%.
- Solar heating**Limited potential (peak model radiation 177 W/m²). This is not a thermal forecast.
- Freezing level**3840 m above sea level (minimum in period).
- Convection**No meaningful CAPE signal in the selected model period.

- **Morning window closes near 11:00.** Thermal activity crosses 0.8 m/s around then; expect increasing low-level turbulence, less predictable vertical control and firmer landings after that point.
- **Evening window opens after about 18:00,** when activity drops back below the same threshold and the surface layer begins to decouple.
- **Mixed layer reaches about 5184 ft AGL** at its deepest. Flight inside that depth is in mixed, gusty air; above it the flow is usually smoother and more steady in direction.
- Peak activity 1.9 m/s near 14:00 local.
- These timings come from a boundary-layer estimate, not from observed thermals, so treat the onset and decay hours as approximate and confirm against what you see on the field.

Derived from Open-Meteo boundary-layer height and solar radiation because Thermalmap guidance could not be loaded. Thermal strength here is the convective velocity scale w^* , a physical estimate of updraught strength rather than an observed climb rate — use it for timing and depth, not for exact numbers.

Parameter	07 05Z	08 06Z	09 07Z	10 08Z	11 09Z	12 10Z	13 11Z	14 12Z	15 13Z	16 14Z	17 15Z	18 16Z	19 17Z	20 18Z
Thermal strength [m/s]	0.0	0.2	0.4	0.7	1.1	1.4	1.7	1.9	1.9	1.8	1.6	0.4	0.2	0.0
Mixed-layer depth [ft AGL]	49	66	148	558	1329	2280	3445	4757	5036	5184	5020	148	148	640
Cloud, low [/8]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cloud, mid [/8]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cloud, high [/8]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wind 10 m, from [°]	80	69	180	241	239	252	297	309	319	318	331	355	56	70
Wind 10 m [m/s]	1.1	0.8	0.1	1.0	0.6	0.3	0.5	0.6	0.9	1.2	1.3	1.1	1.8	2.0
Temp / dew point [°C]	11/9	12/8	15/10	19/11	21/12	23/11	25/11	26/11	27/10	27/9	27/8	26/8	23/11	21/13

Thermal strength and working height describe the depth and vigour of the convective mixed layer. For a balloon this is a turbulence and control indicator, not a climb forecast. Data from [Thermal Information Map](#) (OGN data under ODbL, non-commercial use only).

Steering assessment

- Steering spread

88° between 1000 ft and 5000 ft. Good directional control available.
- Surface layer

260° W at 1.1 m/s
- Top of profile

5000 ft: 180° S at 2.5 m/s
- Speed shear

1.4 m/s across the profile.

Steering spread is the largest track difference between any two usable layers in the profile. Larger spread means more directional control.

Nearby airport observations latest METAR

Airport	Observed (UTC)	Temp / Td	Wind from	Visibility	Clouds	QNH	Raw METAR
Perugia/Egidio Arpt, PG, IT LIRZ · 59 km SE (116°)	30 Sept 02:20Z	14 / 13 °C	20° N / 6 kt (3.1 m/s)	6+	CLR	1024 hPa	METAR LIRZ 300220Z AUTO 02006KT 9999 NCD 14/13 Q1024
Florence/Peretola Arpt, FI, IT LIRQ · 75 km NW (315°)	30 Sept 02:20Z	14 / 13 °C	Not reported	6+	CAVOK	1024 hPa	METAR LIRQ 300220Z VRB02KT CAVOK 14/13 Q1024
Rimini/Miramare Arpt, RN, IT LIPR · 98 km NE (38°)	30 Sept 02:20Z	14 / 13 °C	230° SW / 2 kt (1.0 m/s)	6+	CLR	1024 hPa	METAR LIPR 300220Z AUTO 23002KT 9999 NCD 14/13 Q1024
Cervia, RV, IT LIPC · 105 km N (20°)	30 Sept 02:00Z	14 / 14 °C	270° W / 3 kt (1.5 m/s)	4.97	CLR	1025 hPa	METAR LIPC 300155Z 27003KT 8000 NSC 14/14 Q1025

Airport observations are useful local checks, but their elevation and exposure can differ substantially from the launch field.

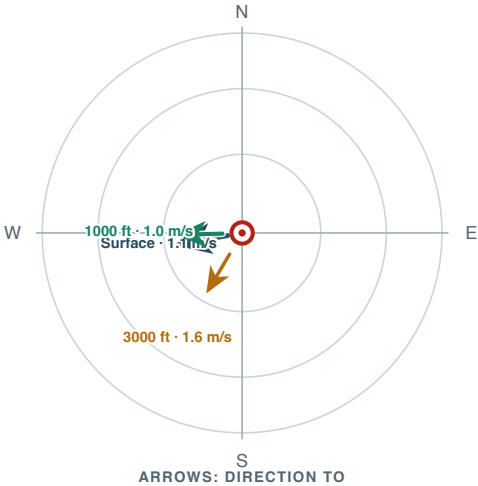
Wind profile direction to (navigational), speed m/s

Tue 29 Sept 07:00 GMT+2

Directions shown as **DIRECTION TO** — navigational, the way the balloon travels.

Height AGL	Level	Dir to	Speed
Surface	Surface	260° W	1.1 m/s
250 ft	interpolated	262° W	1.1 m/s
500 ft	975 hPa	264° W	1.0 m/s
750 ft	interpolated	266° W	1.0 m/s
1000 ft	interpolated	268° W	1.0 m/s
1500 ft	interpolated	259° W	1.2 m/s
2000 ft	925 hPa	248° W	1.6 m/s
2500 ft	interpolated	228° SW	1.5 m/s
3000 ft	interpolated	211° SW	1.6 m/s

Wind summary — selected time



Arrows point toward the projected travel direction. Altitude is above ground level.

Generated 30 Sept 2026, 06:41. Forecast run and source-model availability can change between requests.

Data: Open-Meteo Forecast API and Open-Meteo geocoding / GeoNames; nearby airport observations are decoded METAR reports from AviationWeather.gov; thermal and stability guidance from [Thermal Information Map](#) (thermalmap.info), derived from OGN data under the Open Data Commons ODbL and used non-commercially. Forecast data is guidance only; verify official aviation weather, NOTAMs, local observations, and event rules before flight.