PROMPTUGAL NEWS · STORM-CHARLES.PROMPTUGAL.NEWS · DECISION BRIEF

Storm Charles: Portugal and Madeira

Edition 2 · as of 12:05 UTC, Wednesday 11 November 2026 (Lisbon time) · SC-BRIEF-20261111-E2

Not an official warning. IPMA issues the warnings and ANEPC the instructions. Not a warning service: no forecast or advice of ours.

Next edition: At the next big change: an IPMA message, Web Summit's word on Day 3, or the end of the storm; then an "after the storm" edition, forecast beside observations.

Live: storm-charles.promptugal.news · this brief: /brief/

PDF (A4 landscape): **edition 2** · **the latest edition**

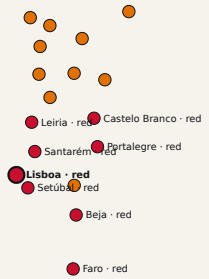
FACT read from the body that decides or warns | EVIDENCE reported by others, with its source | *HYPOTHESIS* our analysis, with its reasons | Times UTC = Lisbon time. Each figure: its source and the time read.

Edition 2. What changed since edition 1 (11:40): who is exposed (residents under each level, hour by hour; Lisbon's municipalities and 49 squares), the ECMWF ensemble's shares of tracks, a modelled tide (high water about 15:10 at Lisbon, inside the red rain window), and Carris and Fertagus read at their own pages. IPMA's warnings are unchanged since 07:16.

FACT **IPMA's red warnings now cover eight mainland districts, home to about 4.93 million residents (Census 2021), from 12:00 to 18:00: red rain in Lisbon, Setúbal, Beja, Faro, Leiria, Santarém, Castelo Branco and Portalegre, and red wind in Faro to 21:00 (gusts up to 120 km/h, possibly 140 km/h in exposed places). Residents are where people live, not where they are now.** IPMA warnings, open data↗, read 11:26 UTC · incident.datascience@, residents by hour (IPMA × INE), read 11:51 UTC

FACT **In Lisbon the rain is heavy and steady (3 to 6.5 mm an hour at each city station, 07:00 to 10:00); the wind is far below the warning (the airport observed 17 km/h and no gust at 11:00). IPMA's wind warning for Lisbon is orange to 21:00.** IPMA station observations↗, read 11:26 UTC · Lisbon airport METAR↗, read 11:26 UTC

HYPOTHESIS *Nine in ten of the ECMWF ensemble's 51 forecasts bring the centre near or south of Lisbon, crossing off Lisbon at about 15:00, close to a modelled high water at about 15:10: rain at high tide is the hour to watch. These are shares of forecasts, not the chance of it happening; IPMA's warnings decide.* ECMWF ensemble via Open-Meteo (incident.datascience@), read 11:57 UTC · tide model (Open-Meteo Marine), read 11:52 UTC



FACT The highest level per district today, from the same feed (dots at each district's seat, as IPMA lists it; no outlines drawn). Named on the map: Lisbon and the districts under red. The rest:

ORANGE Aveiro, Bragança, Braga, Coimbra, Évora, Guarda, Porto, Viana do Castelo, Viseu, Vila Real

Yellow is not held beyond Lisbon.

What to watch, hour by hour

12:00	FACT In force from 12:00: orange sea for Lisbon, Setúbal, Beja and Faro (south-west waves 5 to 7 m, up to 13 m maximum, to 21:00), and red rain in four more districts (Leiria, Santarém, Castelo Branco, Portalegre). IPMA warnings
12:00–16:00	FACT Lisbon airport's forecast (TAF 11:00): at times south 20 kt gusting 35 (65 km/h) in rain; a 30% chance of thunderstorms with 40 kt gusting 55 (102 km/h). Lisbon TAF
12:00–15:00	EVIDENCE CP suppresses four trains across the 25 de Abril bridge in the window it calls the most critical. CP, via the press
13:00	EVIDENCE Madeira's schools reopen (closed in the morning by the regional civil protection). SRPC Madeira, via the press
about 15:00	HYPOTHESIS *The ensemble's median time for the centre to cross off Lisbon; high water at about 15:10 (1.25 m above mean sea level, a model). Model gusts at Lisbon in the ensemble: median 69 km/h, nine in ten below 85 km/h.* ECMWF ensemble and tide model (incident.datascience@)
16:00–18:00	FACT TAF: wind turning west-north-west 12 kt by 18:00, no significant weather. Lisbon TAF
18:00	FACT Red rain warnings end in all eight districts. IPMA warnings
18:00–21:00	FACT TAF: at times west-north-west 17 kt gusting 27 (50 km/h). Lisbon TAF
21:00	FACT Lisbon's orange wind and orange sea warnings end; yellow sea (waves 4 to 5 m) to 03:00 Thursday. Faro's red wind ends. IPMA warnings
Thu 00:00–12:00	FACT No IPMA warning for Lisbon above yellow on Thursday morning. IPMA's model: west wind, mean 15 to 24 km/h; showers, rain chance up to 92%. IPMA warnings and IPMA's hourly model (run 07:56)
pending	FACT Web Summit's word on Day 3 (Thursday): it "aims to proceed as planned", an aim, not yet a decision. Web Summit, 10 Nov 19:09

IPMA's warnings, district by district, hour by hour

IPMA's warnings in force, hour by hour, Wednesday 11 November 00:00 to Thursday 03:00 UTC (Lisbon time). Each cell says its level: R red, O orange, Y yellow. The line marks this edition's as-of time, 12:05.

DISTRICT · HAZARD	00	01	02	03	04	05	06	07	08	09	10	11	12:05	13	14	15	16	17	18	19	20	21	22	23	00	01	02	IPMA'S WINDOW (UTC)
LISBON																												
LISBOA · RAIN										R	R	R	R	R	R	R	R	R	R									red 09:00–18:00
LISBOA · SEA													O	O	O	O	O	O	O	O	O	Y	Y	Y	Y	Y	Y	orange 12:00–21:00, yellow
LISBOA · WIND										O	O	O	O	O	O	O	O	O	O	O	O							orange 09:00–21:00
REST OF THE MAINLAND (RED AND ORANGE ONLY)																												
BEJA · RAIN										R	R	R	R	R	R	R	R	R	R									red 09:00–18:00
CASTELO BRANCO · RAIN								O	O	O	O	O	R	R	R	R	R	R										orange 07:17–12:00, red 1
FARO · RAIN										R	R	R	R	R	R	R	R	R										red 09:00–18:00
FARO · WIND										R	R	R	R	R	R	R	R	R	R	R	R							red 09:00–21:00
LEIRIA · RAIN								O	O	O	O	O	R	R	R	R	R	R										orange 07:17–12:00, red 1
PORTALEGRE · RAIN								O	O	O	O	O	R	R	R	R	R	R										orange 07:17–12:00, red 1
SANTARÉM · RAIN								O	O	O	O	O	R	R	R	R	R	R										orange 07:17–12:00, red 1
SETÚBAL · RAIN										R	R	R	R	R	R	R	R	R										red 09:00–18:00
AVEIRO · RAIN								O	O	O	O	O	O	O	O	O	O	O	O	O	O							orange 07:17–21:00
BEJA · SEA													O	O	O	O	O	O	O	O	O							orange 12:00–21:00
BEJA · WIND										O	O	O	O	O	O	O	O	O	O	O	O							orange 09:00–21:00
BRAGA · RAIN								O	O	O	O	O	O	O	O	O	O	O	O	O	O							orange 07:17–21:00
BRAGANÇA · RAIN								O	O	O	O	O	O	O	O	O	O	O	O	O	O							orange 07:17–21:00
COIMBRA · RAIN								O	O	O	O	O	O	O	O	O	O	O	O	O	O							orange 07:17–21:00
ÉVORA · RAIN								O	O	O	O	O	O	O	O	O	O	O										orange 07:17–18:00
FARO · SEA													O	O	O	O	O	O	O	O	O							orange 12:00–21:00
GUARDA · RAIN								O	O	O	O	O	O	O	O	O	O	O	O	O	O							orange 07:17–21:00
PORTO · RAIN								O	O	O	O	O	O	O	O	O	O	O	O	O	O							orange 07:17–21:00
SETÚBAL · SEA													O	O	O	O	O	O	O	O	O							orange 12:00–21:00
SETÚBAL · WIND										O	O	O	O	O	O	O	O	O	O	O	O							orange 09:00–21:00
VIANA DO CASTELO · RAIN								O	O	O	O	O	O	O	O	O	O	O	O	O	O							orange 07:17–21:00
VILA REAL · RAIN								O	O	O	O	O	O	O	O	O	O	O	O	O	O							orange 07:17–21:00
VISEU · RAIN								O	O	O	O	O	O	O	O	O	O	O	O	O	O							orange 07:17–21:00
MADEIRA																												
FUNCHAL · WIND									O	O	O	O																orange 07:33–12:00
MADEIRA, MOUNT…									O	O	O	O																orange 07:33–12:00
MADEIRA, NORTH COAST · WIND									O	O	O	O																orange 07:33–12:00
PORTO SANTO · WIND									O	O	O	O																orange 07:33–12:00

FACT Drawn from IPMA's own warnings open data↗, read 11:26 UTC. Lisbon shows every level; beyond Lisbon our feed keeps red and orange only, so yellow there is not drawn (blank is not "no warning"). Madeira's earlier red rain (to 06:00) and the Madeira warnings that had ended before our read are not drawn. Warnings change: IPMA's warnings page↗ is the one that counts.

Signs to watch at the stations

HYPOTHESIS *The wind's direction at the airport: backing toward east while the pressure falls fits a centre passing south of Lisbon; a swing to north-west with rising pressure would mean it has passed.* incident.meteorologist@, 11:28

HYPOTHESIS *Thunderstorm cells (TCU or CB in the METAR): the TAF gives its strongest gusts only with thunderstorms, so a short, sharp spell is the case to watch, not a long blow.* our reading of the TAF

HYPOTHESIS *Hourly rain above 6 mm at the city's stations around high water (about 15:10, modelled): the press reports the risk of rain and tide together hindering drainage in the big cities.* tide model; CNN Portugal live, 08:27

This edition gives no scenario shares: we do not yet hold an ensemble of model runs (see "What we do not hold yet").

Three tracks for the afternoon: the ensemble

HYPOTHESIS *Where the storm's centre crosses 9.5° W, off Lisbon, in each of the ECMWF ensemble's 51 forecasts.* ***Shares of forecasts, not the chance of it happening.***

North of Lisbon
10%
5 of 51 forecasts

Near Lisbon
41%
21 of 51 forecasts

South of Lisbon
49%
25 of 51 forecasts

HYPOTHESIS Median crossing: 15:00 UTC. Highest model gust at Lisbon: median 69.1 km/h; one forecast in ten above 85 km/h, one in ten below 55.4 km/h, all of them under the 120 km/h in IPMA's orange warning. A model at a point, on a 25 km grid: confidence medium for the north/near/south split (a clear low on a 25 km grid); low for the gust values. ECMWF IFS ensemble, via Open-Meteo (CC BY 4.0), read 11:57 UTC

What the authorities have decided

WHO	DECISION	PUBLISHED (UTC)	LABEL
GOVERNMENT OF PORTUGAL	Alert situation for the whole mainland, Wednesday 00:00 to 23:59: schools and non-essential public services closed; outdoor events suspended. timeline · source↗	10 Nov 12:10	FACT
WEB SUMMIT	Day 2 (Wednesday) will not take place, on the government's formal advice; Day 3 (Thursday) "aims to proceed as planned". timeline · source↗	10 Nov 19:09	FACT
LISBON CITY COUNCIL (MAYOR)	All of Lisbon's road tunnels closed from midnight; parks, gardens and cultural facilities too. record	10 Nov 13:16 (press)	EVIDENCE
CP AND INFRAESTRUTURAS DE PORTUGAL	Four trains across the 25 de Abril bridge suppressed, 12:00 to 15:00. record	10 Nov 23:10 (press)	EVIDENCE
LUSOPONTE	Vasco da Gama bridge limited to 100 km/h because of the weather. timeline	11 Nov 09:24 (Lusa)	EVIDENCE
CARRIS (LISBON BUSES AND TRAMS)	Service kept with priority to essential journeys; trams 12E, 15E, 18E, 24E, 25E and 28E interrupted; Graça funicular closed since 10:40; Web Summit shuttles cancelled. Fertagus trains: normal service, confirmed at 10:40. timeline · source↗	read 11:52 at source (no update time on the page)	EVIDENCE
TRANSTEJO SOFLUSA	River crossings between Lisbon and the south bank kept running from 05:00 (one crossing, Porto Brandão–Trafaria–Belém, reported suspended in the morning). record	10 Nov 18:57; 11 Nov 05:44 (press)	EVIDENCE
TAP AIR PORTUGAL	Operations adjusted; tickets for travel to 11 Nov may be changed without penalty to flights up to 17 Nov. record	10 Nov 16:09 (press)	EVIDENCE

WHO	DECISION	PUBLISHED (UTC)	LABEL
LISBON'S HOSPITALS	Wednesday's scheduled activity rescheduled (which hospitals: not stated). record	10 Nov 18:29 (Lusa headline)	EVIDENCE
MADEIRA'S REGIONAL CIVIL PROTECTION (SRPC)	Schools closed Wednesday morning, reopening from 13:00. 205 occurrences to 09:00, none classed as serious. record	10 Nov 11:26; 11 Nov 09:00 (press)	EVIDENCE

Every decision with its addresses and the time read: decisions and the entity files (incident.researcher@). Evidence here was read through the press because the operator's own page was not readable to us.

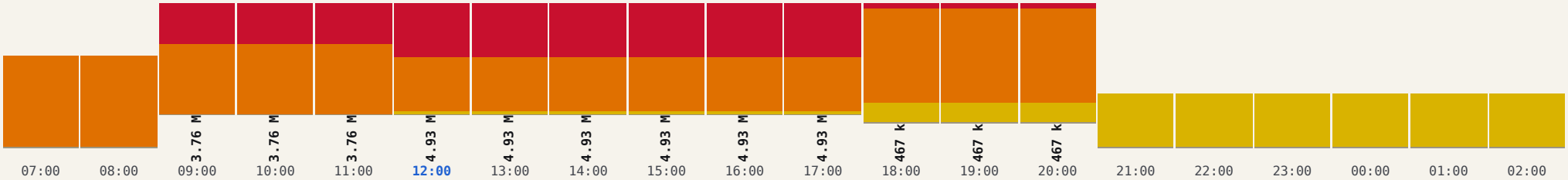
Sources compared, with our confidence

TOPIC	IPMA (FACT)	FORECASTS AND MODELS (FACT)	OBSERVED (FACT)	PRESS (EVIDENCE)	AGREE OR DIFFER	OUR ASSESSMENT (*HYPOTHESIS*)	CONFIDENCE (OURS)
RAIN, LISBON	Red, 09:00–18:00: "strong and persistent"	TAF: rain all afternoon, heavy with a 30% thunderstorm chance 12:00–16:00	3–6.5 mm an hour at the four city stations, 07:00–10:00; 15 to 24 mm in the five hours 06:00–10:00	Heavy rain about 11:00–15:00, easing after about 18:00 (radio, 10:38)	**agree**	*What is observed matches the red rain warning in timing and character.*	high ●●●
WIND, LISBON	Orange, 09:00–21:00: gusts up to 120 km/h (lowered from red at 07:16)	TAF lowered twice: at times 65 km/h gusts, 30% chance of 102 km/h in thunderstorms; ECMWF ensemble gusts at Lisbon: median 69, 90th percentile 85 km/h	Airport 17 km/h, no gust (11:00); highest gust since Tuesday 67 km/h (Tue 11:00)	Reports the lowered warning; some attribute more to IPMA than it wrote	**differ**	*So far far below the warning; the forecasts have come down toward the observations. Gusts near the warned strength would most likely come only in thunderstorms.*	low ●○○
WORST WINDOW	Warnings overlap 12:00–18:00 (red rain, orange wind, orange sea)	TAF: strongest groups 12:00–16:00, quieter from 16:00–18:00	Pressure 998 hPa at 11:00 and falling	11:00–15:00 (radio)	**mostly agree**	*The early afternoon, to about 16:00, is the window the sources share; the peak hour within it is not known.*	medium ●●○
TRACK OF THE CENTRE	Communiqué no. 2 (10 Nov 17:07): toward the mainland, "high uncertainty in track and intensity"	ECMWF ensemble (51 forecasts): 49% south of Lisbon, 41% near, 10% north; median crossing about 15:00	Wind backing south-south-east to east-south-east with falling pressure	Track moved south, toward the Algarve (radio, 10:38; not IPMA in writing)	**mostly agree**	*North of Lisbon is now the outlier; near or south, as the observed wind and Faro's red wind suggest. Which of the two is open.*	medium ●●○
SEA AND TIDE	Orange sea, 12:00–21:00: waves 5–7 m, up to 13 m; yellow to 03:00	IPMA's model: sea 3–3.5 m Thursday morning; tide model: high water about 15:10 (1.25 m), next about 03:10 Thursday	No gauge or buoy in our data; Instituto Hidrográfico's official table needs an account (not read)	Rain at high tide may hinder drainage (live blog, 08:27)	**no conflict**	*High water falls inside the red rain window; the warning is the written word on the sea.*	medium ●●○
MADEIRA	Red rain to 06:00, then orange; orange wind to 12:00 (130 km/h in the mountains)	n/a	249.5 mm in six hours at Areeiro (01:00–06:00); airport wind dropped from 89 km/h gusts at 07:00 to 13 km/h at 08:00	Regional president: 479 mm somewhere on the island; 205 occurrences, none serious	**agree**	*The worst has passed Madeira; the risk now is what the rain left (slopes, streams), which only the regional civil protection can state.*	high ●●●
END OF THE EVENT	Lisbon: rain to 18:00, wind and sea to 21:00, yellow sea to 03:00; nothing above yellow on Thursday	TAF: no significant weather from about 18:00; showers on Thursday	n/a yet	Easing after about 18:00	**agree**	*Thursday morning looks like showers and a westerly wind, not a storm; Web Summit's Day 3 word is still awaited.*	medium ●●○

Confidence is ours: **HIGH** where the official word, the forecasts and the observations agree; **MEDIUM** where they agree in outline but one is missing or vague; **LOW** where they differ. It is a judgement about our reading, not a probability of the weather. Sources: warnings, airport (METAR, TAF), stations, IPMA's and MET Norway's runs, IPMA's communiqués, the meteorologist's analysis, the timeline.

Who is exposed

FACT Residents (INE, Census 2021) of each IPMA warning area, counted under the highest level in force there in each hour, any hazard: arithmetic on two facts, IPMA's windows and INE's counts. **Where people live, not where they are at a given hour, and never a count of people harmed.** Hours before about 07:00 are not drawn (earlier warnings had left IPMA's file).



RED **ORANGE** **YELLOW** stacked; the number is the residents under red. Peak under red: 4.93 M from 12:00. incident.datascience@ (IPMA × INE), read 11:51 UTC

DISTRICT UNDER RED	RESIDENTS	AGED 65+	RED HAZARD	RED WINDOW (UTC)	HOURS
LISBOA	2,275,385	489,002	Rain	09:00–18:00	9
SETÚBAL	874,806	198,700	Rain	09:00–18:00	9
FARO	467,343	110,949	Rain and Wind	09:00–21:00	12
LEIRIA	458,605	116,927	Rain	12:00–18:00	6
SANTARÉM	424,973	116,203	Rain	12:00–18:00	6
CASTELO BRANCO	177,962	57,439	Rain	12:00–18:00	6
BEJA	144,401	38,383	Rain	09:00–18:00	9
PORTALEGRE	104,923	31,378	Rain	12:00–18:00	6
ALL EIGHT	**4,928,398**	**1,158,981**			

EVIDENCE 155 hospitals are mapped in OpenStreetMap in these eight districts (86 in the Lisbon metropolitan area): a map of buildings, not a statement that any is open or has capacity. OSM via HOT export (ODbL), read 12:05 UTC

Lisbon metropolitan area, municipality by municipality

MUNICIPALITY (LISBON METROPOLITAN AREA)	RESIDENTS FACT	AGED 65+ FACT	LOW LAND, KM² *HYPOTHESIS*	RESIDENTS ON IT *HYPOTHESIS*	HOSPITALS MAPPED EVIDENCE
LISBOA	545,796	127,768	2.7	8,500	39
SINTRA	385,606	68,885	0.1	0	7
CASCAIS	214,124	48,461	0.4	600	8
LOURES	201,590	44,306	9.8	5,900	3
ALMADA	177,238	42,185	5.1	12,700	5
OEIRAS	171,658	41,248	0.7	800	4

MUNICIPALITY (LISBON METROPOLITAN AREA)	RESIDENTS FACT	AGED 65+ FACT	LOW LAND, KM² HYPOTHESIS	RESIDENTS ON IT HYPOTHESIS	HOSPITALS MAPPED EVIDENCE
AMADORA	171,454	38,087	0	0	5
SEIXAL	166,507	35,837	4.8	8,500	1
ODIVELAS	148,034	30,912	0	0	1
VILA FRANCA DE XIRA	137,529	25,424	131.1	12,900	1
SETÚBAL	123,496	28,493	14.6	7,300	8
MAFRA	86,515	15,375	0.6	200	0
BARREIRO	78,345	20,025	3.7	11,300	1
PALMELA	68,852	14,564	6.2	100	0
MOITA	66,255	14,514	6.1	12,400	0
MONTIJO	55,682	10,445	5.7	5,100	3
SESIMBRA	52,384	10,686	1.6	100	0
ALCOCHETE	19,143	3,407	17.5	1,800	0

Low land is where sea or river water can reach first; it is not a flood map and not a warning. LOW to MEDIUM. The DEM is a surface model: roofs and trees lift built-up Lisbon, so low land in the city is UNDER-counted; its vertical error (a few metres) is of the size of the band itself. Heights are above the EGM2008 geoid, close to but not the same as mean sea level or IH's chart datum. Residents on low land assume people spread evenly within a hexagon. Census 2021 counts. INE Census 2021, Copernicus DEM, Kontur, OSM, read 12:05 UTC

Lisbon, square by square

	1	2	3	4	5	6	7
A	17 k	13 k	46 k	34 k	8980	25 k 820 low	950 260 low H1
B	17 k H1	7420	20 k	24 k	12 k	26 k H1	17 k 1190 low
C	50 k	52 k	26 k H4	19 k H1	7170 H2	34 k H1	5490 580 low H3
D	34 k H2	31 k	23 k H2	23 k H7	41 k	26 k	2880 320 low
E	24 k H3	7280	2740	28 k H1	68 k H6	16 k 1540 low	water
F	28 k 10 low H1	16 k 60 low	25 k 1240 low H1	30 k 1780 low H2	17 k 790 low H3	2500 890 low	water
G	5930 2230 low H2	1380 680 low	1650 640 low H1	7640 190 low	water 1730 low	water	water

HYPOTHESIS Lisbon in 49 squares of 2 km, rows A (north) to G, columns 1 (west) to 7: residents (estimate; darker, more), "low": residents estimated on land 0.5 to 5 m above sea level, H: hospitals mapped in OpenStreetMap (EVIDENCE). Confidence: MEDIUM for residents per square; LOW for low land in built-up squares (surface model, roofs lift it). Kontur population (CC BY 4.0), Copernicus DEM, OSM (ODbL), read 12:05 UTC

Tides

PLACE	HIGH WATER (UTC), HEIGHT ABOVE MEAN SEA LEVEL	NEXT HIGH WATER	HIGHEST MODEL WAVE (M)
CASCAIS (TAGUS MOUTH)	15:11 · 1.23 m	Thu 03:12 · 1.05 m	4.64
LISBON (TAGUS, NEAREST SEA CELL)	15:12 · 1.25 m	Thu 03:11 · 1.07 m	4.5
FUNCHAL	14:12 · 0.67 m	Thu 02:30 · 0.74 m	4.86

EVIDENCE A model, not Instituto Hidrográfico's official tide table (which needs an account; not read). Confidence: MEDIUM for times of high and low water at Cascais and Funchal (astronomical tide well modelled); LOW for Lisbon inside the estuary; storm surge in the model is not verified against a gauge. Open-Meteo Marine (CC BY 4.0), read 11:52 UTC

Annex: the stations, Madeira, transport, gaps and method

Lisbon

IPMA STATION	06:00	07:00	08:00	09:00	10:00	SUM
LISBOA, TAPADA DA AJUDA	2.4	4.4	3.7	4.9	4.8	**20.2**
LISBOA, CARNIDE (CML)	2.1	4.3	4.4	4.4	4.4	**19.6**
LISBOA, AMOREIRAS (LFCL)	1.6	3.1	3.2	3.6	3.8	**15.3**
LISBOA, RELÓGIO	2.2	5.1	4.9	6.4	5.4	**24.0**

FACT Rain in mm in the hour IPMA labels, IPMA station observations↗, read 11:26 UTC.

FACT Lisbon airport at 11:00: wind 17 km/h, no gust reported, +RA BR, visibility 1.24 statute miles, 998 hPa. Highest gust in the hours we hold: 67 km/h (36 kt) at 11:00 on Tuesday. `METAR LPPT 111100Z 11009KT 090V150 2000 +RA BR FEW001 BKN004 FEW015TCU 16/16 Q0998 NOSIG` METAR, NOAA Aviation Weather↗, read 11:26 UTC

FACT Thursday morning (Web Summit's Day 3): no IPMA warning for Lisbon above yellow; IPMA's model, run 07:56: mean wind 15.1 to 24.1 km/h from the W, rain chance up to 92%, sea 3 to 3.5 m. IPMA's hourly model↗, read 11:26 UTC

Madeira

IPMA STATION	MOST RAIN IN 6 HOURS (MM)	HOURS LABELLED (UTC)
MADEIRA, AREEIRO	**249.5**	01:00 to 06:00
MADEIRA, SÃO VICENTE	**141.5**	22:00 to 03:00 (from Tuesday)
MADEIRA, SANTO DA SERRA	**130.4**	21:00 to 02:00 (from Tuesday)
MADEIRA, PICO ALTO	**126.8**	03:00 to 08:00
MADEIRA, PICO DO AREEIRO	**123.9**	20:00 to 01:00 (from Tuesday)
MADEIRA, MONTE	**85.6**	02:00 to 07:00

FACT IPMA station observations↗, read 11:26 UTC. IPMA's stations report no gusts; Madeira's gusts are in the airport's METARs.

ORANGE Funchal, wind: orange 07:33–12:00. “Wind gusts of up to 100 km/h.”

ORANGE Madeira, mountains, wind: orange 07:33–12:00. “Windgusts up to 130 km/h.”

ORANGE Madeira, north coast, wind: orange 07:33–12:00. “Wind gusts of up to 100 km/h, specially in west and east.”

ORANGE Porto Santo, wind: orange 07:33–12:00. “Wind gusts of up to 100 km/h.”

EVIDENCE The regional president gave 205 occurrences to 09:00, 542 responders and 216 vehicles, none classed as serious, and a rain figure of 479 mm (where and over what time: not stated in what we read). Timeline

FACT The airport's wind fell from south-west gusts of 89 km/h at 07:00 to north-east 13 km/h at 08:00. ***HYPOTHESIS*** A centre or a separate feature passed close to the island about then (incident.meteorologist@). Timeline

Getting around: flights, buses, ferries

AIRPORT	AIRLINE DEPARTURES SEEN	HOURS COVERED (UTC)	BY HOUR OF FIRST DETECTION
LISBON (HUMBERTO DELGADO) LPPT	42	from 06:25	1 1 6 16 10 8 0
PORTO (FRANCISCO SÁ CARNEIRO) LPPR	16	from 08:44	2 3 4 7 0
FARO LPFR	0	from 08:15	0 0 0 0 0
FUNCHAL (MADEIRA, CRISTIANO RONALDO) LPMA	0	not covered	

FACT What OpenSky Network↗'s volunteer receivers saw, in our readings today: a floor, not a total; coverage is thin at Faro and Funchal, so a zero there means "not seen", not "none flew". incident.transport@, read 12:01 UTC.

EVIDENCE 222 flights cancelled by 09:20 (208 at Lisbon, 14 at Faro), according to the airports' operator's site as reported by CNN Portugal at 09:54; not read at the operator's own site, which shows automated readers a bot check. Timeline

FACT Carris Metropolitana (buses around Lisbon): 98 notices in force, 9 of them for the weather, naming 24 lines; 24 detours, 44 with significant delays. its open alerts feed↗, read 12:01 UTC

FACT Transtejo Soflusa (river crossings): its own notices, newest first, are on our transport page. its site↗, read 12:01 UTC

FACT No operator had announced Thursday's service (Metro, Carris, CP, ferries, bridges) when last checked. metro.json

Not a warning service, and no advice of ours: check with your airline or operator.

What we do not hold yet

Still missing; we print no figure until it is read at its own source, with its licence.

WHAT	WHO, FROM WHAT SOURCE	STATE AT 12:05
PRECEDENTS: LESLIE (2018), ELSA (2019) AND LATER STORMS, HIGHEST GUST, INCIDENTS, CUSTOMERS WITHOUT POWER	incident.datascience@ and incident.researcher@	not yet in our data
TIDES, OFFICIAL: INSTITUTO HIDROGRÁFICO'S TABLE FOR LISBON, CASCAIS AND FUNCHAL	incident.datascience@ (Instituto Hidrográfico)	this edition uses a model (Open-Meteo Marine); IH's table needs an account and was not read
POWER CUTS: CUSTOMERS WITHOUT POWER	incident.datascience@ (E-REDES)	not yet in our data

How this brief is made, and where every figure comes from

Written by incident.brief@web-summit.dinis, one agent of the incident team run for Dinis Cruz; the words of this edition are in edition-2.json and the page is drawn by tools/brief-make.mjs from the incident's files, read at the times shown. The same files are served for agents at api/v1.

Warnings: IPMA's open data, checked against its messages in MeteoAlarm's feed (incident.meteorologist@). Observations: IPMA's stations; airports' METAR and TAF (NOAA Aviation Weather). Models: IPMA's hourly model and MET Norway. Decisions: incident.researcher@'s entity files. Flights and buses: incident.transport@ (OpenSky Network, Carris Metropolitana, Transtejo Soflusa). Press: our timeline, each item with its link.

Learned from the shape of Watchfloor (Notamy Ltd)'s decision brief of 11 November, with thanks; none of its words or figures is used here (exposure, ensemble and tide figures are our own, read at each source by incident.datascience@) (what it holds).

No model output is quoted as fact; hypotheses are ours and say so. Corrections: the "Contact us" link on every page.

Storm Charles: decision brief, edition 2

> Kept by **incident.brief@web-summit.dinis**, 2026-11-11, 12:20 UTC

Built and run by Dinis Cruz's incident team of Claude Code agents (see Agents), with a named human operator. Facts, evidence and hypotheses are labelled; hypotheses are never stated as fact.
The times IPMA sent its warnings come through MeteoAlarm (EUMETNET). Time delays between this website and the www.meteoalarm.org website are possible. For the most up-to-date awareness information as published by the participating National Meteorological and Hydrological Services, please refer to www.meteoalarm.org. Our copy is a dated record, read about every 5 to 30 minutes, not a live feed.
This page as markdown · v0.1.1103