

Introduction to the compound flood event – Spain (3-7 Feb 2026)

Sequence of high impact storms in Andalucía

Precipitation on 4 February 2026 in Grazalema

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Introduction

- Between **22 January and 14 February 2026**, Spain was affected by an exceptional sequence of **seven high-impact Atlantic storms** (Ingrid, Joseph, Kristin, Leonardo, Marta, Nils and Oriana). Several low-pressure systems and their associated fronts occurred in rapid succession, within a context of very active Atlantic circulation, persistent advection of moist air and frequent strong pressure gradient conditions.
- This period was characterized by the **extraordinary persistence of precipitation**, locally intense, in and by the **absence of recovery periods** between successive events.
- The relevance of this sequence lies not only in the intensity of individual cyclones, but also in the **cumulative nature of their effects**.

Introduction

- Repeated episodes of highly efficient rainfall associated with **persistent moist westerly and south-westerly flows**, often of tropical or subtropical origin, together with **progressively saturated soils**, resulted in an increasingly intense hydrological response across numerous river basins, causing flooding and impacts on urban areas, infrastructure, economic activities and essential services.
- Across extensive areas of the Atlantic drainage basin and southern peninsular Spain, **accumulated precipitation exceeded three times the 1991–2020 climatological reference values**. The most significant impacts were concentrated in Andalusia and Extremadura.

Introduction

- The **most severe episode** occurred between 3 and 7 February, associated with **storm Leonardo**, when extraordinary precipitation was linked to a subtropical atmospheric river. **Extreme values were recorded**, including 577 mm in 24 hours at Grazalema (Cádiz, Andalusia), representing a **historical record**. Over the full period, **cumulative totals in this area exceeded 2500 mm in just over three weeks**.
- From a climatological perspective, this **sequence of events** ranks among the **most significant since at least 1961** over large parts of peninsular Spain, and among **the three most outstanding events of the 21st century** in terms of accumulated precipitation over time scales ranging from two weeks to one month.

High-impact Atlantic cyclones

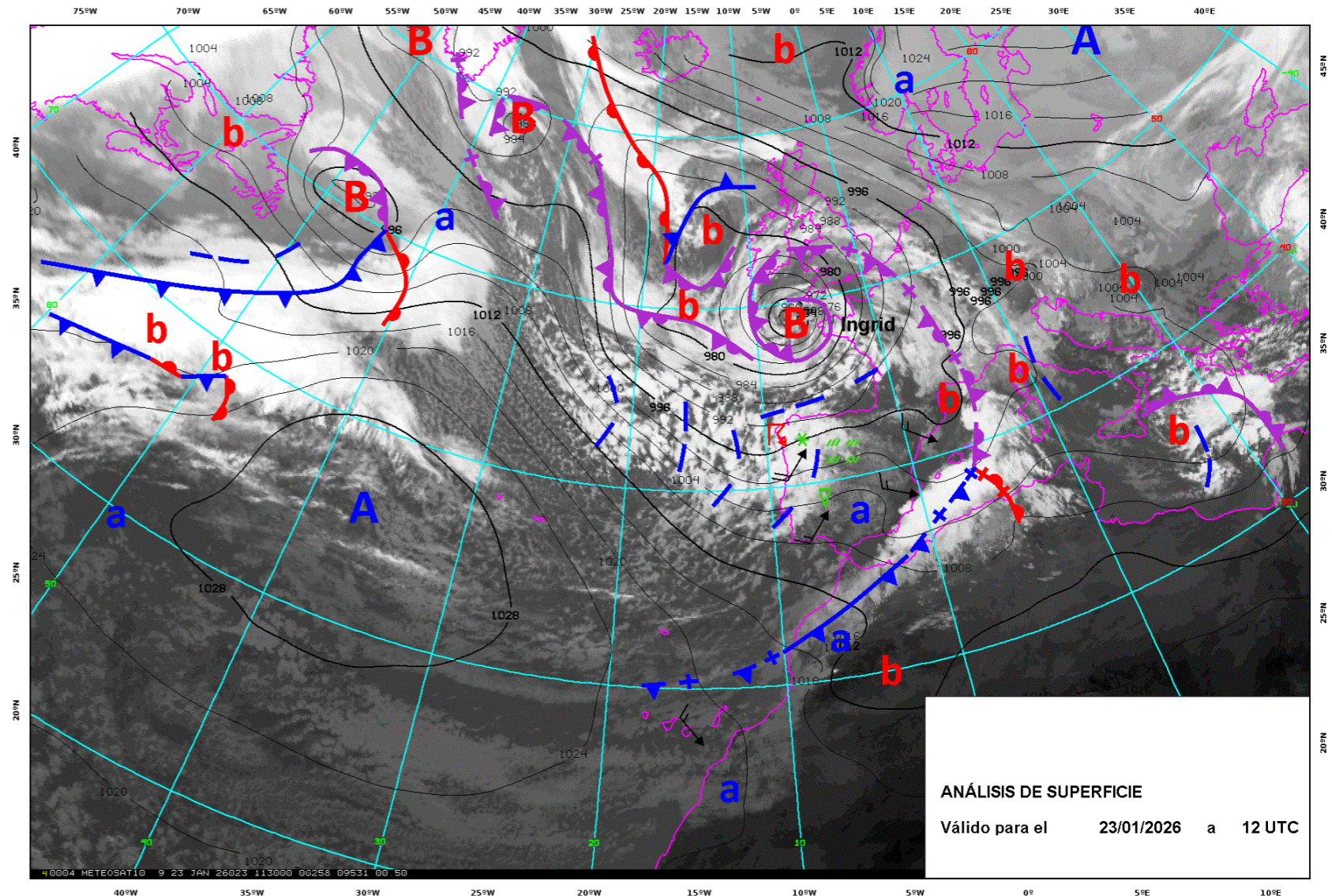
Cyclone	Period	Synoptic context	Dominant effects
Ingrid	22-25 Jan	Atlantic cyclogenesis with north-westerly flow and polar maritime air.	Severe maritime conditions, very strong winds, snowfall at low elevations; precipitation exceeding 100 mm in western Andalusia.
Joseph	26-27 Jan	Very active cold front and strong pressure gradient.	Heavy rainfall over western Iberia; urban impacts and wind-related incidents in western Andalusia.
Kristin	28 Jan	Small, deep and very rapidly moving low-pressure system from west to east.	Precipitation maxima in Andalusia; extreme wind gusts in Granada and Cáceres; maritime impacts in the Alboran Sea and the Strait of Gibraltar.
Leonardo	3-7 Feb	Quasi-stationary Atlantic cyclone associated with a subtropical atmospheric river.	Most adverse episode; extraordinary precipitation over the western Betic ranges; river flooding, evacuations and very extensive damage.
Marta	7-8 Feb	Rapid passage of an Atlantic low following Leonardo.	Renewed rainfall and strong winds; persistence of river flooding and runoff problems.
Nils	10-12 Feb	Deep Atlantic depression west of Ireland with a marked pressure gradient.	Severe maritime and wind conditions; significant rainfall in Cádiz and Cáceres; persistence of accumulated impacts.
Oriana	13-14 Feb	Mature cyclone moving from the Bay of Biscay into the western Mediterranean, with strong north-westerly flow.	Very strong winds, widespread precipitation and impacts in Andalusia; end of the most adverse cyclone sequence.

Chronological synthesis of the sequence of high-impact Atlantic cyclones, including their synoptic context and dominant effects

Ingrid

Cyclone	Period	Synoptic context	Dominant effects
Ingrid	22-25 Jan	Atlantic cyclogenesis with north-westerly flow and polar maritime air.	Severe maritime conditions, very strong winds, snowfall at low elevations; precipitation exceeding 100 mm in western Andalusia.

Although this event had its greatest impact over **northern peninsular Spain**, it also produced **notable effects over southern and south-western regions**. In western Andalusia and the Strait of Gibraltar area, **local precipitation totals exceeded 100 mm**, with more than **132 mm recorded at Grazalema (Cádiz)** on 25 January.

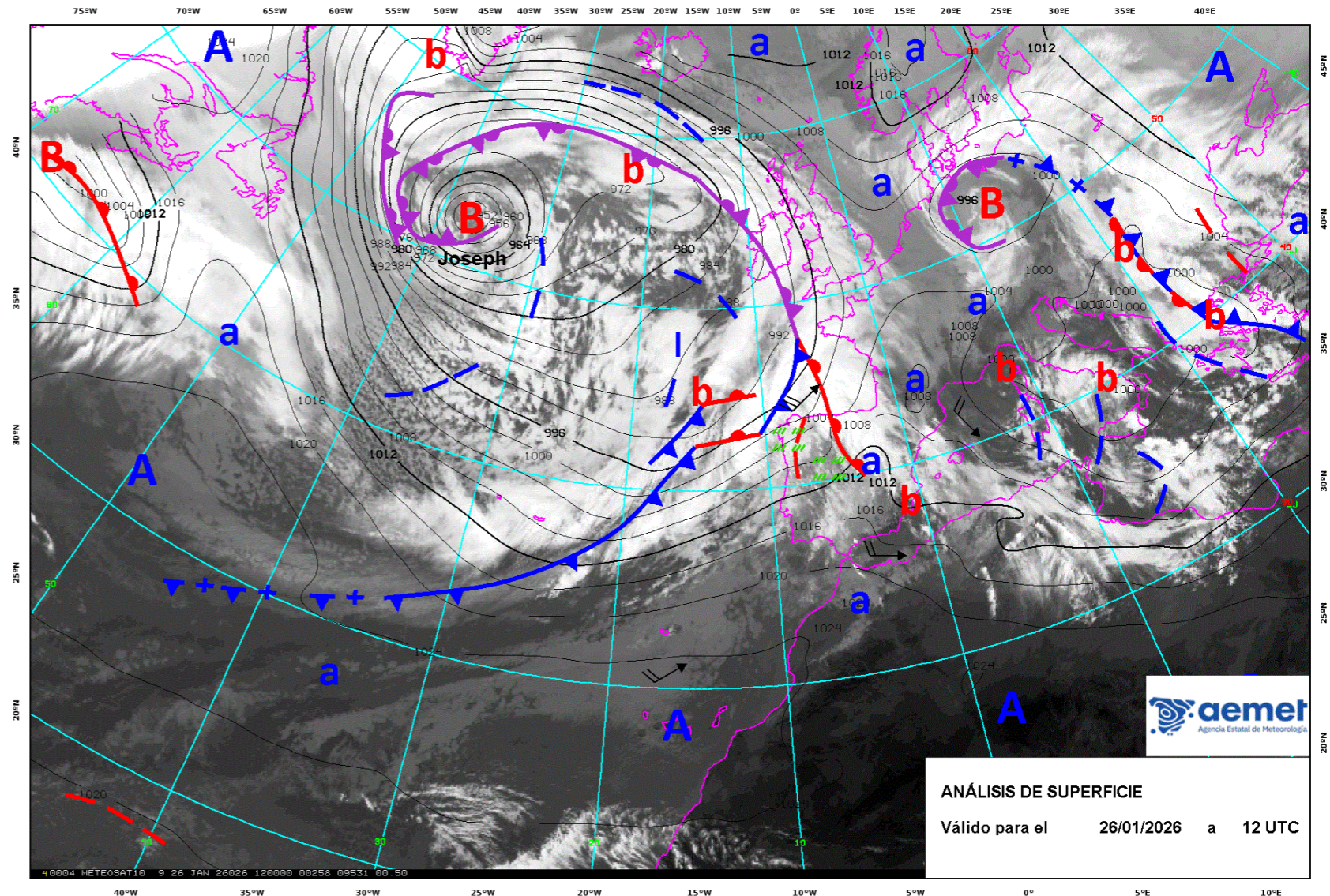


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Joseph

Cyclone	Period	Synoptic context	Dominant effects
Joseph	26-27 Jan	Very active cold front and strong pressure gradient.	Heavy rainfall over western Iberia; urban impacts and wind-related incidents in western Andalusia.

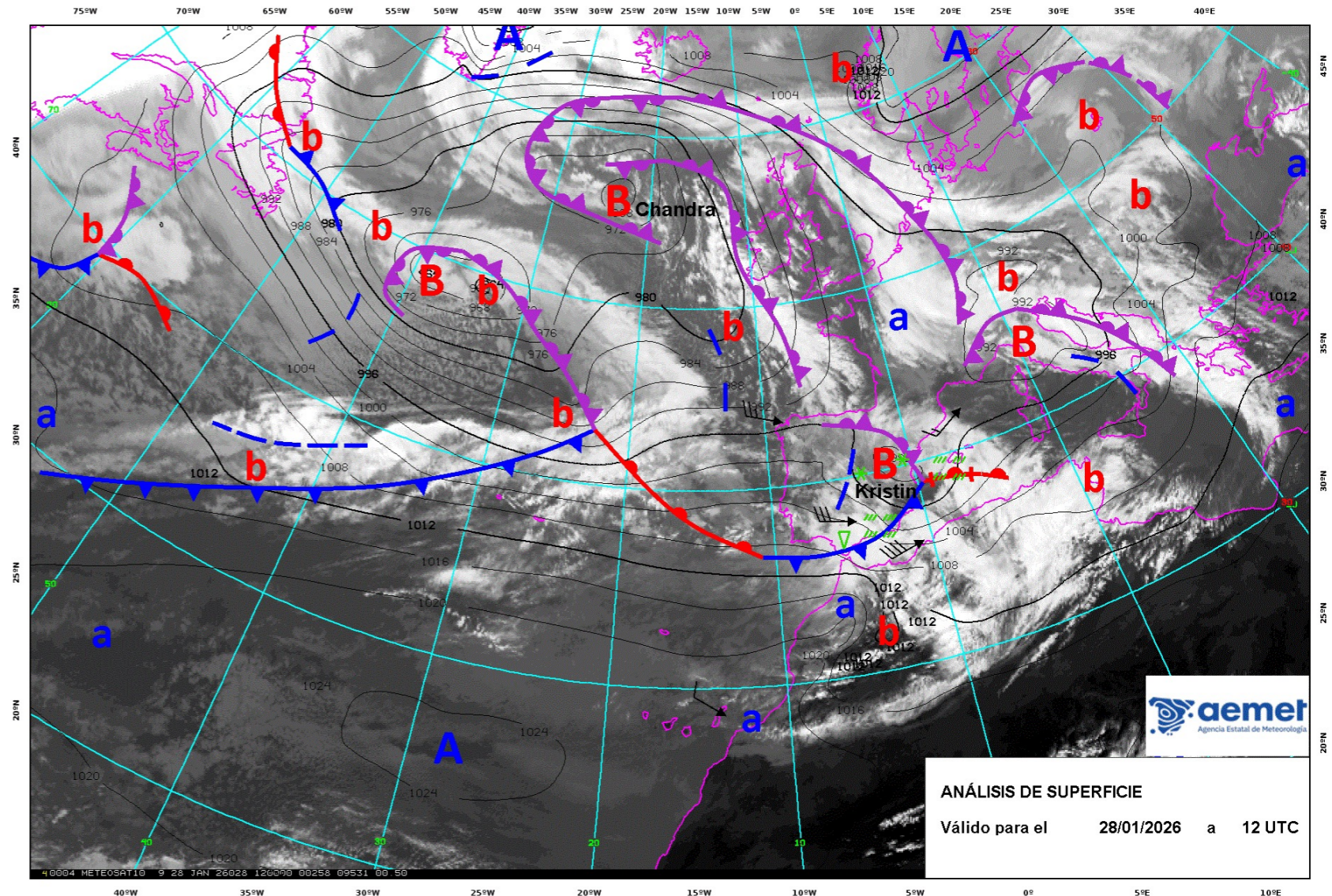
On 27 January, **124 mm** were recorded at **Grazalema**, with significant impacts also affecting northern **Cáceres (Extremadura)** and southern **Ávila (Castile and León)**.



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Cyclone	Period	Synoptic context	Dominant effects
Kristin	28 Jan	Small, deep and very rapidly moving low-pressure system from west to east.	Precipitation maxima in Andalusia; extreme wind gusts in Granada and Cáceres; maritime impacts in the Alboran Sea and the Strait of Gibraltar.

Although this event had its greatest impact over **northern peninsular Spain**, it also produced **notable effects over southern and southwestern regions**. In western Andalusia and the Strait of Gibraltar area, **local precipitation totals exceeded 100 mm**, with more than **132 mm recorded at Grazalema (Cádiz)** on 25 January.



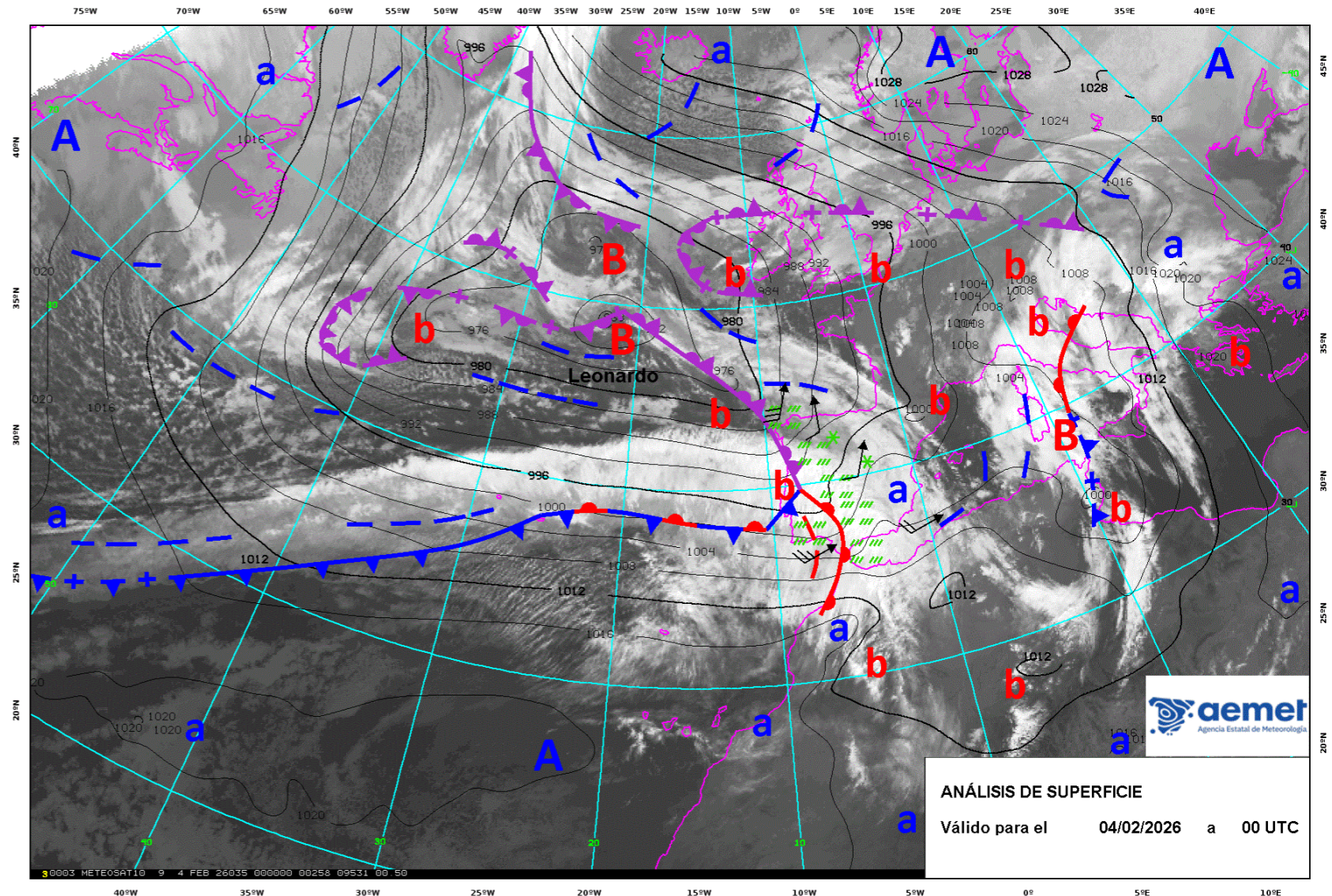
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Leonardo

Cyclone	Period	Synoptic context	Dominant effects
Leonardo	3-7 Feb	Quasi-stationary Atlantic cyclone associated with a subtropical atmospheric river.	Most adverse episode; extraordinary precipitation over the western Betic ranges; river flooding, evacuations and very extensive damage.

Leonardo was the **most severe** meteorological event of the sequence. It was a **large Atlantic cyclone that remained nearly stationary** northwest of the Iberian Peninsula. Its circulation transported an **exceptionally moist tropical air mass** into southern Iberia, forming a major **westerly and south-westerly atmospheric river** that directly affected Andalusia. The most critical day was **4 February**, when the **warm front became nearly stationary over southern Iberia**, producing precipitation of **extraordinary intensity** and, in particular, **persistence**, especially over the western Betic ranges and windward slopes.

Grazalema recorded 577 mm on 4 February (00–24 UTC) and a further **146 mm on 5 February**; **Alpandeire recorded 197 mm** and **Cortes de la Frontera 170 mm**.

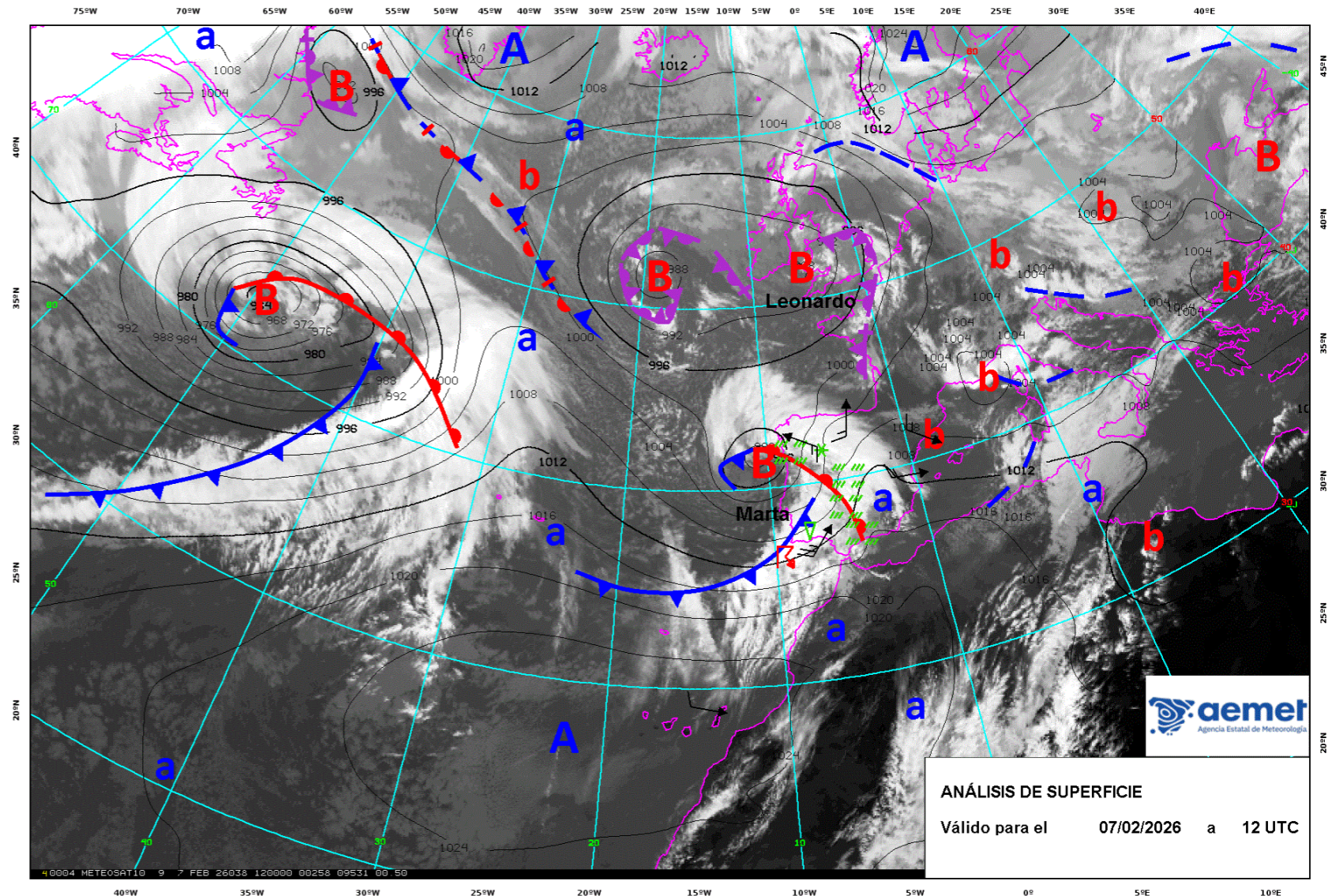


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Marta

Cyclone	Period	Synoptic context	Dominant effects
Marta	7-8 Feb	Rapid passage of an Atlantic low following Leonardo.	Renewed rainfall and strong winds; persistence of river flooding and runoff problems.

In a region already severely affected by Leonardo, Marta acted as a **reinforcing cyclone**. On 7 February, **82 mm were recorded at Grazalema**, while significant totals were observed in Málaga and Cádiz.

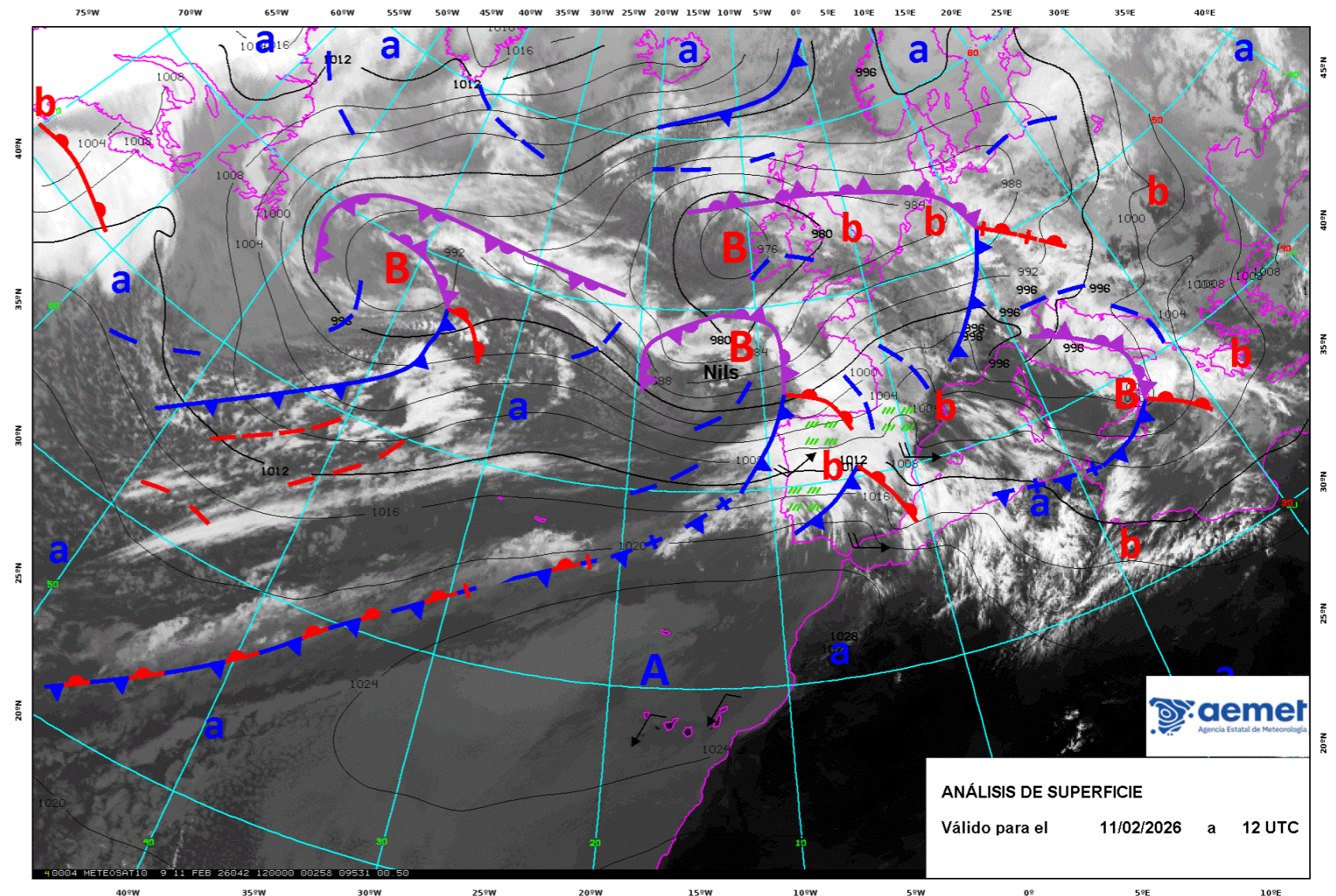


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Cyclone	Period	Synoptic context	Dominant effects
Nils	10-12 Feb	Deep Atlantic depression west of Ireland with a marked pressure gradient.	Severe maritime and wind conditions; significant rainfall in Cádiz and Cáceres; persistence of accumulated impacts.

Precipitation observations indicate that this event was also **highly significant in Andalusia and Extremadura**. On 11 February, **92 mm** were recorded at **Grazalema**.

Although Nils did not produce the most severe impacts in these regions, it contributed to **prolonged hydrological saturation** and maintained exposure of infrastructure, woodlands and transport networks that had already been weakened by previous events.

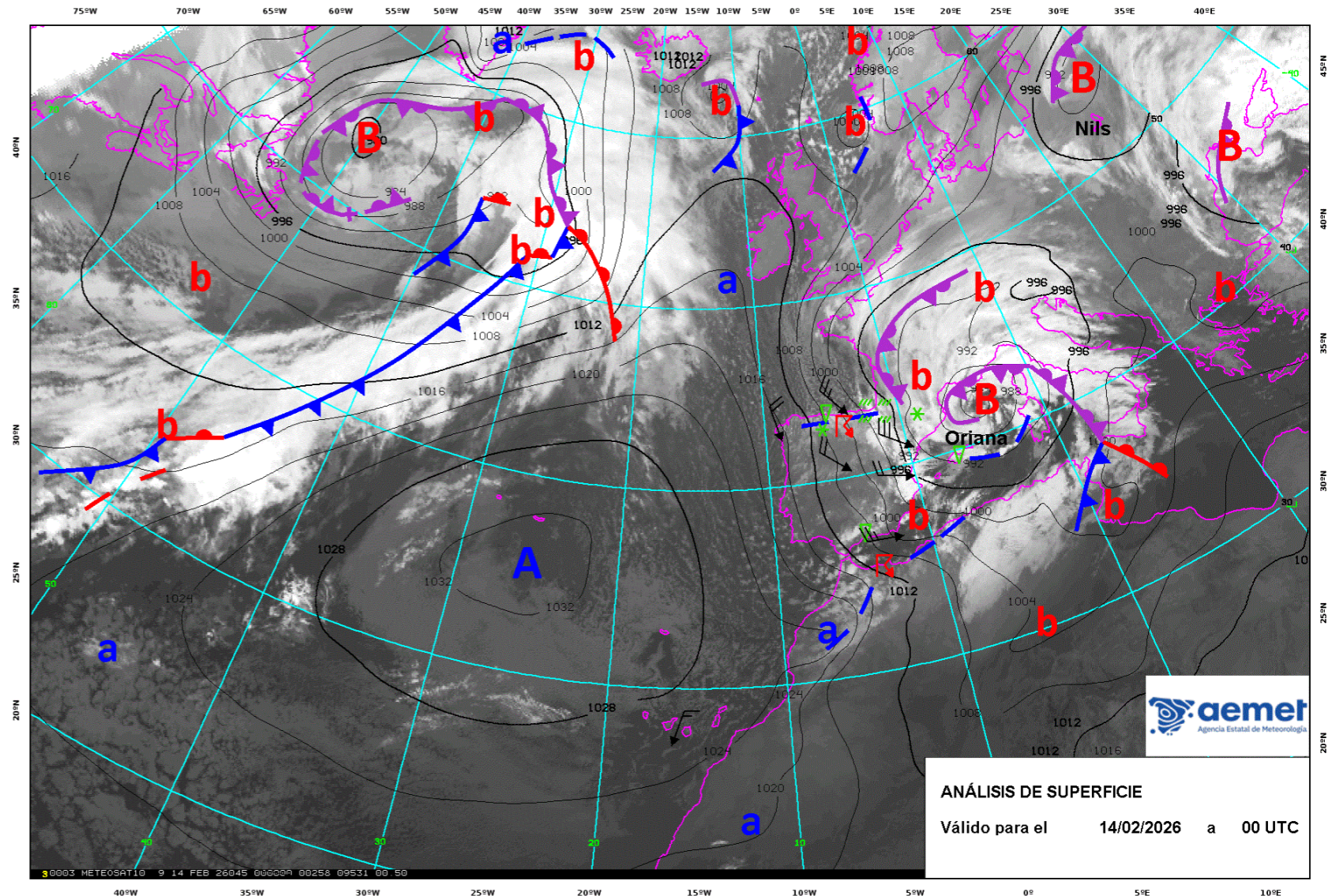


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Oriana

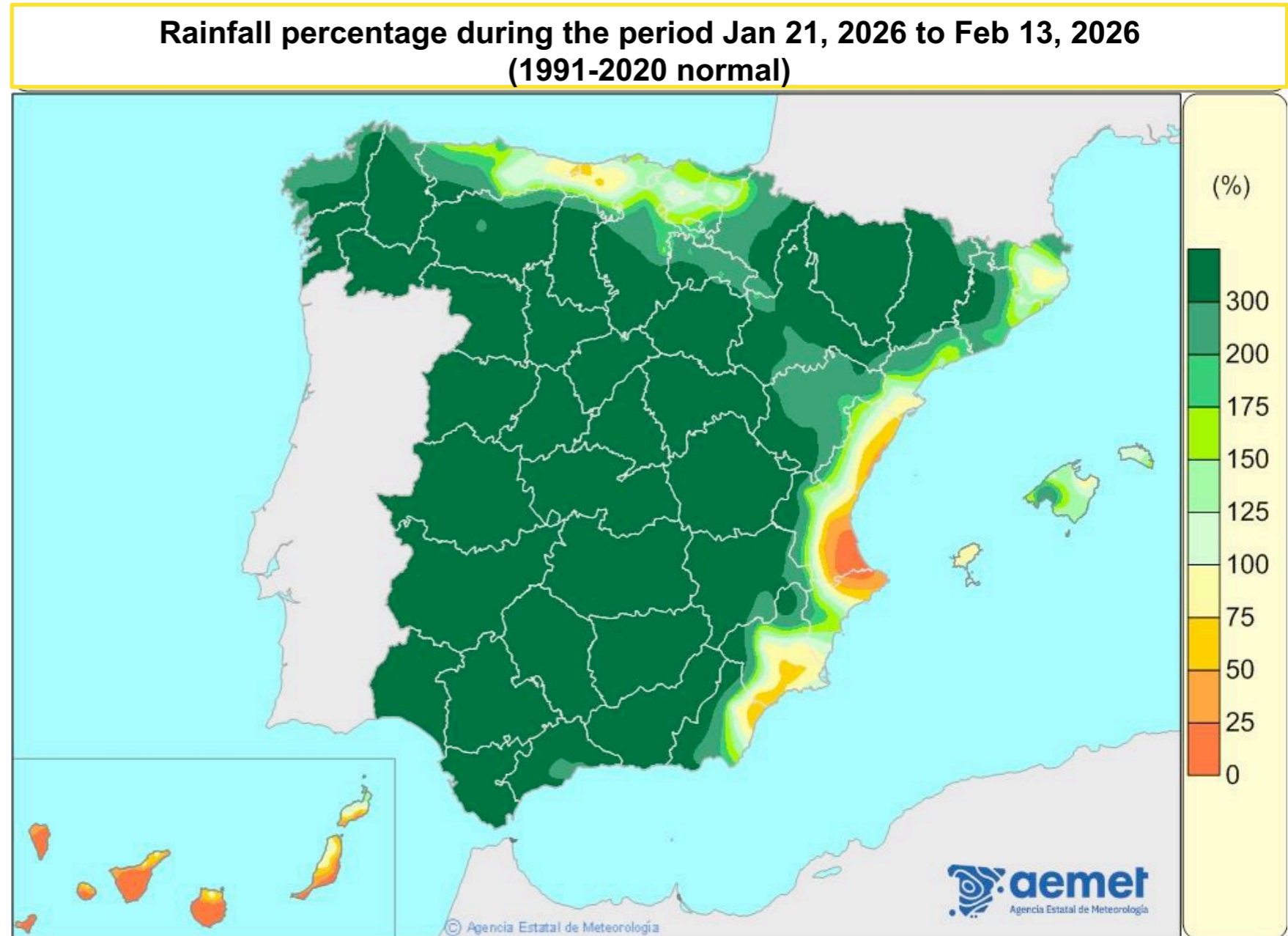
Cyclone	Period	Synoptic context	Dominant effects
Oriana	13-14 Feb	Mature cyclone moving from the Bay of Biscay into the western Mediterranean, with strong north-westerly flow.	Very strong winds, widespread precipitation and impacts in Andalusia; end of the most adverse cyclone sequence.

In Andalusia, a notable daily precipitation total of **76 mm** was recorded at **Grazalema** on 13 February.



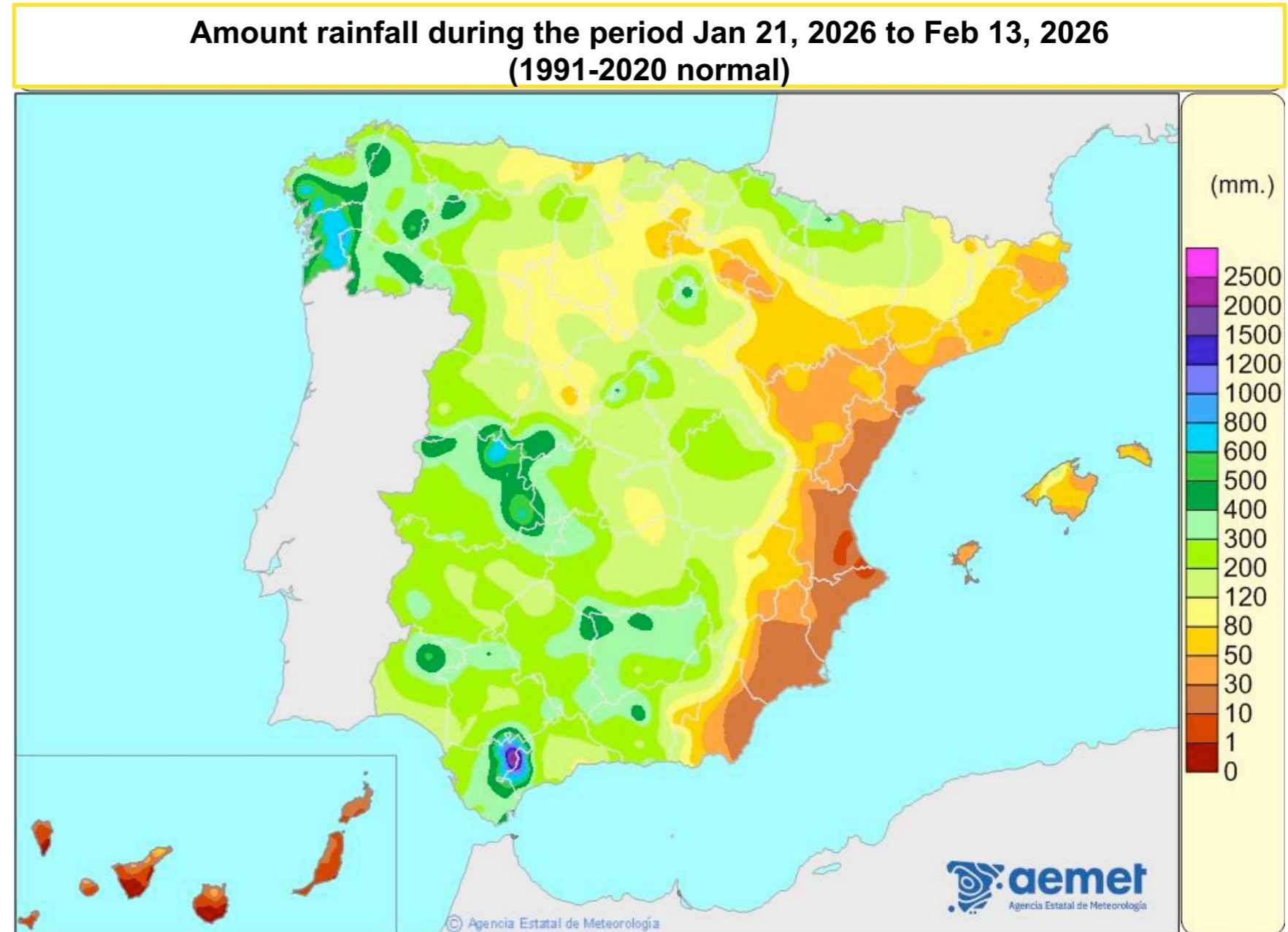
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Accumulated precipitation between 21 January and 13 February was exceptional across the Atlantic drainage basin and the southern slopes of the Pyrenees



Climatology

The Sierra de Grazalema stands out in particular, with **cumulative totals exceeding 2500 mm** at the locality of **Grazalema**.



Ten highest mean precipitation values recorded in Andalusia for accumulation periods of 7, 14, 21 and 31 days, and the dates on which they occurred (data since 1961).

Records of mean precipitation values in Andalusia							
7 days		14 days		21 days		31 days	
P (mm)	Period	P (mm)	Period	P (mm)	Period	P (mm)	Period
196,6	20-26 Dec 2009	290,9	18-31 Dec 2009	362,8	18 Dec 2009 – 7 Jan 2010	419,8	14 Dec 2009 – 13 Jan 2010
158,9	26 Dec 1962 – 1 Jan 1963	253,5	1-14 Jan 1970	306,9	10-30 Dec 1996	401,2	10 Dec 1996 – 9 Jan 1997
142,3	16-22 Dec 1996	252,0	10-23 Dec 1996	301,5	28 Dec 1969 – 17 Jan 1970	345,5	25 Dec 1962 – 24 Jan 1963
139,5	2-8 Jan 1970	245,7	26 Dec 1962 – 8 Jan 1963	296,4	26 Dec 1962 – 15 Jan 1963	345,0	13 Nov – 13 Dec 1989
135,3	17-23 Nov 1989	208,2	13-26 Nov 1989	266,0	18 Nov – 8 Dec 1989	322,3	27 Dec 1969 – 26 Jan 1970
130,5	28 Feb – 6 Mar 2018	197,9	16-29 Nov 1961	260,9	27 Feb – 19 Mar 2018	304,6	24 Dec 1995 – 23 Jan 1996
125,2	20-26 Dec 2000	196,0	26 Feb – 11 Mar 2018	251,2	21 Jan – 10 Feb 2026	283,4	24 Feb – 26 Mar 2018
123,1	2-8 Feb 2026	193,8	25 Jan – 7 Feb 2026	244,9	30 Nov – 20 Dec 1963	280,3	14 Jan - 13 Feb 2026
116,3	2-8 Nov 1982	173,6	22 Dec 1961 – 4 Jan 1962	223,9	22 Dec 1995 – 11 Jan 1996	278,6	7 Feb – 9 Mar 2010
114,9	2-8 Nov 2012	170,5	7-20 Mar 2025	219,4	2-22 Nov 1983	269,4	17 Jan – 16 Feb 1979

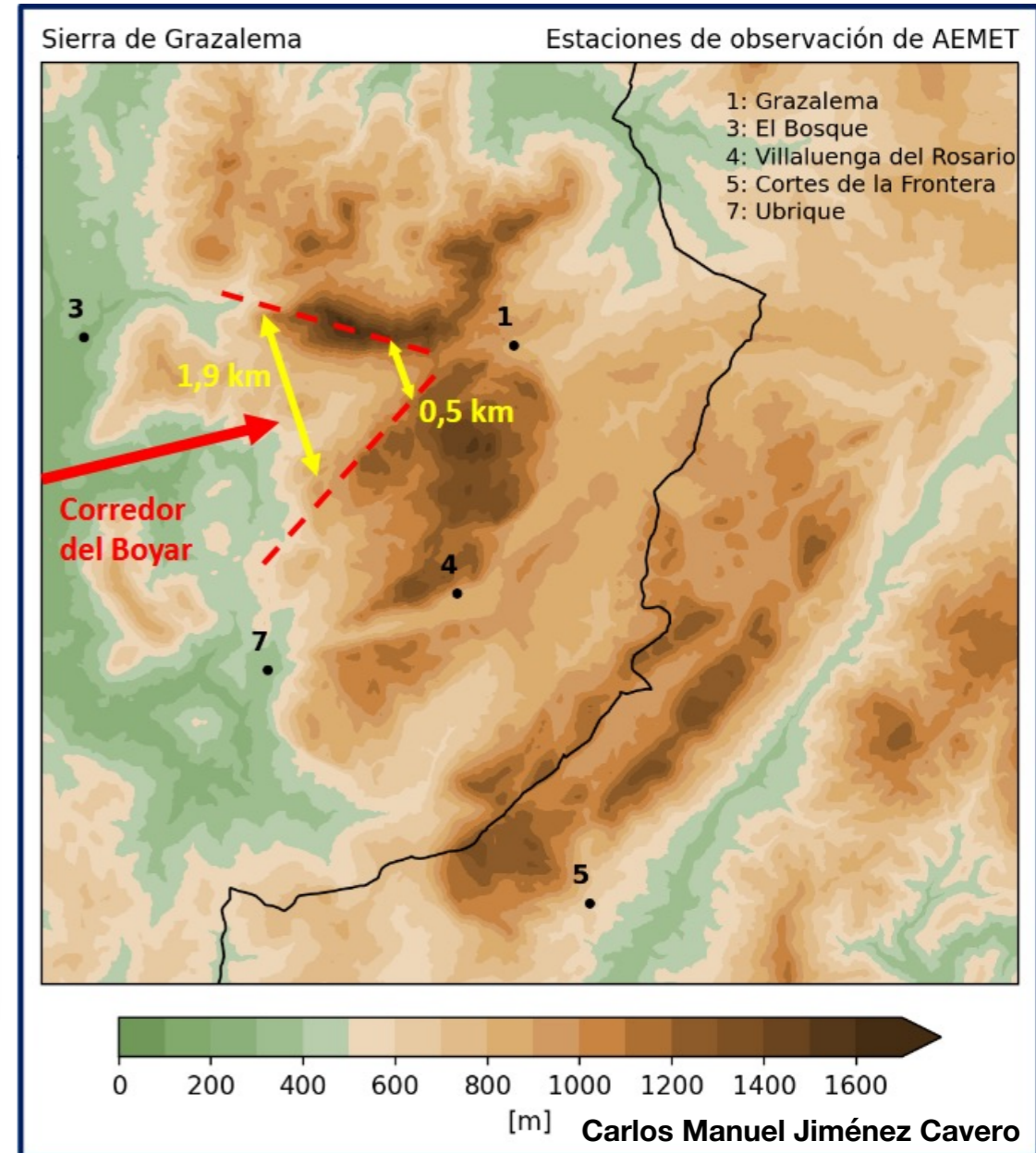
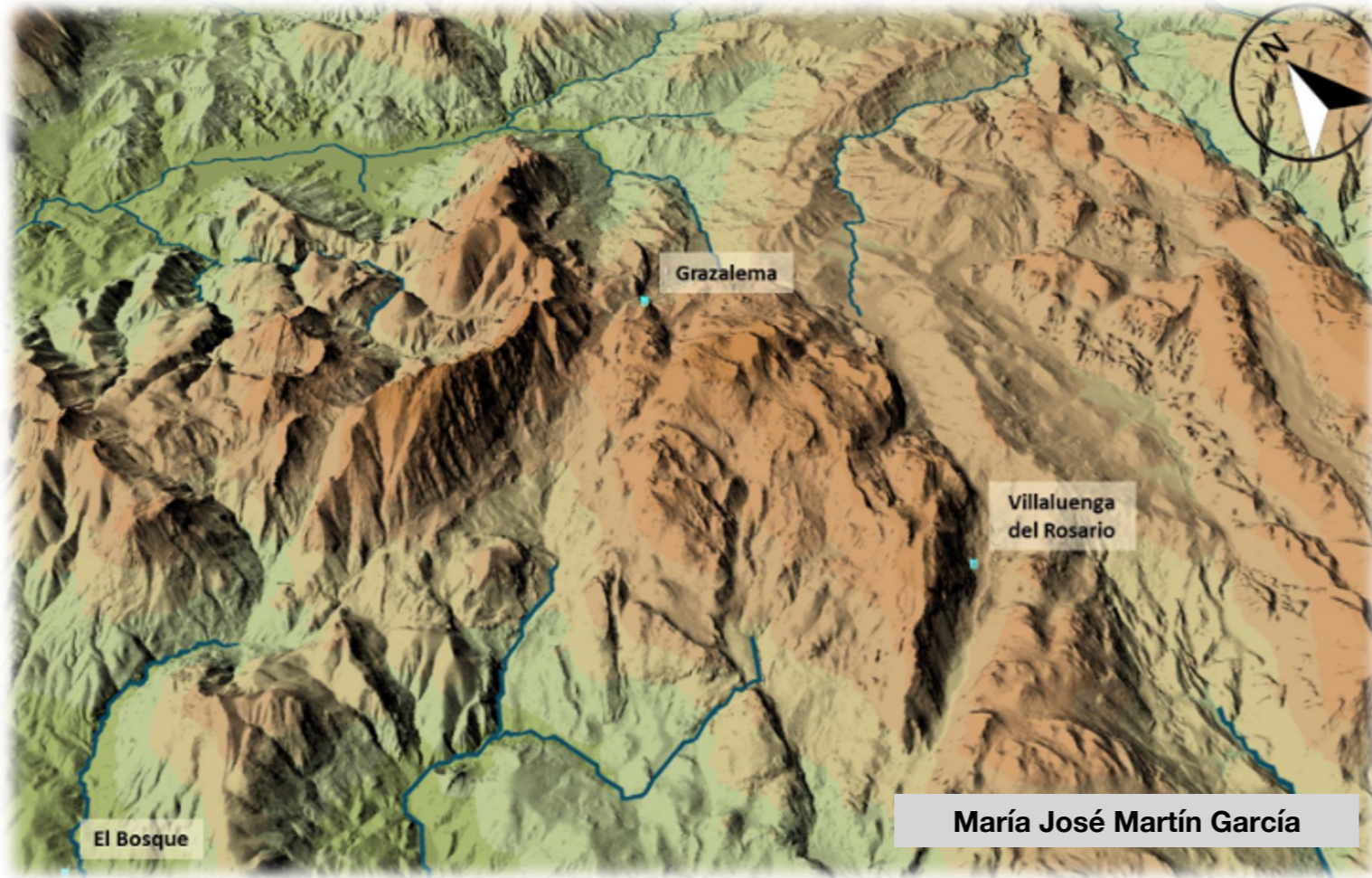
Grazalema

- **Automatic weather station** located at **913 m** above sea level, with observations available since 2001.
- Manual station located at 823 m above sea level, with observations available since 1912.



David Momblona Montiel

Grazalema



Grazalema

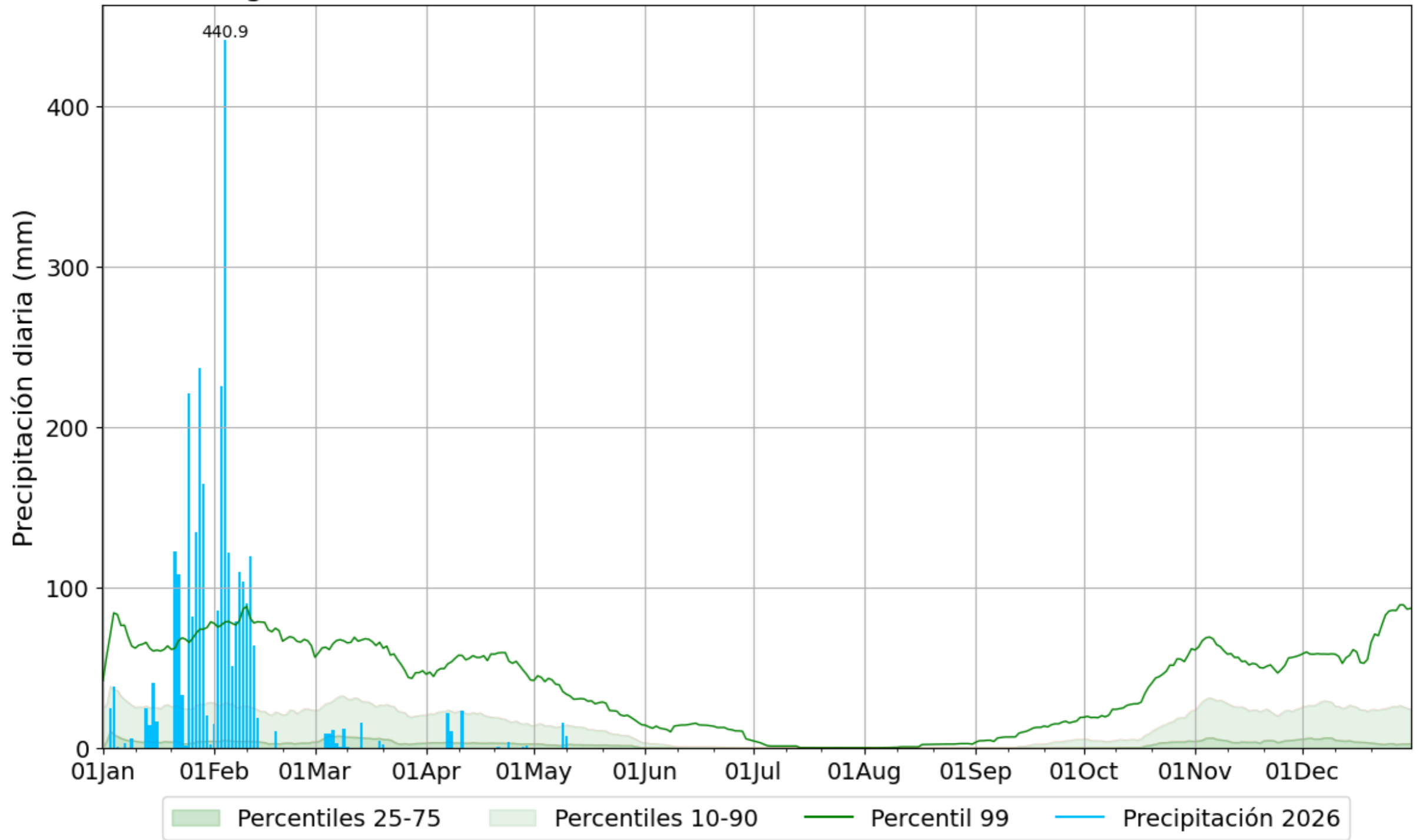


David Momblona Montiel

Grazalema

Precipitación diaria 09-09h - GRAZALEMA. ID: 5911A
Climatología: 2000-2020

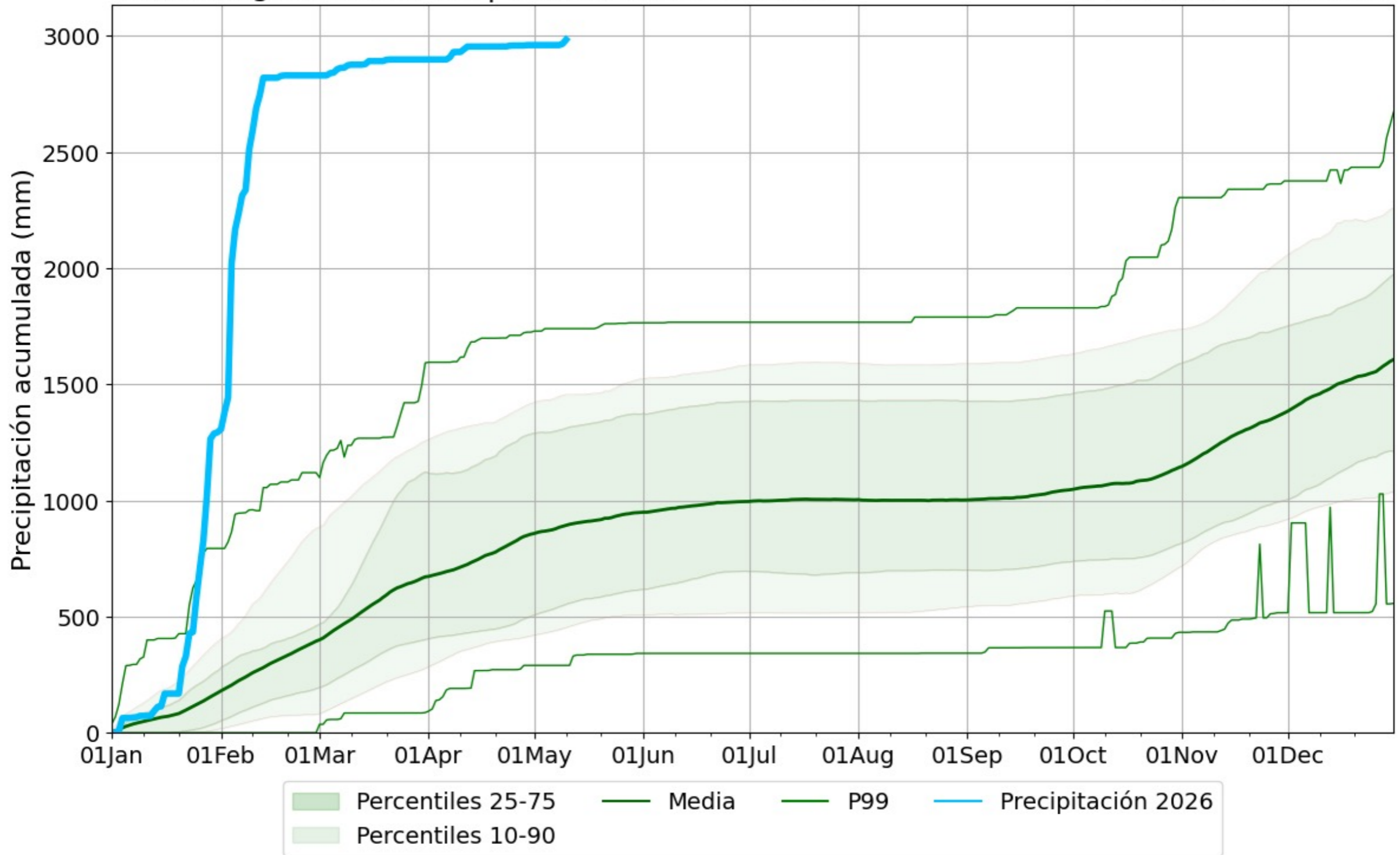
Datos: AEMET
1-Ene al 31-Dic de 2026



Grazalema

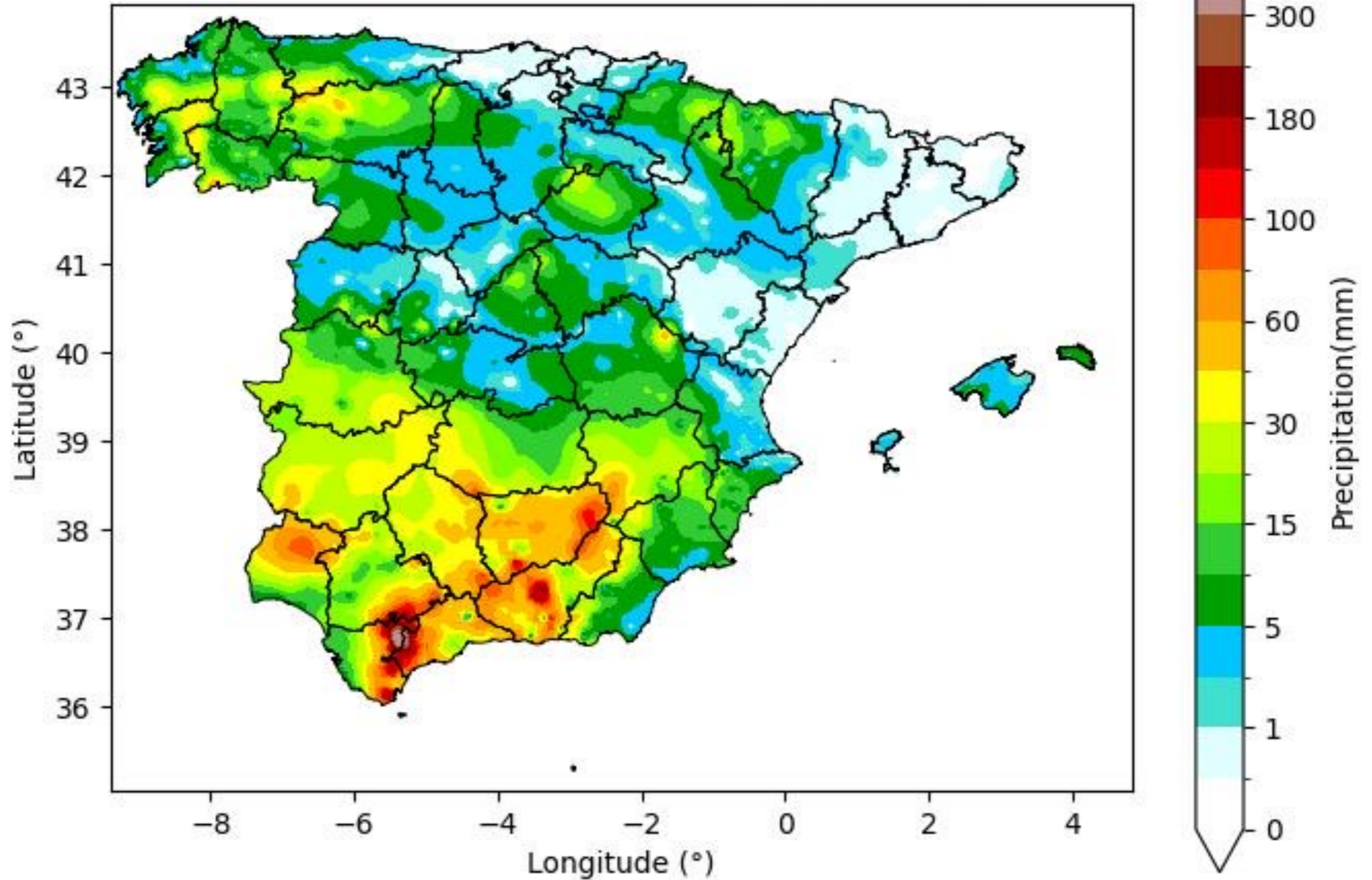
Precipitación anual acumulada - GRAZALEMA. ID: 5911A
Climatología: 2000-2020 | Extremos: 2000-2025

Datos: AEMET
1-Ene al 31-Dic de 2026



Grazalema

24-hour kriging precipitation - 4 Feb, 2026



Grazalema

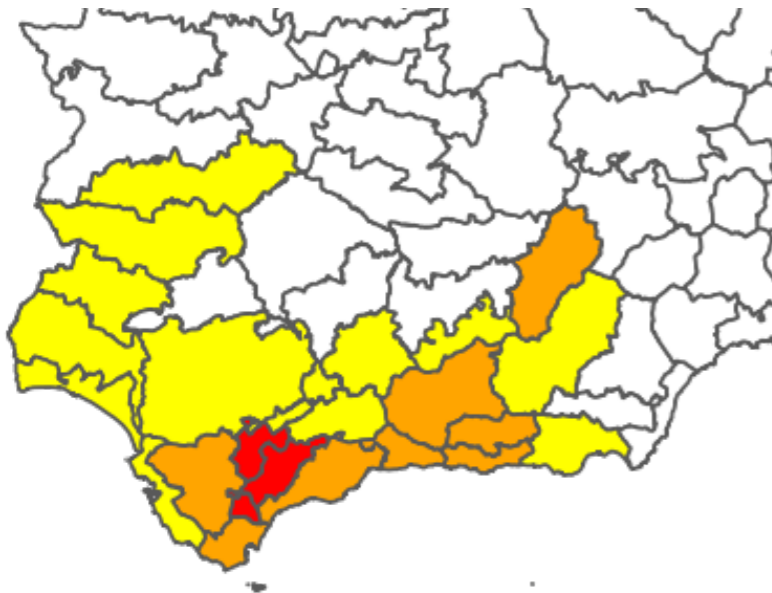
- The **577.0 mm** recorded at the automatic Grazalema station on **4 February 2026**, under the influence of storm Leonardo, represent the station's 24-hour precipitation record (00–24 UTC) and **the second-highest daily total measured by any AEMET automatic station**, exceeded only by the 771.8 mm recorded at Turís (Valencia) on 29 October 2024.
- The **440.9 mm** recorded in the climatological day (07-07 UTC) also greatly **exceeds the 348.9 mm** measured at the **Grazalema manual station** on 27 January 1948.
- The **817 mm** recorded at the **Oliva** manual station (Valencia) on November 3, 1987 remain the **record for 24-hour precipitation** in Spain.

Grazalema

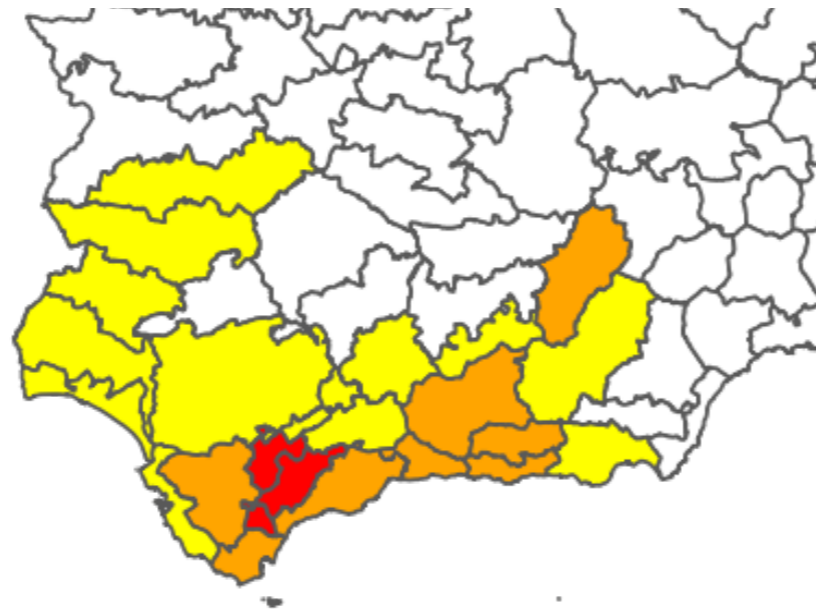
- The **1130.9 mm** recorded at the automatic station **between 3 and 9 February 2026** (pluviometric days) constitute the station's weekly precipitation record, **surpassing the previous national record of 1023.2 mm recorded at the Grazalema manual station** between 14 and 20 December 1958.
- The **2448.3 mm** recorded at the automatic station **between 21 January and 10 February 2026** (pluviometric days) constitute the record for three-week precipitation at that station and also clearly exceed the 1456.9 mm recorded at the Grazalema manual station (previous national record) between 3 and 23 December 1958, representing an increase of **68 %**.
- The **2727.8 mm** accumulated between **13 January and 12 February 2026** (pluviometric days) constitute the station's record for a 31-day period and clearly **exceed the previous national record of 1674 mm recorded at Cortes de la Frontera (Málaga)** between 18 November and 18 December 1989, representing an increase of 63%.

Warnings

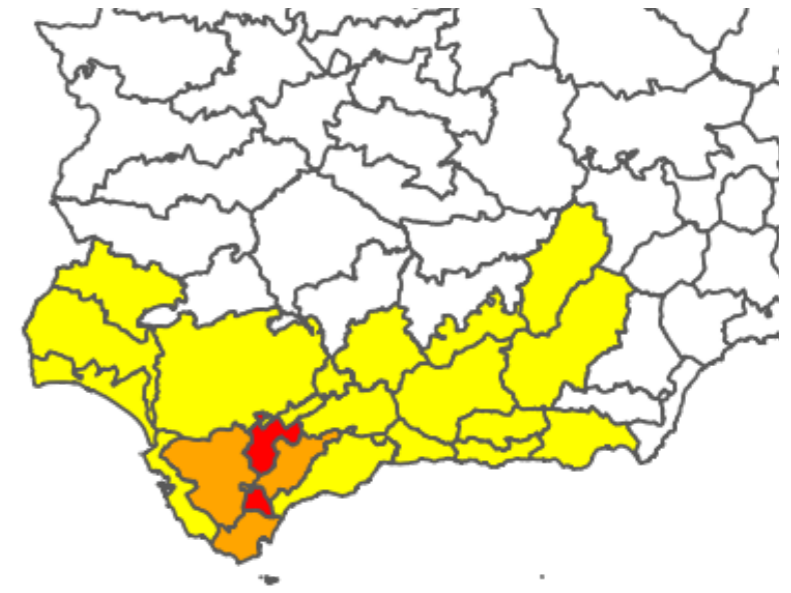
P2 D-0



P2 D-1



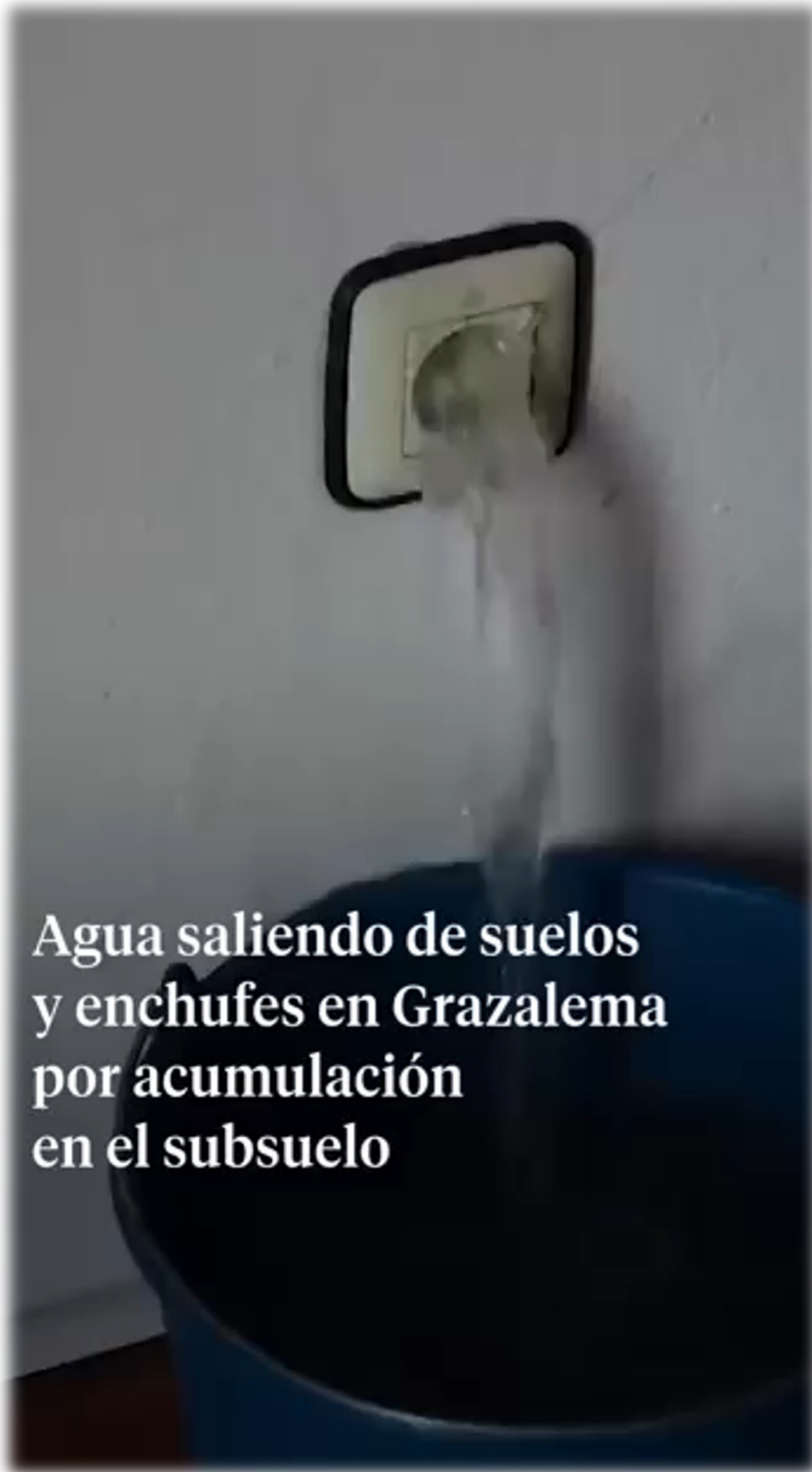
P2 D-2



WARNINGS IN ANDALUCÍA IN FORCE FOR FEBRUARY 4

- **Red warnings** were issued for **Grazalema** on **February 2 at 18 UTC** (an orange warning was issued last night).
- No updates were made after the morning of **February 3**. **At 10:30 UTC** of this day, a **red warning** was issued for Ronda.
- Total rainfall amounts over 24 h were updated during the validity period of the warning in Grazalema.

Videos



Agua saliendo de suelos y enchufes en Grazalema por acumulación en el subsuelo



Chronology 3rd feb

3000 people evacuated (CA, JA)

EMA 112 @E112Andalucia

Este es el mapa meteorológico de hoy, una jornada que de nuevo estará marcada por la lluvia y las fuertes rachas de viento, más intensas a última hora. OJO al aviso amarillo en Huelva y Cádiz. Mucha precaución.

Cádiz Junta y 2 más

7:34 a. m. · 3 feb. 2026 · 9,748 Visualizaciones

EMA 112 @E112Andalucia

Mandamos Es-Alert a los 47 municipios de las comarcas afectadas por:

- ✓ Aviso rojo por lluvias Grazales en #Cádiz y serranía de Ronda en #Málaga
- ✓ Aviso naranja alto en Estrecho Gaditano
- ⚠ Prudencia, evita desplazamientos y sigue #instrucciones112 #BorrascaLeonardo

Alerta de Protección Civil

3 de febrero 2026

Comarcas de Grazales y Serranía de Ronda

S-ALERT

8:31 p. m. · 3 feb. 2026 · 24,6 mil Visualizaciones

EMA 112 @E112Andalucia

Mandamos nuevo mensaje #EsAlert en Jaén para la zona de Los Puentes por riesgo de inundación.

- ⚠ Por tu seguridad, prudencia máxima:
- ▶ Evita desplazamientos y nunca cruces zonas anegadas.
- ▶ No transites por la zona del cauce
- ▶ En zonas inundables sube a zonas altas.

#BorrascaLeonardo #RíoAtmosférico

Alerta de Protección Civil ante el Riesgo de Inundaciones.

3 de febrero 2026

Área de envío Zona de Los Puentes en Jaén

ES-ALERT

9:14 p. m. · 3 feb. 2026 · 19,4 mil Visualizaciones

Aviso Especial

Temporal atlántico

Información elaborada el 3 de febrero

Península, excepto cuadrante nordeste

Desde el miércoles 4 hasta, al menos, el sábado 7

- La borrasca Leonardo arrastrará una masa de aire muy húmedo, que provocará lluvias muy abundantes, especialmente en Andalucía.
- Los suelos están ya muy saturados. Las nuevas lluvias pueden provocar inundaciones, desbordamientos de cauces y deslizamientos de tierra.
- El jueves se esperan rachas muy fuertes de viento en amplias zonas, con posibles caídas de ramas, árboles y objetos situados en zonas elevadas.

aemet

EMA 112 @E112Andalucia

@AndaluciaJunta eleva a Situación Operativa 2 el Plan ante el Riesgo de Inundaciones en Andalucía #PERI

▶ Amplía información y conoce las medidas extraordinarias adoptadas ante las predicciones meteorológicas e hidrológicas en este enlace

La Junta eleva a Situación Operativa 2 el Plan ante el Riesgo de Inundaciones en Andal...

De juntadeandalucia.es

4:20 p. m. · 3 feb. 2026 · 16,3 mil Visualizaciones

EMA 112 @E112Andalucia

El consejero @interiorjunta eleva a situación operativa 2, el Plan de Emergencia ante el Riesgo de Inundaciones en #Andalucía, dada la situación meteorológica e hidrológica extraordinaria para los próximos días. Máxima prudencia y sigue #instrucciones112

Plan de Emergencia ante el Riesgo de Inundaciones (PERI)

Actividad SITUACIÓN OPER

1:03 p. m. · 3 feb. 2026 · 64,9 mil Visualizaciones

EMA 112 @E112Andalucia

Recuerda: suspendida mañana #4F actividad educativa PRESENCIAL en toda Andalucía, salvo en provincia Almería

- ✓ La medida afecta a centros de día y de participación activa (hogares del pensionista)

Trabajamos por tu seguridad #AndaluciaPreviene #BorrascaLeonardo #RíoAtmosférico

Suspensión de la actividad educativa presencial en todos los centros educativos de Andalucía (salvo Almería).

3:29 p. m. · 3 feb. 2026 · 26,8 mil Visualizaciones

Emergency Plan (Sit-2)

Closure of schools & other public centers

Chronology 4th feb

EMA 112 @E112Andalucia

#ACTUALIZACIÓN @AEMET_Andalucia activa el aviso ROJO por lluvias en el Estrecho #Cádiz que se suma a las comarcas de #Grazalema (Cádiz) y #Ronda (Málaga)

Extrema la precaución estas zonas y sigue las instrucciones del 1-1-2

Cádiz Junta y Consejería de la Presidencia y Emergencias

6:33 a. m. · 4 feb. 2026 · 63,1 mil Visualizaciones

EMA 112 @E112Andalucia

EXTREMA la precaución con las rachas de viento que trae la #BorrascaLeonardo y sigue nuestras instrucciones de autoprotección.

Si necesitas ayuda en caso de emergencia, 112

7:39 a. m. · 4 feb. 2026 · 20,2 mil Visualizaciones

Several PMA deployed & coordination comitee

EMA 112 @E112Andalucia · 4 feb.

@E112Andalucia ha atendido 159 incidencias durante la madrugada y primeras horas de hoy miércoles

La mayoría en #Cádiz (55), #Málaga (27), #Granada (24), #Sevilla (19) y #Jaén (12)

El total de incidencias desde el inicio #BorrascaLeonardo asciende a 1.320, y ya son

Mostrar más

1 45 77 16 mil

EMA 112 @E112Andalucia

INFO de Seguridad | La dirección del Plan de Emergencia ante el Riesgo de Inundaciones encargó ayer a @UMEgob un análisis y peritaje de la situación de las balsas de contención de residuos mineros.

El trabajo realizado ha aportado total TRANQUILIDAD ya que NO se ha detectado incidencia alguna ni riesgo probable.

En la intervención en la mina de #Aznacóllar

#AndalucíaPreviene #BorrascaLeonardo #RíoAtmosférico

UME y 2 más

12:16 p. m. · 4 feb. 2026 · 25,4 mil Visualizaciones

EMA 112 @E112Andalucia · 4 feb.

#Balance #EMA112 ha atendido en lo que llevamos de jornada un total de 651 incidencias, la mayoría en #Cádiz (189).

Le siguen #Granada (119) #Málaga (94) #Sevilla (74) #Jaén (73), #Córdoba (56) #Huelva (35) y #Almería (11)

Desde el inicio de la #BorrascaLeonardo se han

Mostrar más

Consejería de la Presidencia y Emergencias

2 25 38 13 mil

EMA 112 @E112Andalucia · 4 feb.

En #Andalucía están desplegados 1.200 efectivos de la #EMAInfoca, al que se suman agentes de @guardiacivil y otros cuerpos que vigilan distintas zonas de riesgo

El contingente de @UMEgob se ha ampliado hasta 400 para intervenir en nuevas zonas como Grazalema en #Cádiz, Ronda

Mostrar más

1 39 101 26 mil

Specialized army unit (Sit-2)

Impacts due to rain, overflows & wind

Chronology 5-7th feb

Córdoba

EMA 112 @E112Andalucia · 5 feb.

Enviado aviso mensaje Es-Alert a la población de #Córdoba

Desalojadas varias urbanizaciones ante la crecida del Guadalquivir.

Mucha precaución y aléjese de las zonas inundables. ¡Es de vital importancia!

5 de febrero 2026

Alerta de Protección Civil

ES-ALERT

CÓRDOBA

18 124 155 65 mil

Jerez

EMA 112 @E112Andalucia · 5 feb.

Se envía mensaje Es-Alert para informar a los núcleos poblacionales de la zona rural de #Jerez que podrían quedar incomunicados ante la crecida del Guadalete.

También se incluye a las zonas que pudieran verse afectadas por un posible corte de la A-2003

Máxima prudencia

5 de febrero 2026

Alerta de Protección Civil

JEREZ

ES-ALERT

Cádiz Junta y 2 más

8 47 67 21 mil

ArcosFra-EIPuerto

EMA 112 @E112Andalucia · 5 feb.

Nuevas medidas preventivas y de seguridad en #Cádiz:

- Desalojos en Arcos de la Frontera.
- Es-Alert al entorno del Guadalete (zonas de Jerez y Puerto de Santa María). Análisis de nuevas zonas de evacuación en barriadas rurales de Jerez de la Frontera.

Si estás en la

5 de febrero 2026

Alerta de Protección Civil

ES-ALERT

2 138 191 46 mil

GRAZALEMA!!!

EMA 112 @E112Andalucia · 5 feb.

El consejero @antoniosanz confirma que se ha desalojado a todos los vecinos de Grazelema, #Cádiz sin incidencias.

La Junta anuncia que abren todos los colegios de #Andalucía, salvo los de las comarcas de Ronda y Grazelema, municipios y zonas afectadas por desalojos y centros

Mostrar más

2 30 61 9 mil

EMA 112 @E112Andalucia · 6 feb.

#BorrascaLeonardo

En el #PMA de #Córdoba, reunión de seguimiento del dispositivo:

- se comprueba alcance del agua en zonas desalojadas
- se informa del nivel de cauces y ríos
- acuerdan medidas de seguimiento y control para las próximas horas

Consejería de la Presidencia y Emergencias y 2 más

9 17 3 mil

EMA 112 @E112Andalucia · 6 feb.

La cifra de desalojados en la provincia de #Córdoba es de al menos 1.500 personas desde Villa del Río a Palma del Río, con especial incidencia en la capital, donde se han evacuado mil vecinos de 704 viviendas.

Se mantienen los desalojos ante la previsión de lluvias mañana

Junta de Andalucía y 2 más

35 50 6 mil

EMA 112 @E112Andalucia · 5 feb.

#Balance En la madrugada y primeras horas de hoy jueves se han gestionado un total de 187 incidencias a causa de #BorrascaLeonardo en toda #Andalucía

Por provincias: Jaén (52), Granada (44), Córdoba (25), Cádiz (19), Sevilla (18), Málaga (16), Huelva (10) y Almería (3)

30 50 7 mil

EMA 112 @E112Andalucia · 5 feb.

Ascienden a casi 4.000 los desalojados en Andalucía por la #BorrascaLeonardo

Consulta también el balance de emergencias gestionadas por @E112Andalucia y amplía información en este enlace

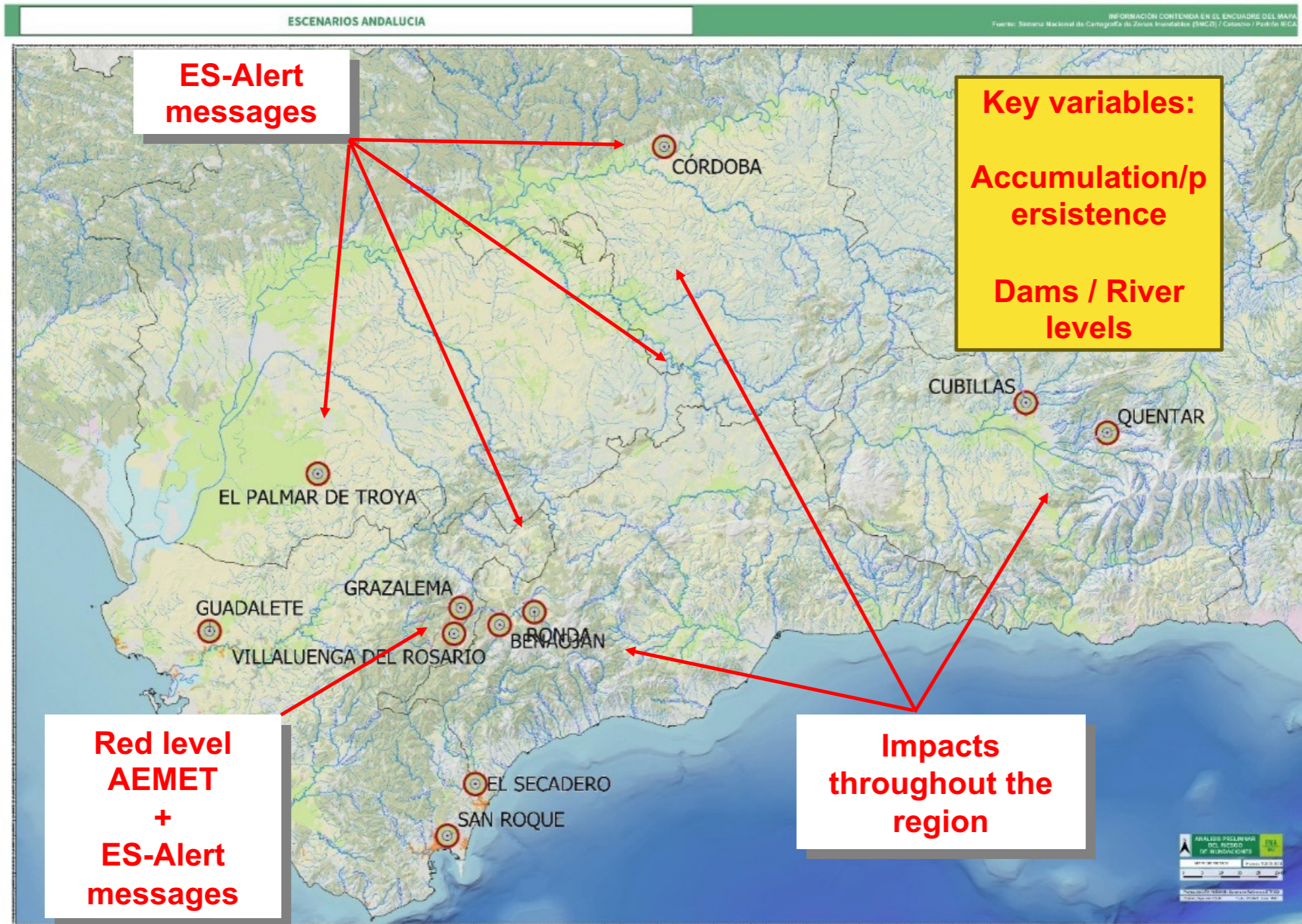
juntadeandalucia.es/presidencia/po...

35 54 10 mil

10-12 critical points across the region

OVER 11.000 people evacuated

Impacts



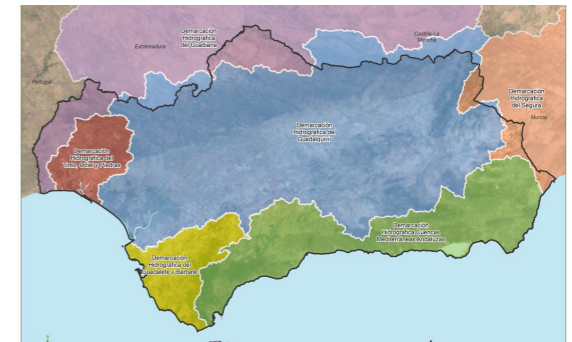
Persistent train of Atlantic storms:

- Continuous heavy rainfall & rapid hydrological deterioration.
- Widespread and sustained saturation of soils, swollen rivers and recurrent flooding.

The severity and persistence of the rainfall EXPECTED led regional authorities to escalate the Andalusian Flood Emergency Plan (PERI) to Operative Status 2 IN ADVANCE, a level reserved for emergencies that exceed regional response capacity and require additional (national) resources, reflecting the exceptional scale and complexity of the event.

Integrated analysis: SAIH Guadalquivir + Hidrosur

- **Heavy and persistent rainfall** triggered widespread flooding
- **Hidrosur (Mediterranean basins):**
 - Fast response
 - Sharp peaks (flash floods)
- **SAIH Guadalquivir (large basin):**
 - Slower but sustained response
 - Strong influence of **reservoir releases**



! Singular Case – Montejaque Dam (Málaga)
• Historic “**failed reservoir**” (built 1924) that had **never filled before**

200 people evacuated

Event evolution

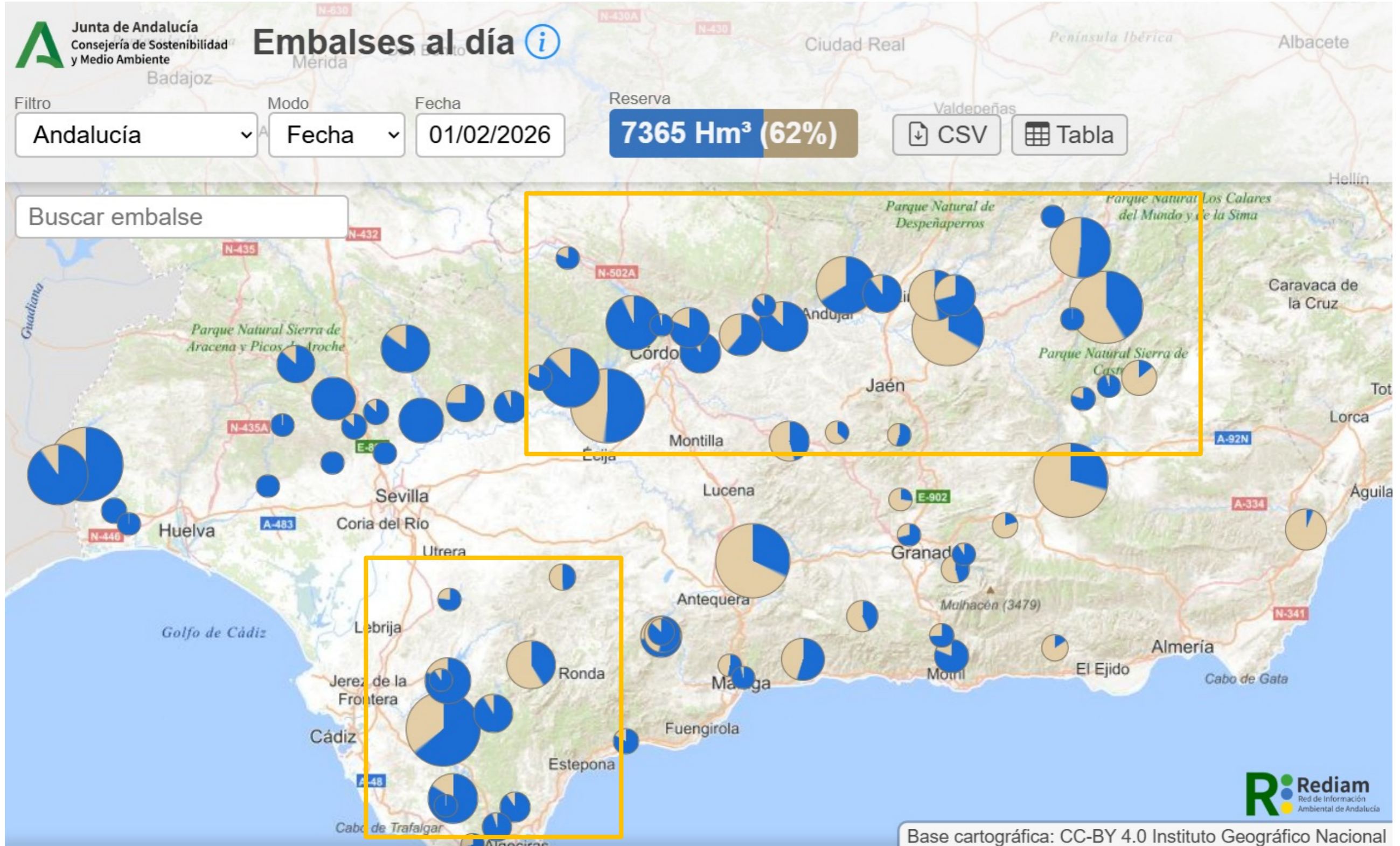
1. **3–4 Feb:** Rapid rise, warning thresholds exceeded
2. **5 Feb:** Peak acceleration (rainfall + dam releases)
3. **6 Feb:** Maximum levels (flood peak)
4. **7 Feb:** Slight decrease but still critical levels

Key insight

Hidrosur captures the **initial rapid runoff**, while Guadalquivir reflects the **accumulated and regulated flood wave** both experimented limitations due to **accumuled volumes**



Impacts. Hydrological evolution



Impacts. Hydrological evolution



Impacts

The screenshot displays the INLINE Platform interface. On the left, a sidebar lists various layers and maps, including 'Flash flood forecast summary (0-120h)', 'Official warnings (1)', 'Meteorological layers (1)', 'Flash flood impact layers (1)', 'Storm impact layers (0-3h) (1)', 'Storm Impact', 'Animated flash flood nowcasting', 'Flash flood past 24-h summary', 'Static layers', 'Exposure (1)', 'Flood hazard and risk maps (9)', 'Flood Area (T500)', and 'Flood Area (T100)'. The main map shows southern Spain with a red shaded area indicating a hazard. A red arrow points from a text box to this area. The top right shows the date '2026-02-04 14' and a filter menu with 'Severe (15)', 'High (12)', and 'Medium (4)' options. A list of affected municipalities is shown on the right, including Andávalo y Condado, Antequera, Aracena, Axarquía, and Campiña gaditana. The bottom of the interface features a 'Forecasting time' slider set to '6-24h' and a row of logos for partner organizations: CRAHI, UPC, ECMWF, FINNISH METEOROLOGICAL INSTITUTE, AEMet, IPMA, EMA, and the Spanish government.

Rain all over the area and in the whole temporal horizon (0-120h)

Red level AEMET + ES-Alert messages

2026-02-04 14

Severe (15) High (12) Medium (4)

Andávalo y Condado
Source: INLINE
Type: INLINE event notification
Hazards: 🌧️ 🏠

Antequera
Source: INLINE
Type: INLINE event notification
Hazards: 🌧️ 🏠

Aracena
Source: INLINE
Type: INLINE event notification
Hazards: 🌧️ 🏠

Axarquía
Source: INLINE
Type: INLINE event notification
Hazards: 🌧️ 🏠

Campiña gaditana
Source: INLINE
Type: INLINE event notification
Hazards: 🌧️ 🏠

Forecasting time: Wed, 2026-02-04 08:00 UTC

Leadtime(h) 0-6h 6-24h 24-48h 48-1

CRAHI UPC ECMWF FINNISH METEOROLOGICAL INSTITUTE AEMet IPMA EMA

Notifications in INLINE platform

[INLINE] - Notifications update



inline@crahi.upc.edu

Para ✔ ANTONIO SANTIAGO GAHETE



03/02/2026

i Si hay problemas con el modo en que se muestra este mensaje, haga clic aquí para verlo en un explorador web.

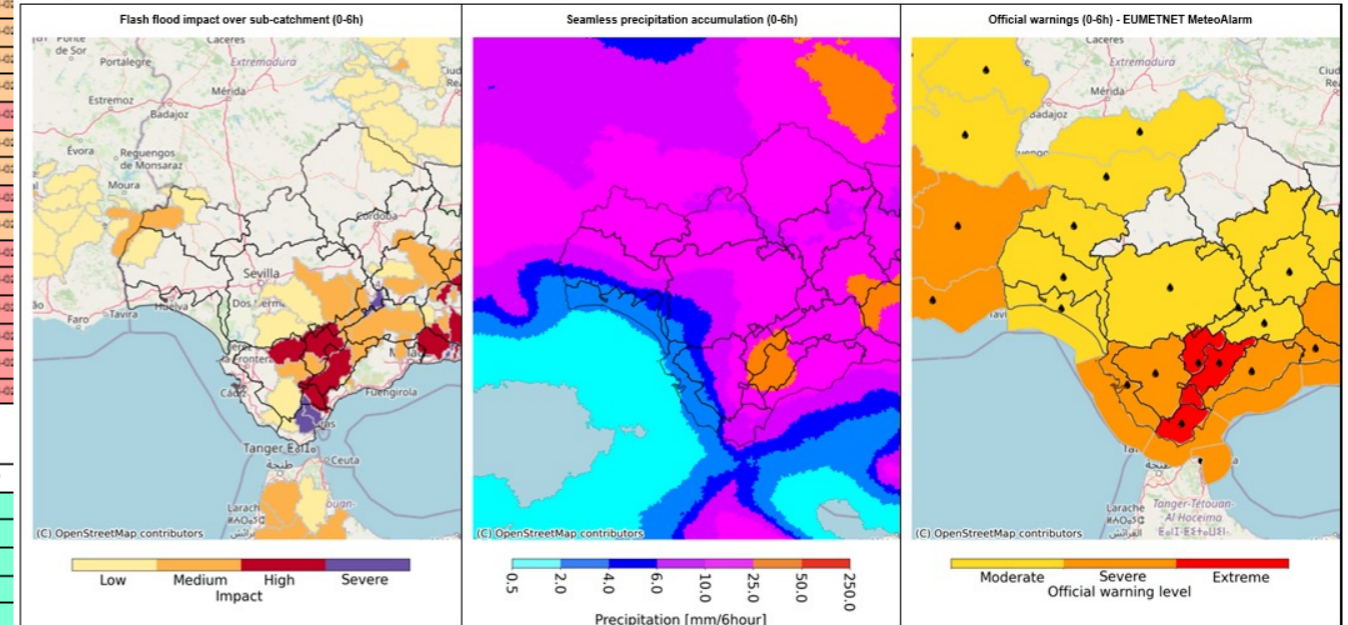
Detailed list of currently active notifications.

Notification ID	Type	Source	Area	Level	Start time	End time
27983195	Flood	Edera product notification (Urban Flood)	Sal y Guadalquivir	3	2026-02-03 22:00 UTC	2026-02-03 22:30 UTC
27983039	Flood	Edera product notification (Flash flood impact)	Sal y Guadalquivir	2	2026-02-04 02:00 UTC	2026-02-04 07:00 UTC
27983042	Flood	Edera product notification (Flash flood impact)	Subbética cordobesa	2	2026-02-04 03:00 UTC	2026-02-04 07:00 UTC
27983043	Flood	Edera product notification (Flash flood impact)	Novada y Aljamas	3	2026-02-04 03:00 UTC	2026-02-04 07:00 UTC
27983044	Flood	Edera product notification (Flash flood impact)	Costa granadina	2	2026-02-04 03:00 UTC	2026-02-04 07:00 UTC
27983045	Flood	Edera product notification (Flash flood impact)	Avanquía	3	2026-02-04 03:00 UTC	2026-02-04 07:00 UTC
27983046	Flood	Edera product notification (Flash flood impact)	Granatona	2	2026-02-04 03:00 UTC	2026-02-04 07:00 UTC
27983047	Flood	Edera product notification (Flash flood impact)	Cacería del Genil	3	2026-02-04 04:00 UTC	2026-02-04 07:00 UTC
27983048	Flood	Edera product notification (Flash flood impact)	Panorío y Almaría Capital	3	2026-02-04 04:00 UTC	2026-02-04 07:00 UTC
27983049	Flood	Edera product notification (Flash flood impact)	Guadix y Baza	2	2026-02-04 05:00 UTC	2026-02-04 07:00 UTC
27982604	Flood	Edera product notification (Flash flood impact)	Costa granadina	3	2026-02-04 12:00 UTC	2026-02-06 00:00 UTC
27982605	Flood	Edera product notification (Flash flood impact)	Cazorla y Segura	2	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982606	Flood	Edera product notification (Flash flood impact)	Valle del Guadalquivir de Jaén	2	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982607	Flood	Edera product notification (Flash flood impact)	Capital y Montes de Jaén	2	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982608	Flood	Edera product notification (Flash flood impact)	Antequera	2	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982594	Flood	Edera product notification (Flash flood impact)	Valle del Almaría y Los Villos	2	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982610	Flood	Edera product notification (Flash flood impact)	Sal y Guadalquivir	2	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982611	Flood	Edera product notification (Flash flood impact)	Avanquía	2	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982612	Flood	Edera product notification (Flash flood impact)	Campaña sevillana	2	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982613	Flood	Edera product notification (Flash flood impact)	Sierra sur de Sevilla	3	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982609	Flood	Edera product notification (Flash flood impact)	Florida	2	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982595	Flood	Edera product notification (Flash flood impact)	Nacimiento y Campo de Tabernas	2	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982596	Flood	Edera product notification (Flash flood impact)	Panorío y Almaría Capital	3	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982597	Flood	Edera product notification (Flash flood impact)	Granatona	2	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982598	Flood	Edera product notification (Flash flood impact)	Campaña gaditana	3	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982599	Flood	Edera product notification (Flash flood impact)	Estrecho	3	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982600	Flood	Edera product notification (Flash flood impact)	Subbética cordobesa	3	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982601	Flood	Edera product notification (Flash flood impact)	Cacería del Genil	3	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982602	Flood	Edera product notification (Flash flood impact)	Guadix y Baza	3	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC
27982603	Flood	Edera product notification (Flash flood impact)	Novada y Aljamas	3	2026-02-04 12:00 UTC	2026-02-06 06:00 UTC

**ON 3rd FEB OR EVEN 2nd FEB
NOTIFICATIONS FOR
04/02/2026**

Notifications Update (forecasting time: 2026-02-04 at 10:00 UTC)

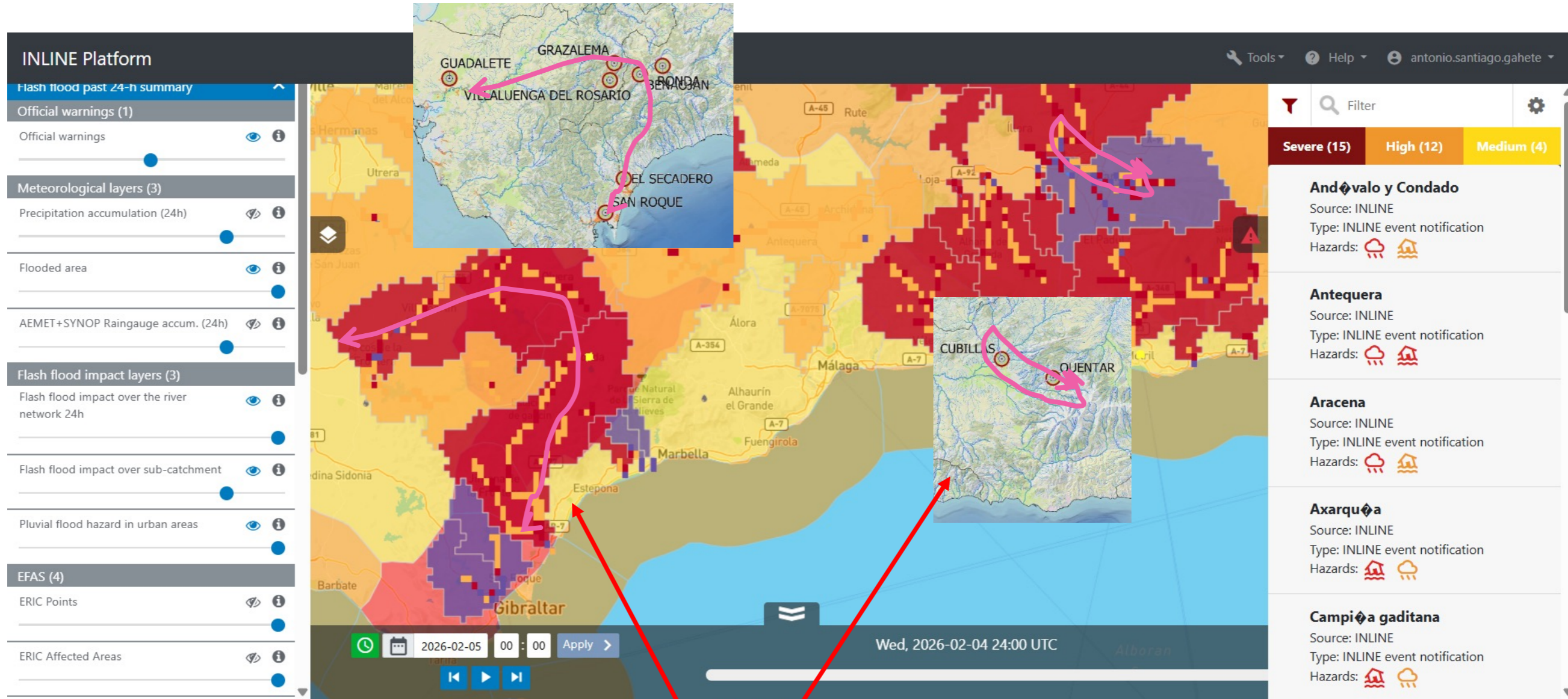
This email provides you with the latest INLINE notifications related to your area. For more information you can access our [platform](#).



EFAS notifications:

Forecast Date	River	Basin	Country
2026-02-03 00:00	Genil	Guadalquivir	Spain
2026-02-02 12:00	Barbate	Barbate	Spain
2026-02-02 12:00	Guadalquivir	Guadalquivir	Spain
2026-02-02 12:00	Andarax	Andarax	Spain
2026-02-02 12:00	Veiza	Coastal	Spain
2026-02-02 12:00	Fardos	Guadalquivir	Spain
2026-02-02 12:00	Genil	Guadalquivir	Spain
2026-01-31 12:00	Cacín	Guadalquivir	Spain
2026-01-29 00:00	Riviera de Huelva	Guadalquivir	Spain

Impacts in INLINE platform



**HIGHLIGHTS OF DIFFERENT
INLINE PRODUCTS OVER
CONFLICTIVE AREAS**

Impacts in INLINE platform

The image displays the INLINE platform interface. On the left, a sidebar lists various map layers, with 'Flash flood past 24-h summary' and 'Static layers' highlighted. The main map area shows a satellite view of a coastal region with overlaid flood hazard maps in red, orange, and yellow. A date and time selector at the bottom of the sidebar shows '2026-02-05 14:00'. An inset map in the bottom right corner, titled 'Copernicus Emergency Management System', shows 'Satellite observed flood areas' in red. A yellow box with a red border and the text 'FLOOD PRONE AREAS ACTIVATED' is positioned over the bottom left of the main map area, with a red arrow pointing to the flood hazard map.

**FLOOD PRONE AREAS
ACTIVATED**

Satellite observed flood areas

Impacts



- Almost 12.000 incidents in total (112 incidents)
 - Over 11.000 people evacuated
 - More than 150 roads blocked
 - **1 casualty**