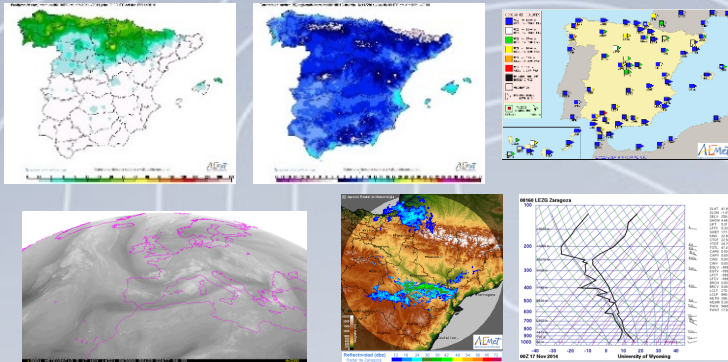
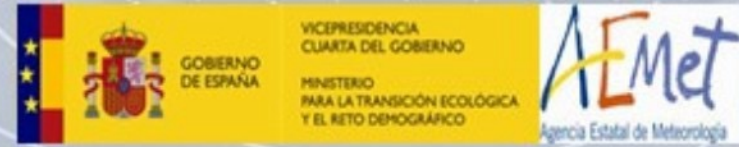
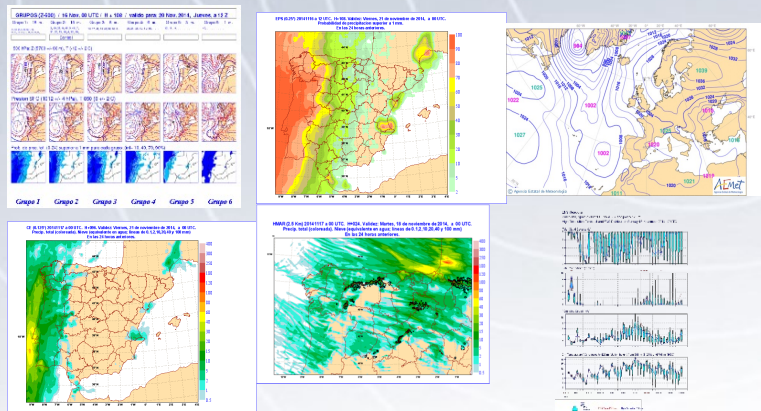
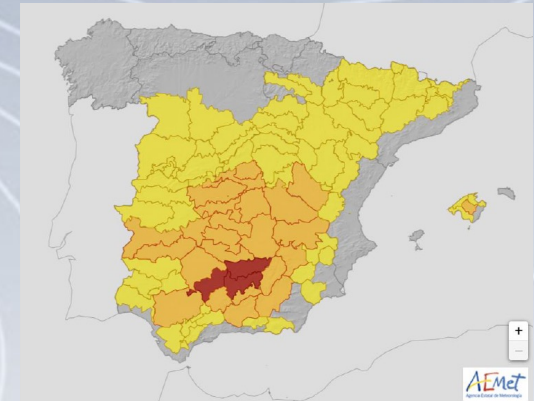


- Forecasting process



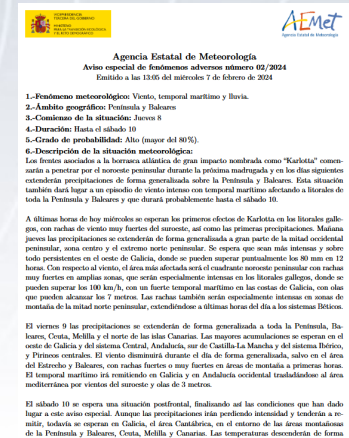
## Added value of forecaster



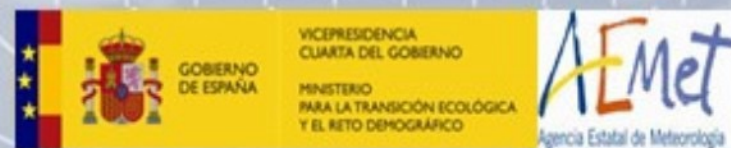
## Partial representations of the atmosphere

- Vigilancia continua de las observaciones (incluidos datos de *crowd-sourcing*)
- Análisis del comportamiento del modelo frente a las observaciones.
- Conocimiento de los errores sistemáticos de los modelos.
- Enfoque probabilístico: análisis y comunicación de la incertidumbre.
- Buen conocimiento de la orografía, climatología y tipos de tiempo regionales.
- Ejercicio de síntesis y comunicación con el usuario.

## Forecasting products and warnigs



# Introduction



- Artículo 8.a) del **Real Decreto 186/2008**, de 8 de febrero, por el que se aprueba el **Estatuto de la Agencia Estatal de Meteorología**:

## **Artículo 8. Competencias y funciones.**

En relación con el objeto de la Agencia Estatal de Meteorología al que se refiere el artículo 1.2 de este Estatuto, corresponde a la misma, para la adecuada prestación de los servicios meteorológicos y climatológicos y el apoyo a las políticas públicas y actividades privadas que tiene encomendados, el ejercicio de las siguientes competencias y funciones:

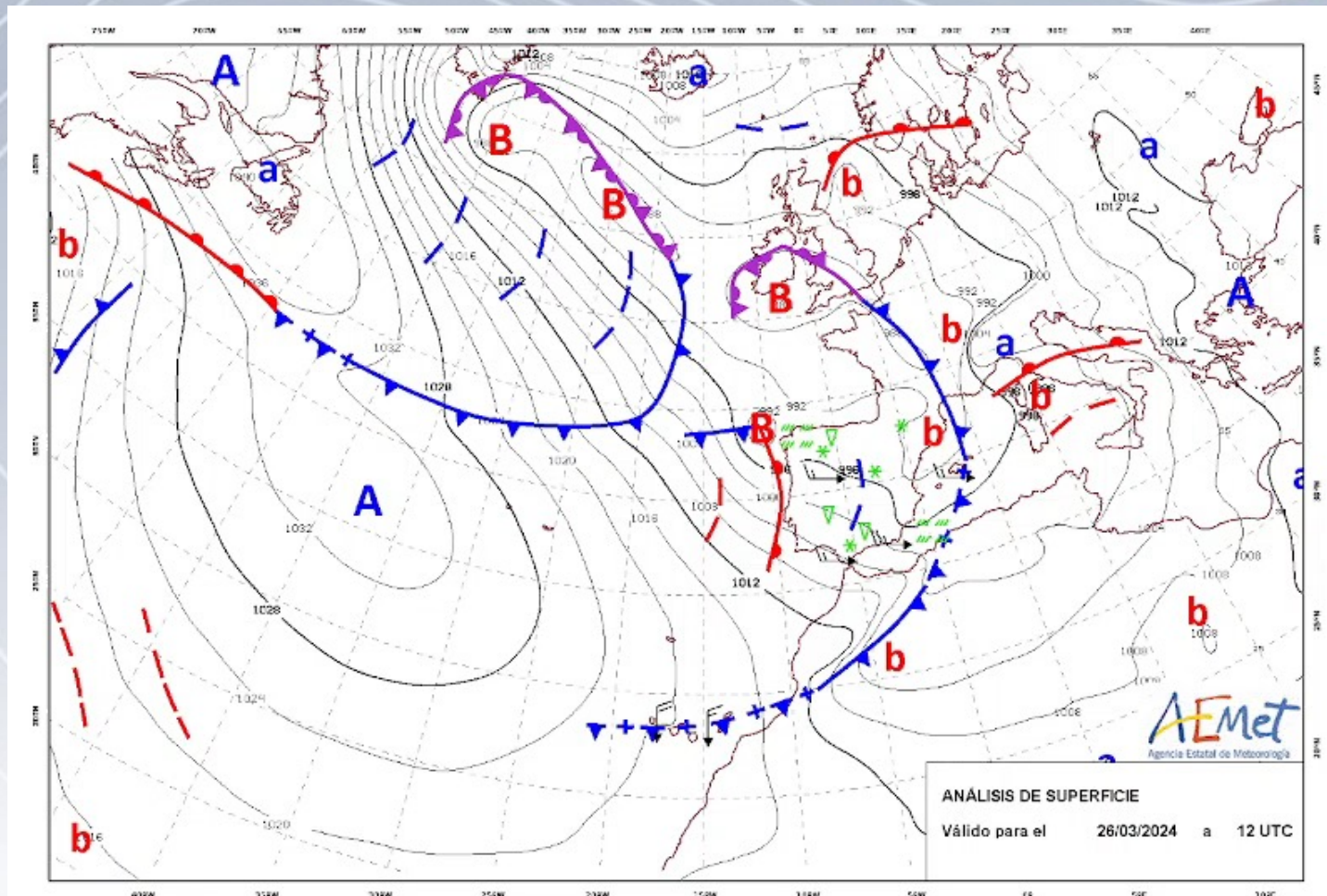
- a) La elaboración, el suministro y la difusión de las informaciones meteorológicas y predicciones de interés general para los ciudadanos en todo el ámbito nacional, y la emisión de avisos y predicciones de fenómenos meteorológicos que puedan afectar a la seguridad de las personas y a los bienes materiales.
- b) La provisión de servicios meteorológicos de apoyo a la navegación aérea y marítima necesarios para contribuir a la seguridad, regularidad y eficiencia del tránsito aéreo y a la seguridad del tráfico marítimo.
- c) El suministro de la información meteorológica necesaria para las Fuerzas Armadas, la defensa nacional y para las Fuerzas y Cuerpos de Seguridad del Estado, así como la prestación del apoyo meteorológico adecuado para el cumplimiento de sus misiones.

**Plan Nacional de Predicción y Vigilancia  
de Fenómenos Meteorológicos Adversos:  
METEOALERTA**



# Storm Nelson

27th - 31st March 2024



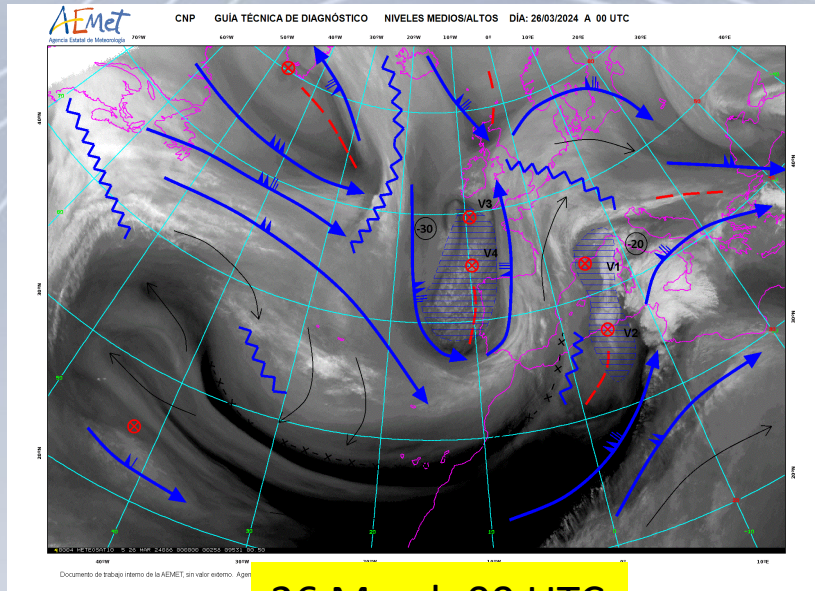
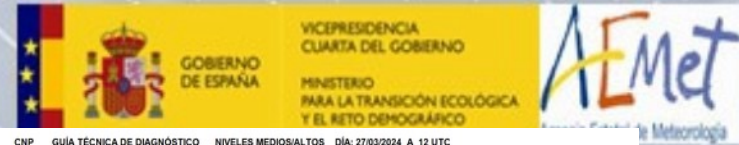
©AEMET. Autorizado el uso de la información y su reproducción citando a AEMET como autora de la misma.

Evolución de Nelson entre las 12 UTC del día 26 de marzo y la misma hora del 1 de abril (análisis cada 12 horas).

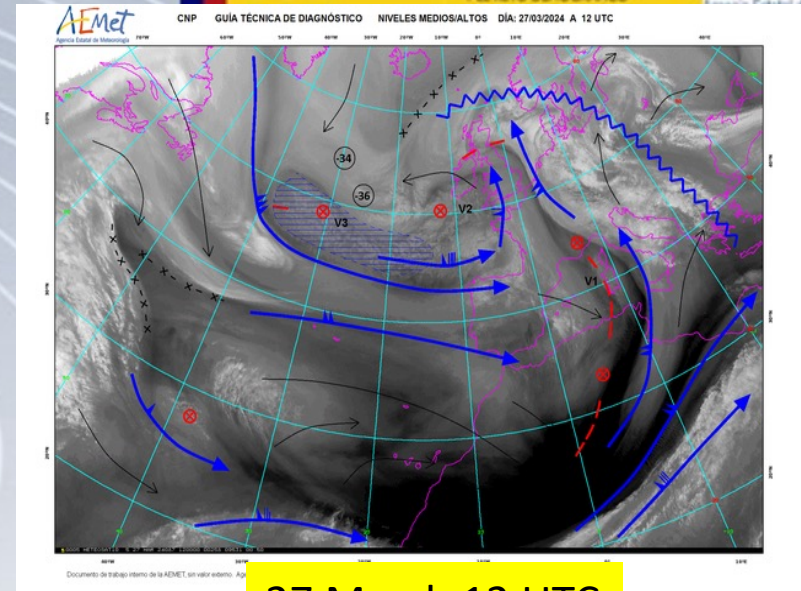


# Storm Nelson

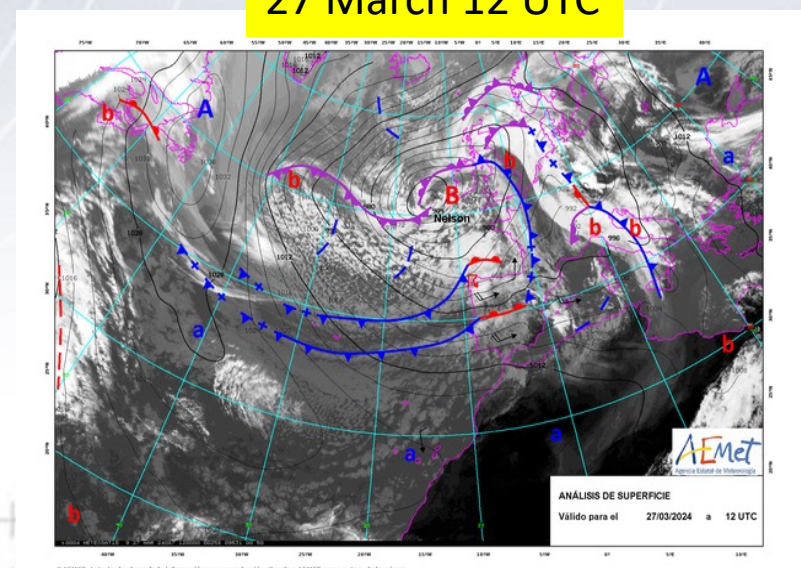
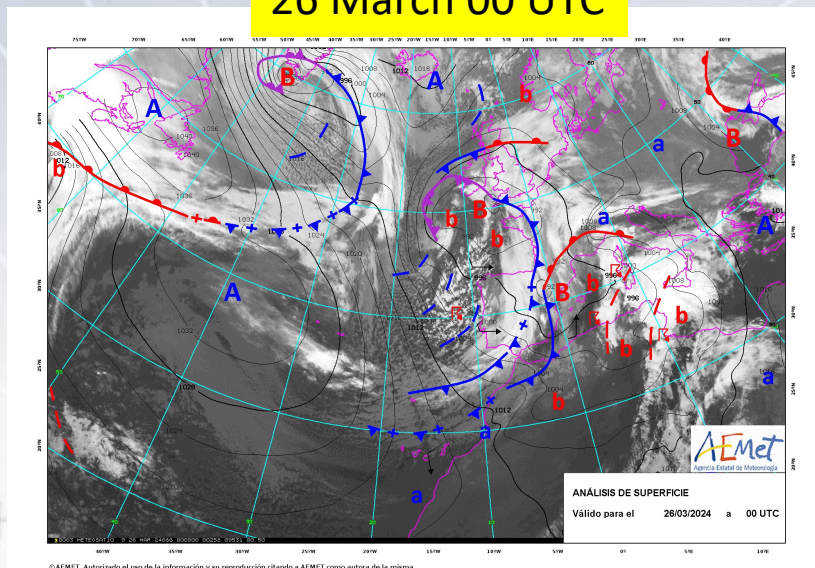
EVOLUTION – WARNINGS – IMPACT



26 March 00 UTC



27 March 12 UTC

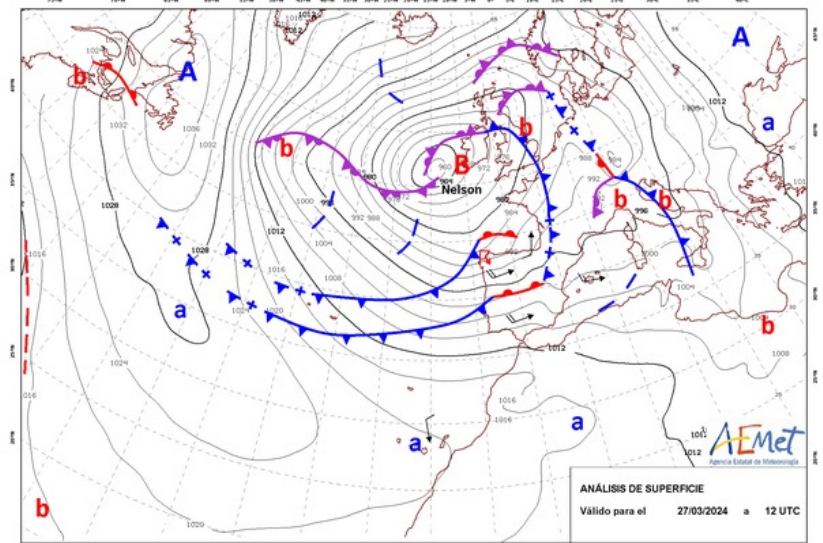
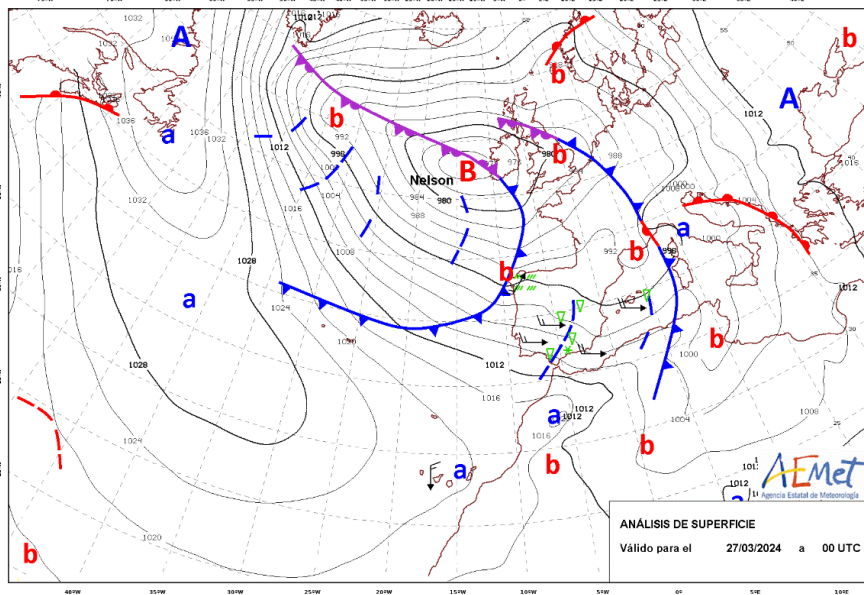
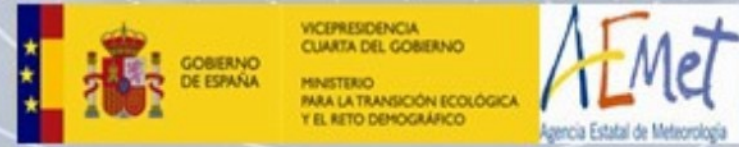




# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

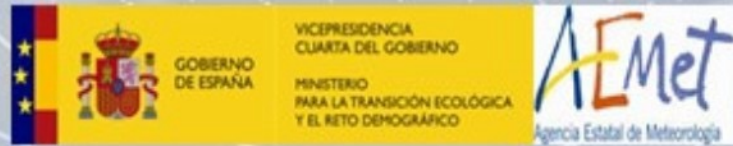
27th March



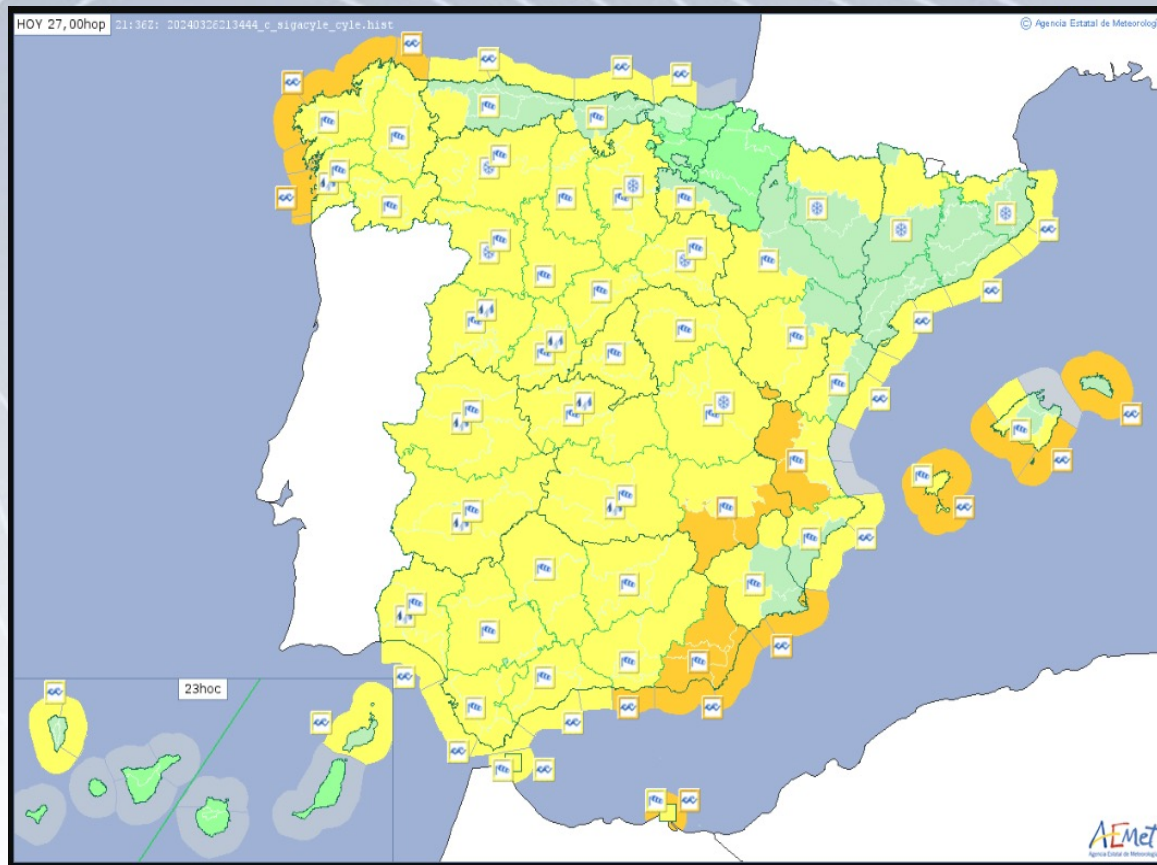
©AEMET. Autorizado el uso de la información y su reproducción citando a AEMET como autora de la misma

# Storm Nelson

EVOLUTION – WARNINGS – IMPACT



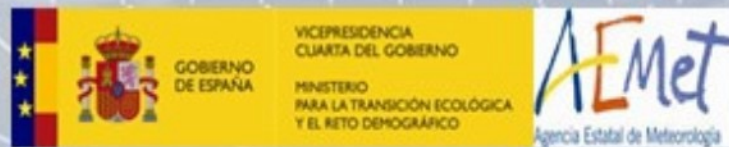
## 27th March





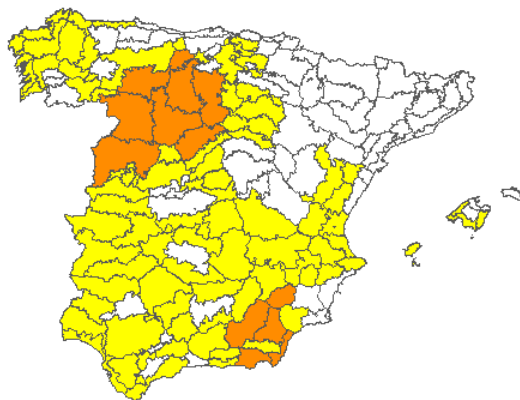
# Storm Nelson

EVOLUTION – WARNINGS – IMPACT



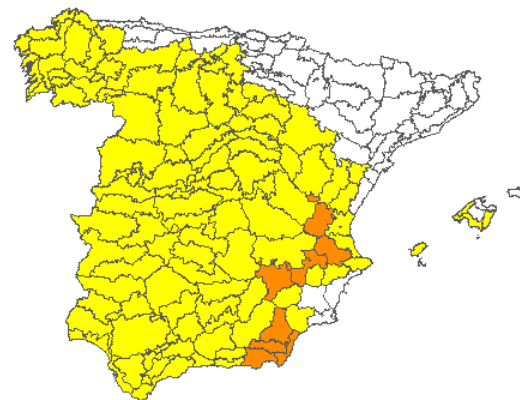
## 27th March – Wind Gust

Wind Gust  
Observed



27th March

Wind Gust  
Warnings D-0



27th March

Wind Gust  
Warnings D-1



27th March

Wind Gust  
Warnings D-2

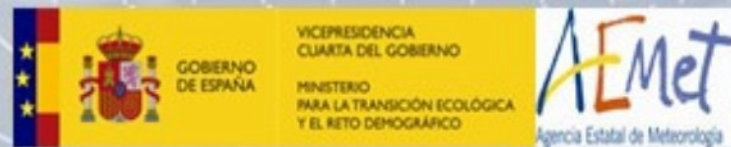


27th March

# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 27th March – Precipitation in 12h



Precipitation in 12h

Observed



27th March

Precipitation in 12h

Warnings D-0



27th March

Precipitation in 12h

Warnings D-1



27th March

Precipitation in 12h

Warnings D-2



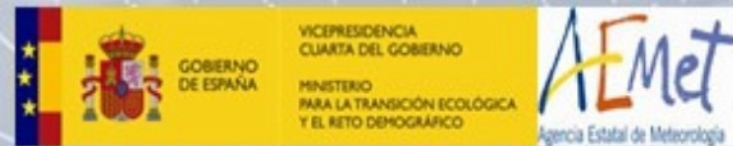
27th March



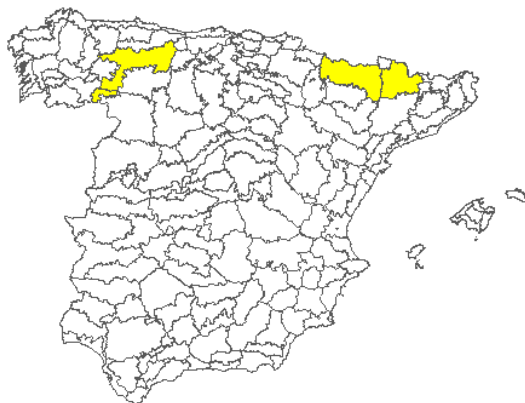
# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 27th March – Snow



Snow  
Observed



27th March

Snow  
Warnings D-0



27th March

Snow  
Warnings D-1



27th March

Snow  
Warnings D-2

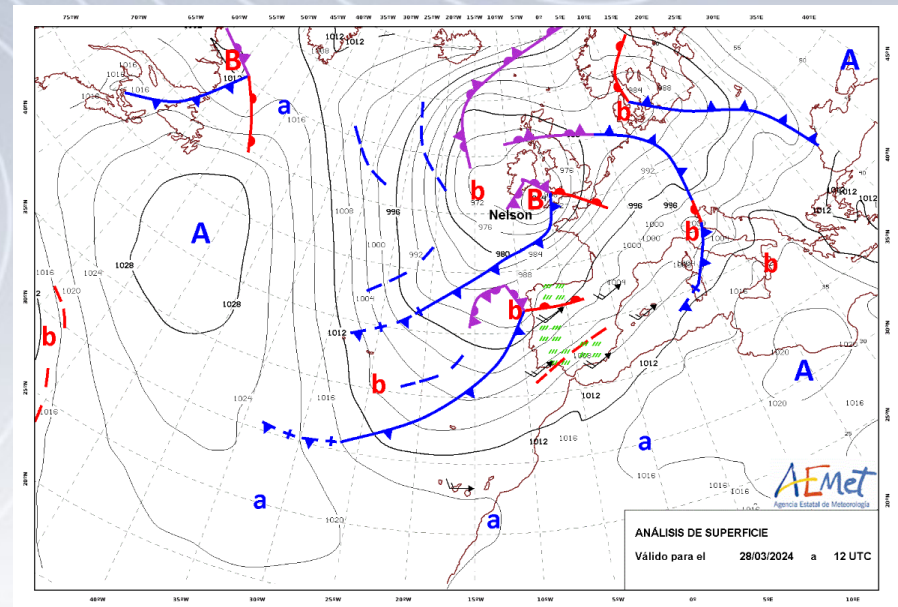
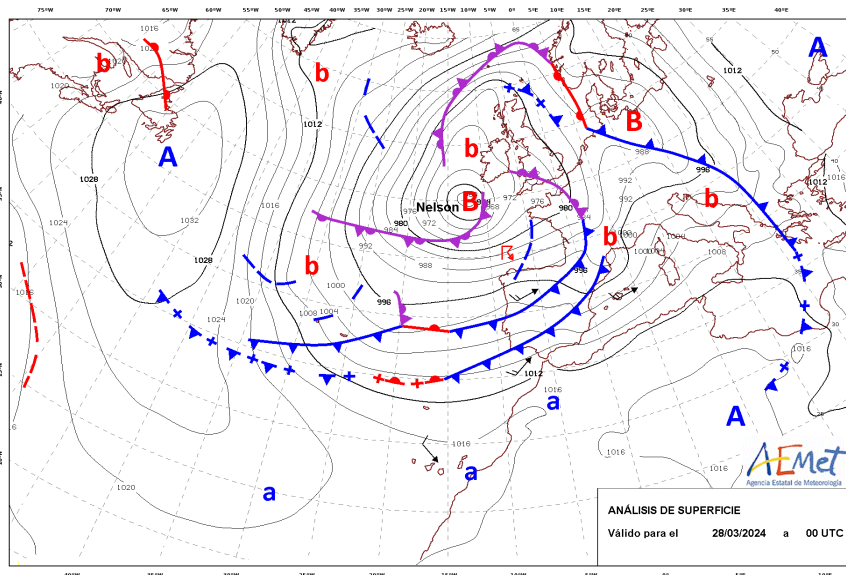
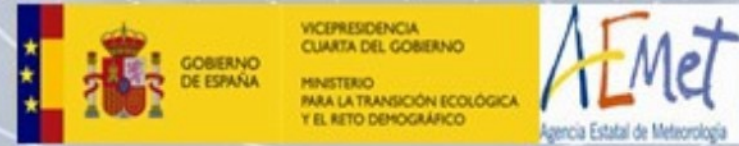


27th March

# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

28th March





# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 28th March

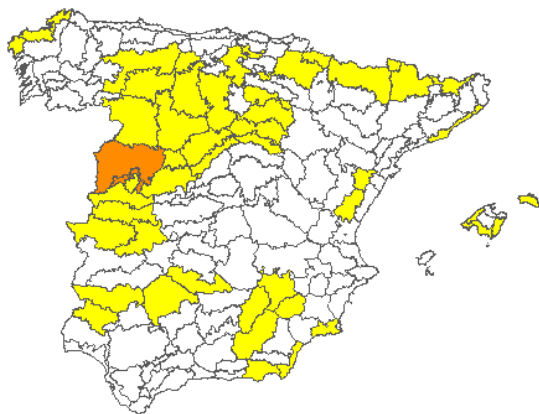


# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 28th March – Wind Gust

Wind Gust  
Observed



28th March

Wind Gust  
Warnings D-0



28th March

Wind Gust  
Warnings D-1



28th March

Wind Gust  
Warnings D-2



28th March



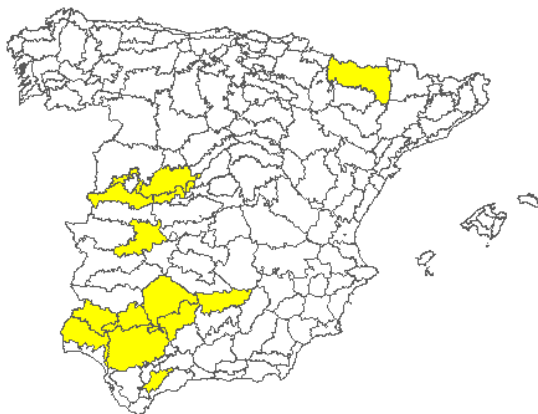
# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 28th March – Precipitation in 12h

Precipitation in 12h

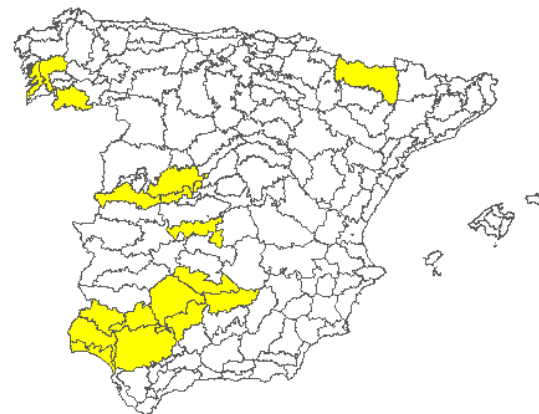
Observed



28th March

Precipitation in 12h

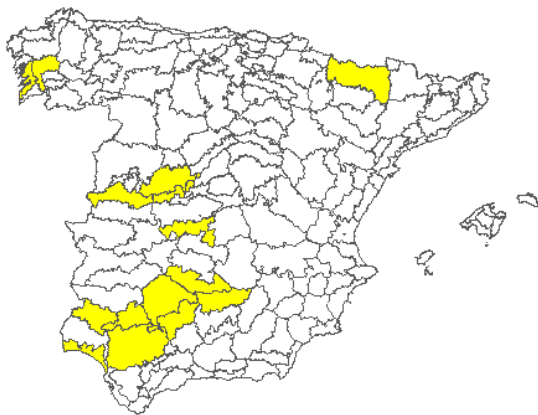
Warnings D-0



28th March

Precipitation in 12h

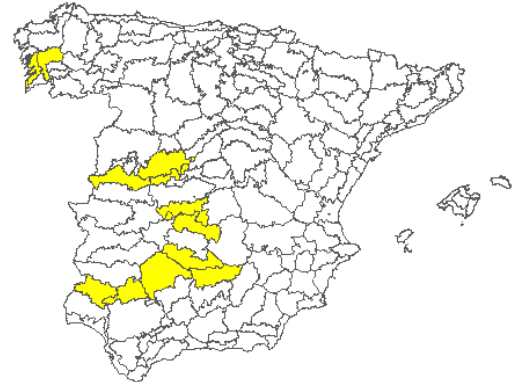
Warnings D-1



28th March

Precipitation in 12h

Warnings D-2

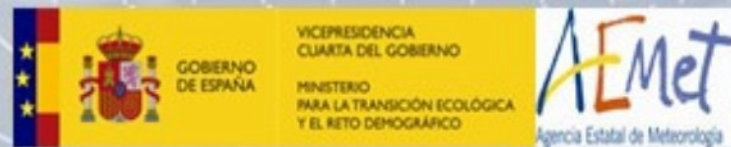


28th March

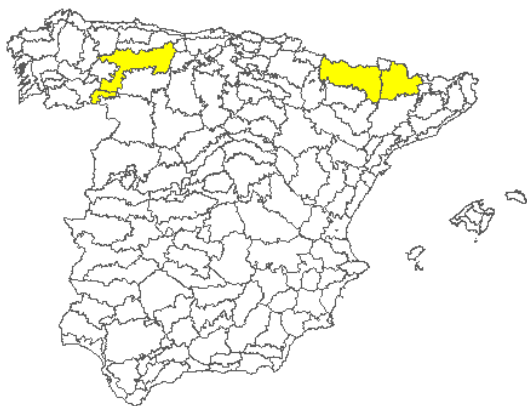
# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 28th March – Snow



Snow  
Observed



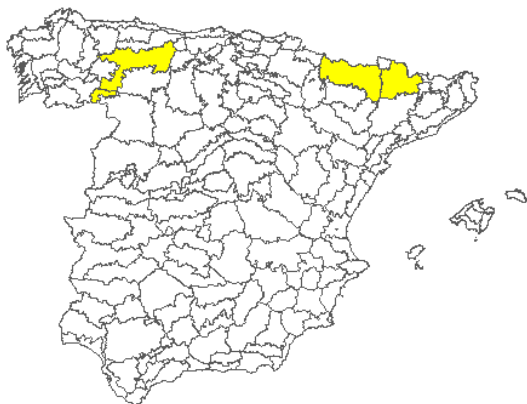
28th March

Snow  
Warnings D-0



28th March

Snow  
Warnings D-1



28th March

Snow  
Warnings D-2

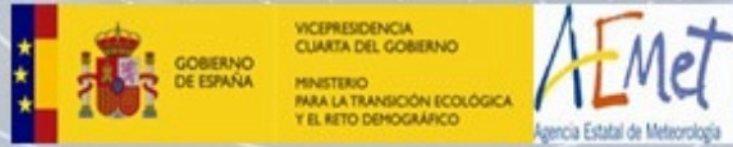


28th March

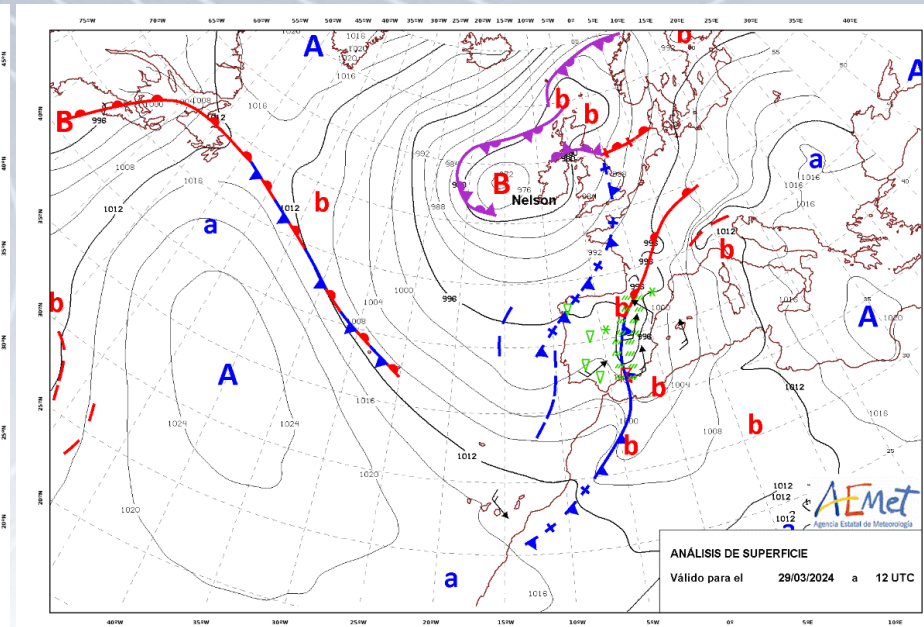
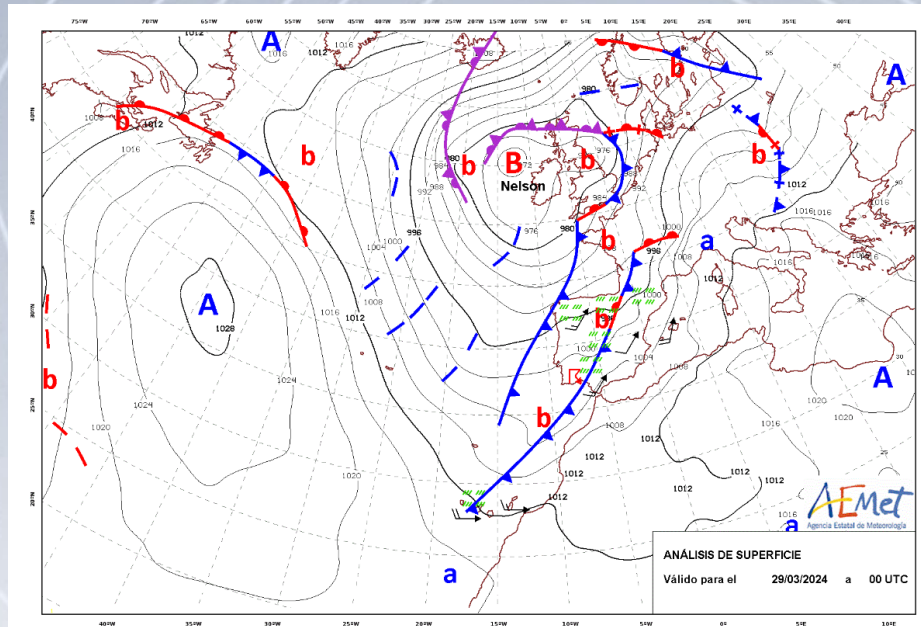


# Storm Nelson

EVOLUTION – WARNINGS – IMPACT



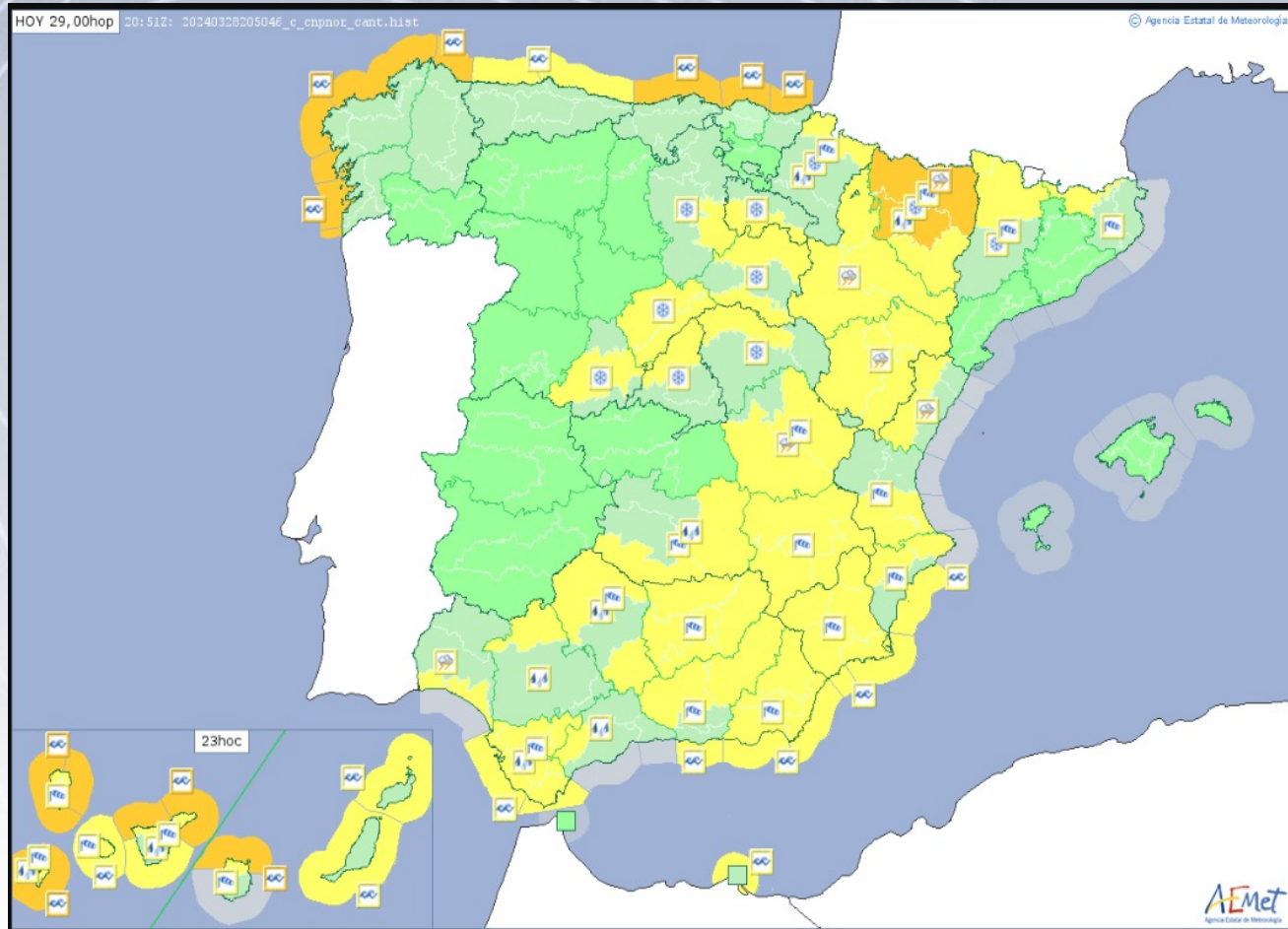
## 29th March



# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 29th March

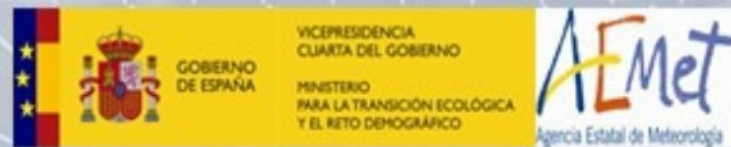




# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 29th March – Wind Gust



Wind Gust  
Observed



29th March

Wind Gust  
Warnings D-0



29th March

Wind Gust  
Warnings D-1



29th March

Wind Gust  
Warnings D-2

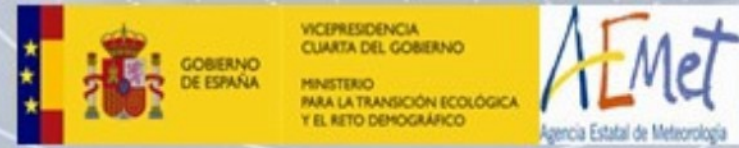


29th March

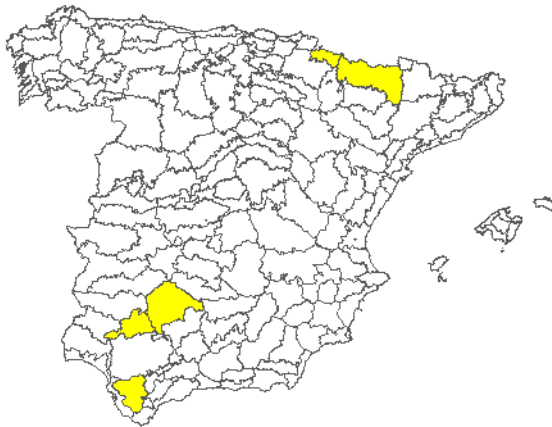
# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 29th March– Precipitation in 1h

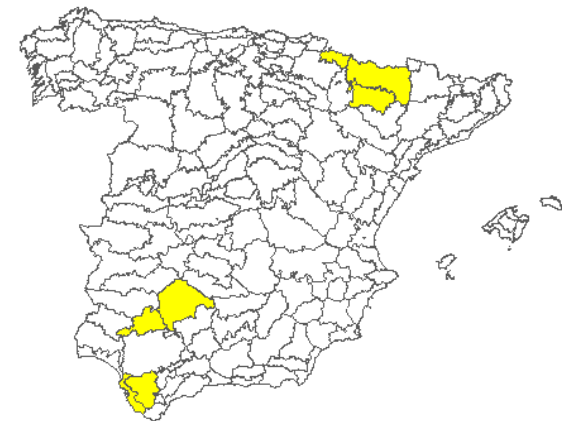


Precipitation in 1h  
Observed



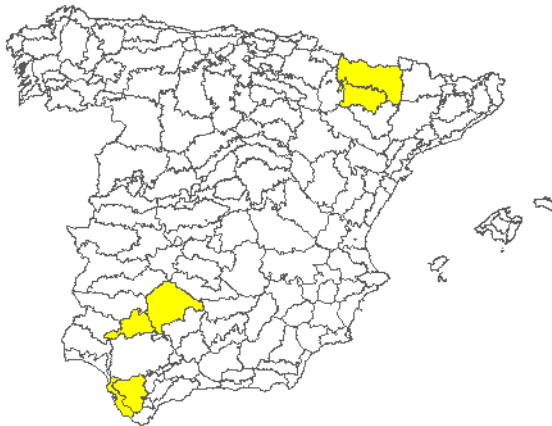
29th March

Precipitation in 1h  
Warnings D-0



29th March

Precipitation in 1h  
Warnings D-1



29th March

Precipitation in 1h  
Warnings D-2



29th March



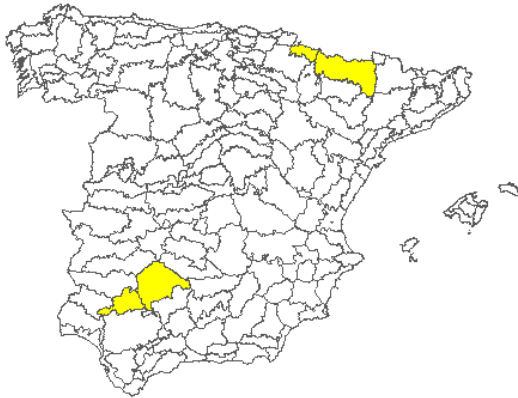
# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 29th March– Precipitation in 12h

Precipitation in 12h

Observed



29th March

Precipitation in 12h

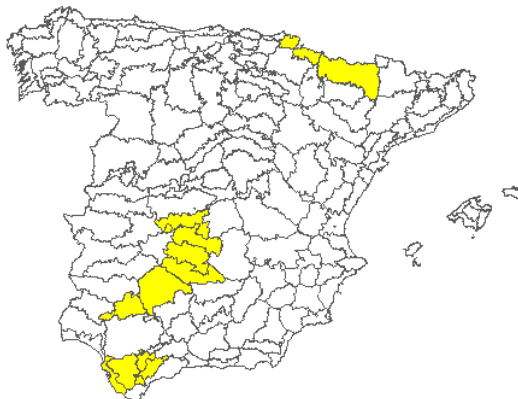
Warnings D-0



29th March

Precipitation in 12h

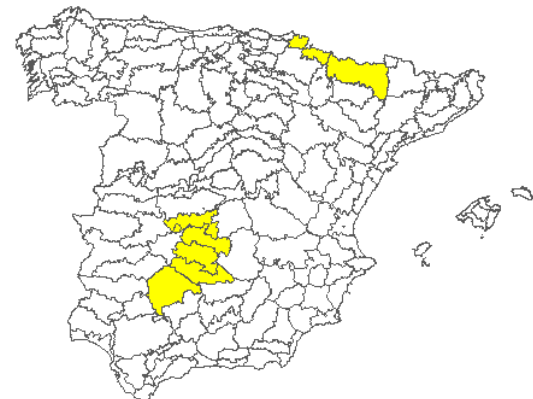
Warnings D-1



29th March

Precipitation in 12h

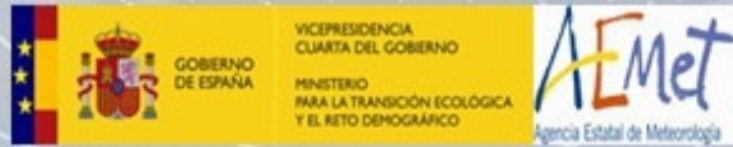
Warnings D-2



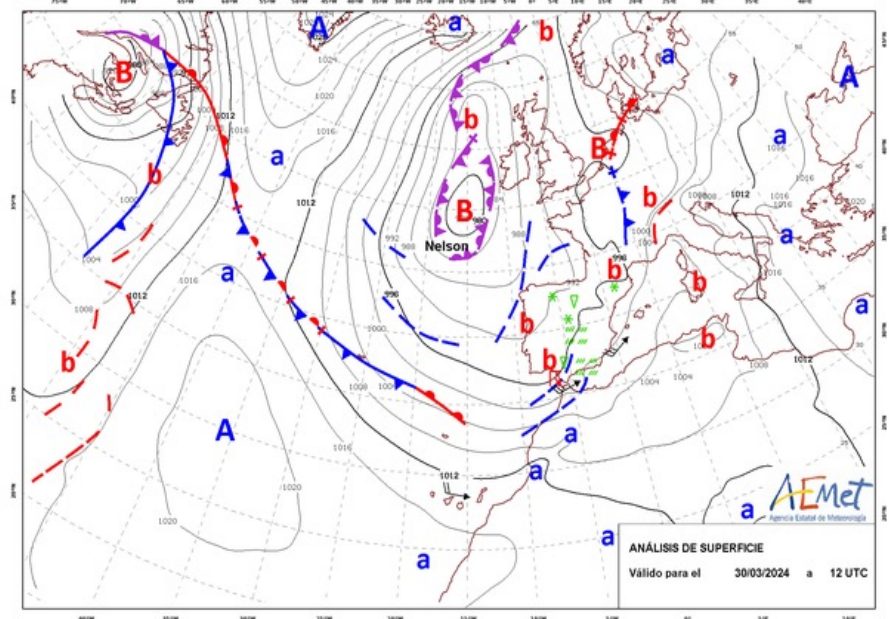
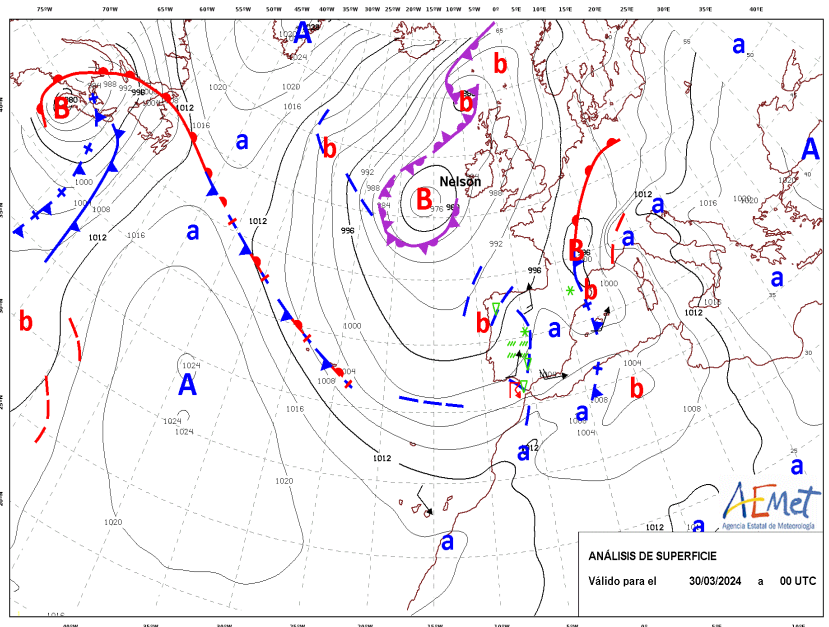
29th March

# Storm Nelson

EVOLUTION – WARNINGS – IMPACT



## 30th March





# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

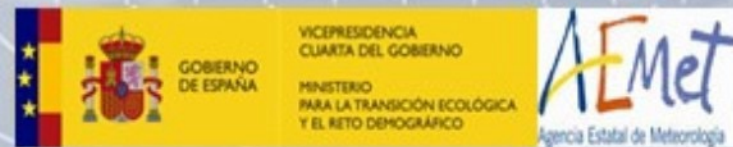
30th March



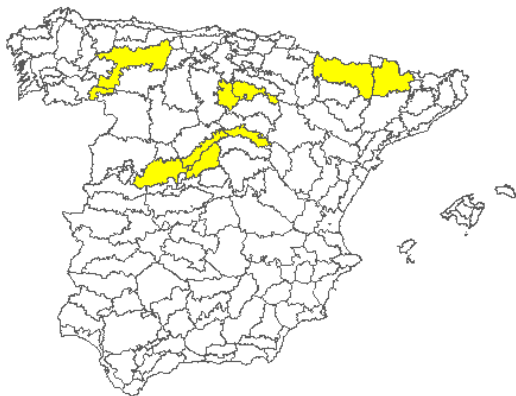
# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 30th March - Snow

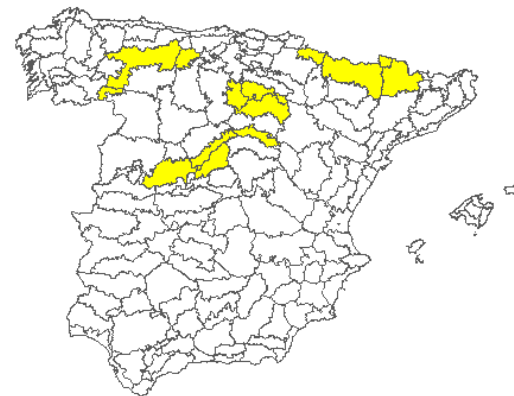


Snow  
Observed



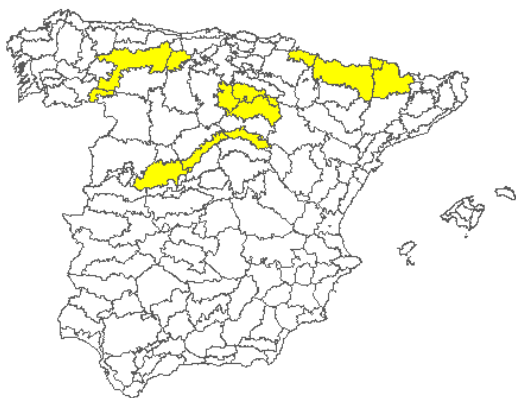
30th March

Snow  
Warnings D-0



30th March

Snow  
Warnings D-1



30th March

Snow  
Warnings D-2



30th March



# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 30th March– Precipitation in 1h

Precipitation in 1h

Observed



30th March

Precipitation in 1h

Warnings D-0



30th March

Precipitation in 1h

Warnings D-1



30th March

Precipitation in 1h

Warnings D-2

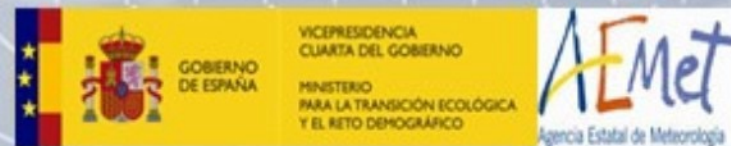


30th March

# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 30th March– Precipitation in 12h



Precipitation in 12h

Observed



30th March

Precipitation in 12h

Warnings D-0



30th March

Precipitation in 12h

Warnings D-1



30th March

Precipitation in 12h

Warnings D-2

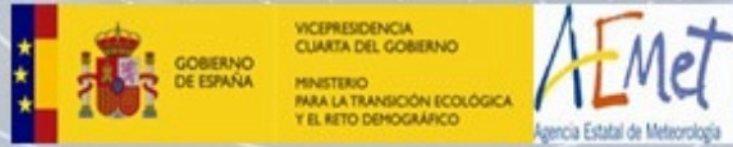


30th March

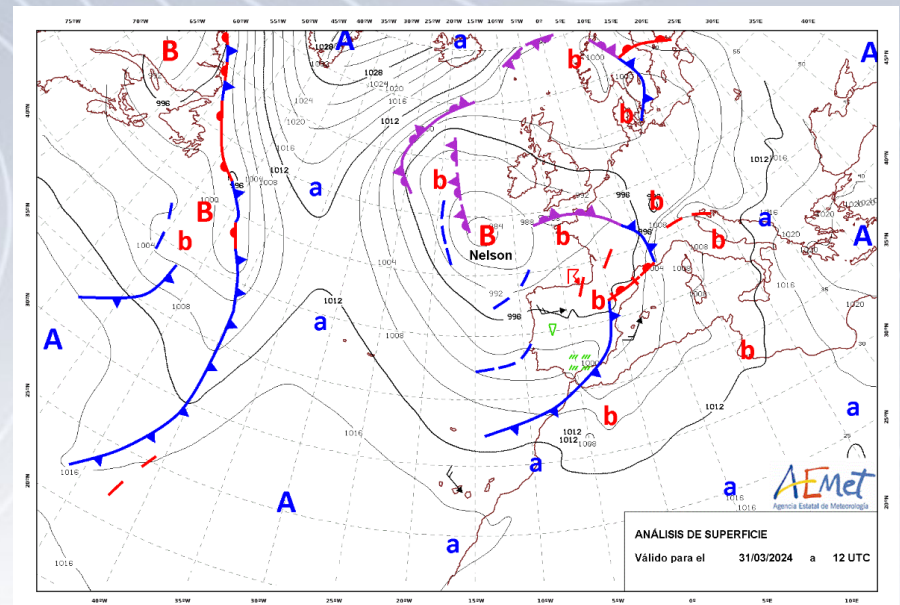
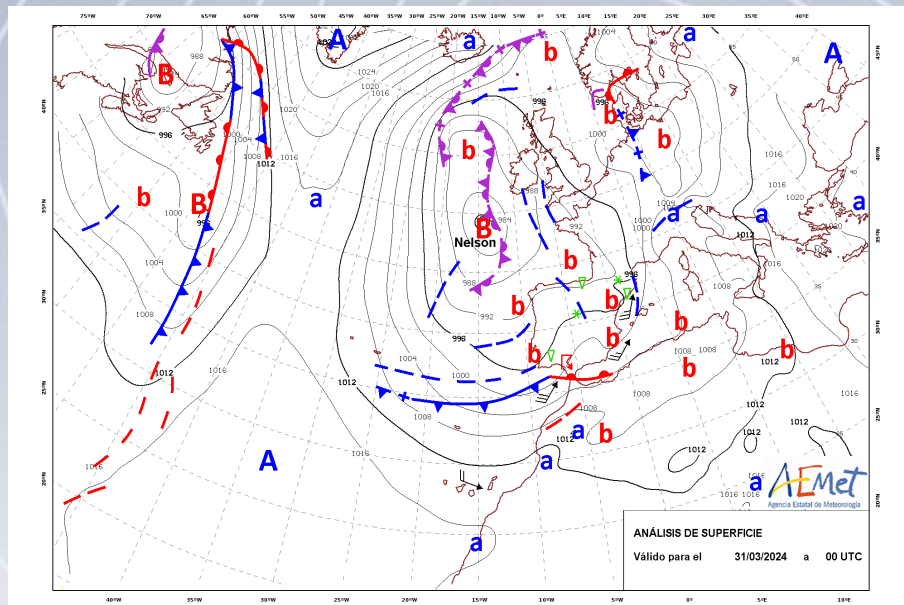


# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

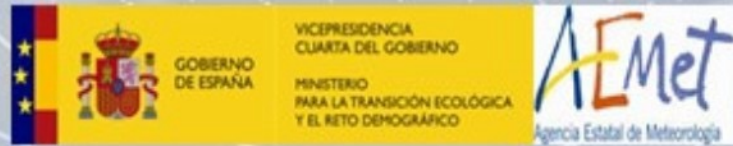


## 31st March

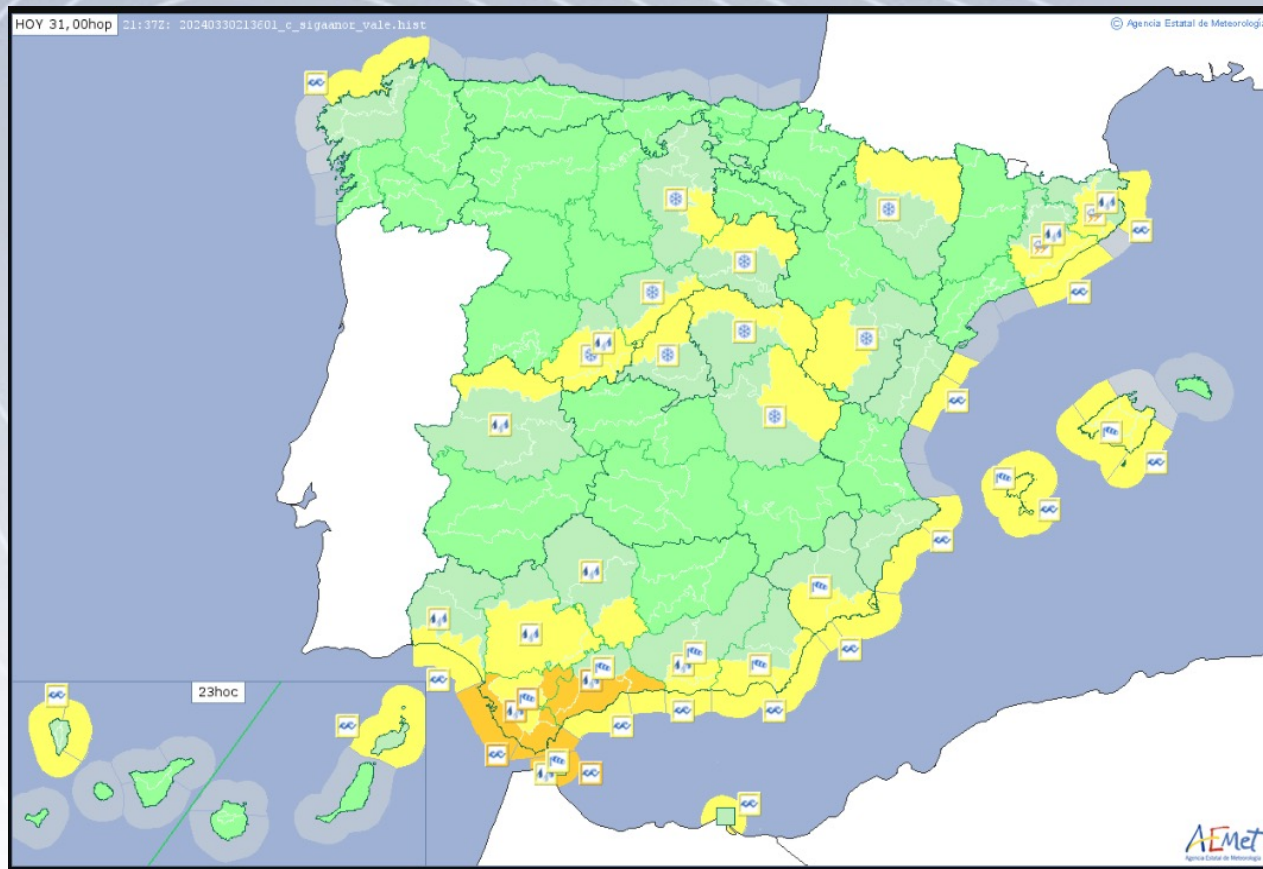


# Storm Nelson

EVOLUTION – WARNINGS – IMPACT



## 31st March

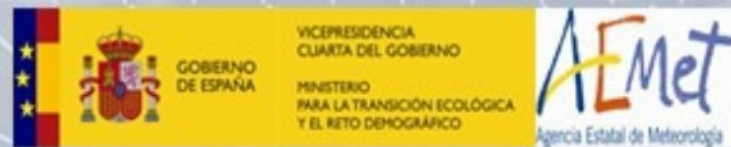




# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 31st March – Wind Gust



Wind Gust  
Observed



31st March

Wind Gust  
Warnings D-0



31st March

Wind Gust  
Warnings D-1



31st March

Wind Gust  
Warnings D-2

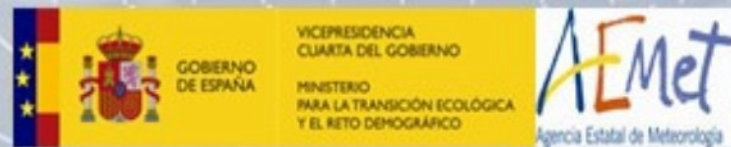


31st March

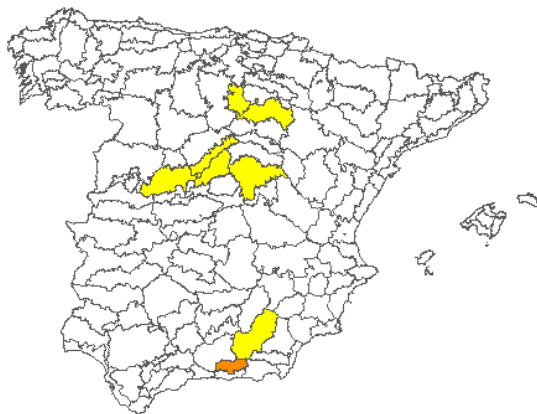
# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 31st March - Snow

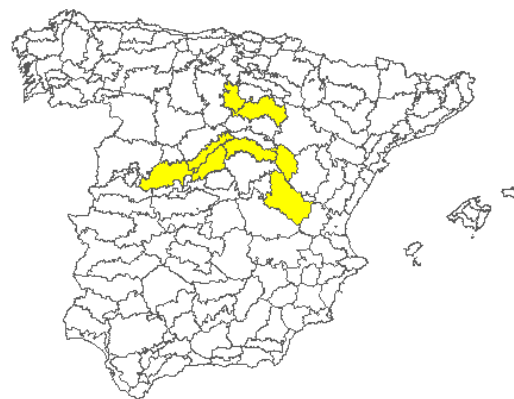


Snow  
Observed



31st March

Snow  
Warnings D-0



31st March

Snow  
Warnings D-1



31st March

Snow  
Warnings D-2

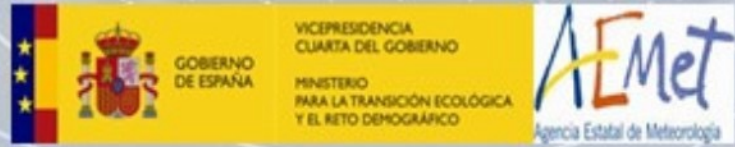


31st March

# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 31st March – Precipitation in 1h



Precipitation in 1h  
Observed



31st March

Precipitation in 1h  
Warnings D-0



31st March

Precipitation in 1h  
Warnings D-1



31st March

Precipitation in 1h  
Warnings D-2



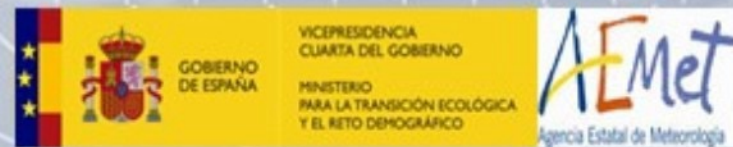
31st March



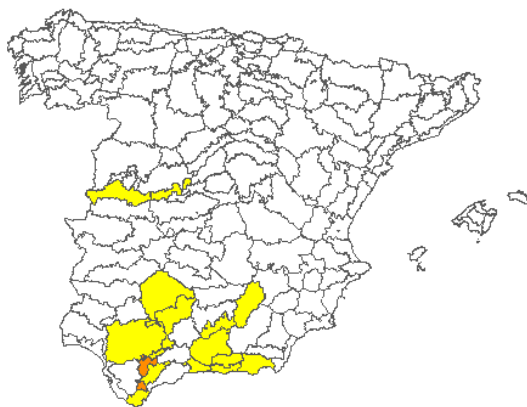
# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

## 31st March– Precipitation in 12h

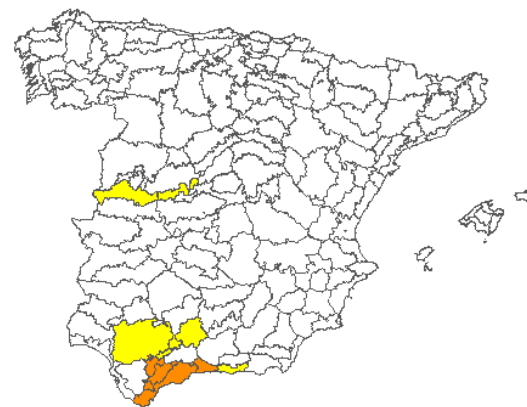


Precipitation in 12h  
Observed



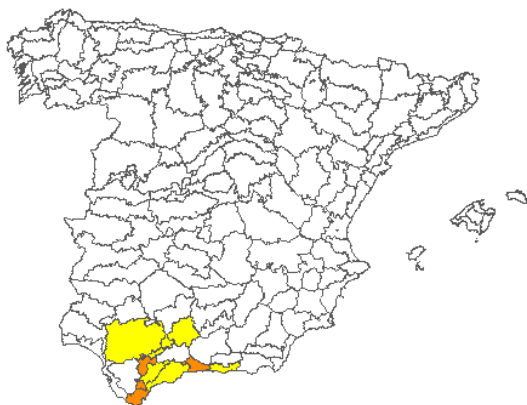
31st March

Precipitation in 12h  
Warnings D-0



31st March

Precipitation in 12h  
Warnings D-1



31st March

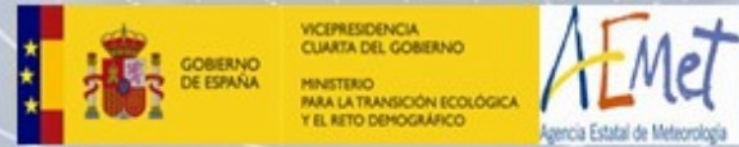
Precipitation in 12h  
Warnings D-2



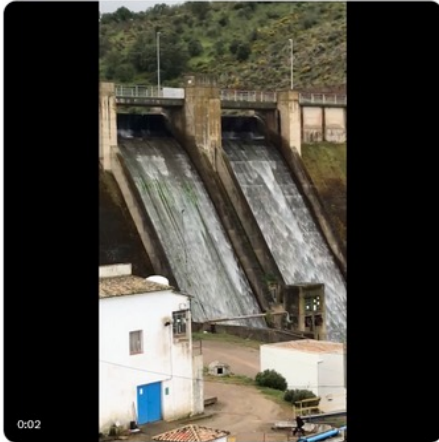
31st March

# Storm Nelson

## EVOLUTION – WARNINGS – IMPACT



**Consorcio Promedio** @PromedioBadajoz · 27 mar.  
La presa de La Albuera del Castellar de Zafra desembalsando esta mañana 🌧️  
@AytoZafra @DipdeBadajoz #BorrascaNelson



**Andrés Tomé** reposted  
**Andrés Tomé** @tomeandres · 28 mar.  
Ya son varios los árboles caídos en las inmediaciones de la Villa Ducal de Lerma. La borrasca de alto impacto Nelson dejando estas imágenes en plena Semana Santa.



**Cova Tomé** @TomeCova · 28 mar.  
Dos víctimas mortales en Asturias por la borrasca Nelson. Arrastradas por la mar en San Esteban y Cuideiru. Por favor cuidarlos. La mar es maravillosa, pero también brava.  
#Asturias #Asturies #BorrascaNelson



**Dir. Gral. Tráfico** @DGtes · 2h  
Por nieve, varias vías principales afectadas:

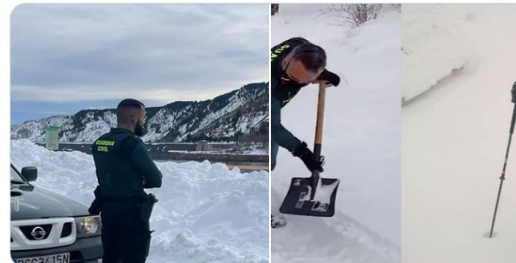
- Transitable con precaución.
- Madrid, A-1 en Somosierra.
- Segovia, A-1 en Santo Tomé del Puerto.
- Segovia, AP-6 y AP-61 en El Espinar.



**IGC NACIONAL** @\_IGC\_ · 28 mar.  
La borrasca 'Nelson',  
5 carreteras de la red secundaria cortadas por #nieve  
16 Obligatorio el uso de cadenas,  
3 Prohibido paso a camiones 🚚

Consulta la información actualizada del #tráfico  
infocar.dgt.es/etrafic/

@DGtes



**RTVEcastillalamancha** @RTVEclm · 28 mar.  
Así baja el río Tajo en el Salto de Poveda de la Sierra en Guadalajara debido a las últimas lluvias #BorrascaNelson

Imágenes que nos envía nuestra compañera @aureagcordero desde el Alto Tajo 🌧️

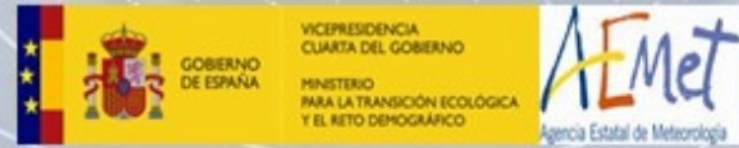
@telediarior\_tve @radio5\_me @me @rtvenoticias





# Storm Nelson

## EVOLUTION – WARNINGS – IMPACT





# Storm Nelson

EVOLUTION – WARNINGS – IMPACT

