

CLA 1, Italian HAB Open Championship 2026

Coordinates: 43.3341°N, 11.8581°E | Elevation: 261 m ASL | Forecast period: Wed 30 Sept 18:00-20:00 GMT+2 | Model: Best match (automatic)

Launch window daylight, thermal activity and surface wind combined Wed 30 Sept · limits: wind 4/6 m/s, gust 8 m/s

07	08	09	10	11	12	13	14	15	16	17	18
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Within limits Caution Beyond limits

- Sunrise / sunset**07:08 / 18:57 GMT+2 — the span shown above
- Civil twilight**Begins 06:40, ends 19:25 GMT+2. Outside the strip, but flyable under some rule sets.
- Thermal activity**Rises above 0.8 m/s from about 10:00 and eases after 18:00; peak 1.9 m/s at 14:00.
- Longest window within limits**07:00-10:00 (3 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 clear sky to partly cloudy conditions are favoured, with no meaningful hourly precipitation modelled. The 10 m wind changes from N (360°) to E (86°), a 86° directional shift. Mean sea-level pressure rises by 1.1 hPa across the period.

Hourly surface forecast (GMT+2)

Parameter	18:00	19:00	20:00
Air / dew point [°C]	25.9 / 11.3	23.7 / 11.7	20.7 / 11.3
MSL pressure [hPa]	1025	1025	1025
Weather / precip [mm]	Clear sky / 0.0	Partly cloudy / 0.0	Partly cloudy / 0.0
Clouds [total; L/M/H %]	0; 0/0/0	48; 1/48/0	52; 1/52/0
Wind from [°]	360 N	34 NE	86 E
Speed / gust [m/s]	1.4 / 3.4	1.1 / 2.7	1.3 / 1.9
Visibility [km]	43.3	42.3	41.5

Conditions

- Surface wind**1.4-1.4 m/s from N; gusts to 3.4 m/s
- Cloud cover**Broken cloud; peak total cloud cover 52%.
- Solar heating**Limited potential (peak model radiation 189 W/m²). This is not a thermal forecast.
- Freezing level**3730 m above sea level (minimum in period).
- Convection**No meaningful CAPE signal in the selected model period.

- **Morning window closes near 10:00.** 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 5266 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	0.8	1.2	1.5	1.8	1.9	1.9	1.7	1.4	0.4	0.2	0.0
Mixed-layer depth [ft AGL]	49	82	180	656	1575	2575	3839	4888	5266	4347	3593	197	82	98
Cloud, low [/8]	1	1	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	4	4
Cloud, high [/8]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wind 10 m, from [°]	60	59	252	252	225	217	248	286	319	337	350	360	34	86
Wind 10 m [m/s]	0.8	0.6	0.3	0.9	0.6	0.5	0.5	0.7	1.1	1.5	1.7	1.4	1.1	1.3
Temp / dew point [°C]	12/12	13/12	15/13	18/13	21/13	23/13	25/12	26/11	27/10	27/10	27/11	26/11	24/12	21/11

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).

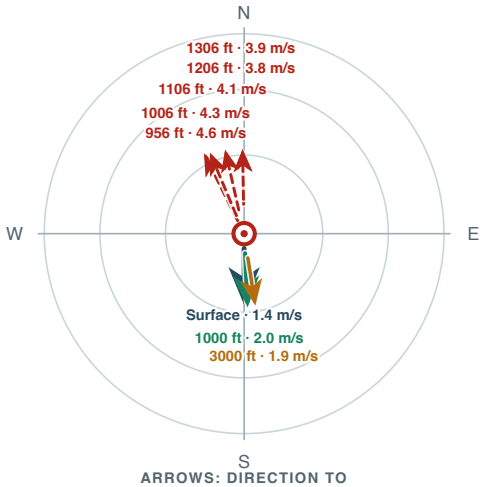
Nearby airport observations latest METAR							
Airport	Observed (UTC)	Temp / Td	Wind from	Visibility	Clouds	QNH	Raw METAR
Perugia/Egidio Arpt, PG, IT LIRZ · 59 km SE (116°)	30 Sept 13:20Z	28 / 11 °C	Not reported	6+	CLR	1023 hPa	METAR LIRZ 301320Z AUTO VRB02KT 9999 NCD 28/11 Q1023
Florence/Peretola Arpt, FI, IT LIRQ · 75 km NW (315°)	30 Sept 13:20Z	29 / 11 °C	Not reported	6+	FEW	1022 hPa	METAR LIRQ 301320Z VRB02KT 9999 FEW040 29/11 Q1022
Grosseto, GR, IT LIRS · 90 km SW (225°)	30 Sept 13:00Z	26 / 23 °C	220° SW / 9 kt (4.6 m/s)	6+	FEW	1023 hPa	METAR LIRS 301255Z 22009KT 9999 FEW025 26/23 Q1023
Forli/Ridolfi Arpt, FC, IT LIPK · 97 km N (10°)	30 Sept 13:00Z	26 / 15 °C	60° NE / 7 kt (3.6 m/s)	6+	CAVOK	1024 hPa	METAR LIPK 301250Z 06007KT CAVOK 26/15 Q1024

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

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

Height AGL	Forecast		Measured		Δ dir
	Dir to	Speed	Dir to	Speed	
Surface	180° S	1.4 m/s	—	—	—
250 ft	179° S	1.6 m/s	—	—	—
500 ft	178° S	1.8 m/s	—	—	—
750 ft	178° S	1.9 m/s	—	—	—
1000 ft	177° S	2.0 m/s	337° NW	4.3 m/s	160°
1500 ft	176° S	2.0 m/s	348° N	4.0 m/s	172°
2000 ft	174° S	2.0 m/s	354° N	3.7 m/s	180°
2500 ft	173° S	2.0 m/s	334° NW	3.5 m/s	160°
3000 ft	171° S	1.9 m/s	356° N	3.8 m/s	175°

Wind summary — selected time



Solid arrows are forecast, dashed red arrows are your measurements. Arrows point toward the projected travel direction; altitude is above ground level.

AGL	14:34	change
1000 ft	337° NW 4.3	—
1500 ft	348° N 4.0	—
2000 ft	354° N 3.7	—
3000 ft	356° N 3.8	—
4000 ft	349° N 4.8	—
5000 ft	340° N 6.6	—

No consistent turn across the column. Change is measured between the first and last ascent shown, as the shortest turn — so 350° to 010° reads as +20°, not −340°.

Height AGL	AGL	AMSL	Dir to	Speed
956 ft	291 m	741 m	333° NW	4.6 m/s
1006 ft	307 m	757 m	337° NW	4.3 m/s
1306 ft	398 m	848 m	359° N	3.9 m/s
1606 ft	490 m	940 m	352° N	4.2 m/s
2006 ft	611 m	1061 m	354° N	3.7 m/s
2306 ft	703 m	1153 m	1° N	4.1 m/s
2606 ft	794 m	1244 m	343° N	3.5 m/s
2906 ft	886 m	1336 m	358° N	4.1 m/s
3106 ft	947 m	1397 m	340° N	3.5 m/s

Limited to 3200 ft AGL. Showing one reading per 100 m — the measurement nearest each step, out of 23 recorded. Lowest and highest readings are always kept. AMSL heights use a site elevation of 450 m.

Generated 30 Sept 2026, 16:34. 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.