



Making Ireland Weather
and Climate Prepared

Flood Forecast Briefing

Kevin Sheehy

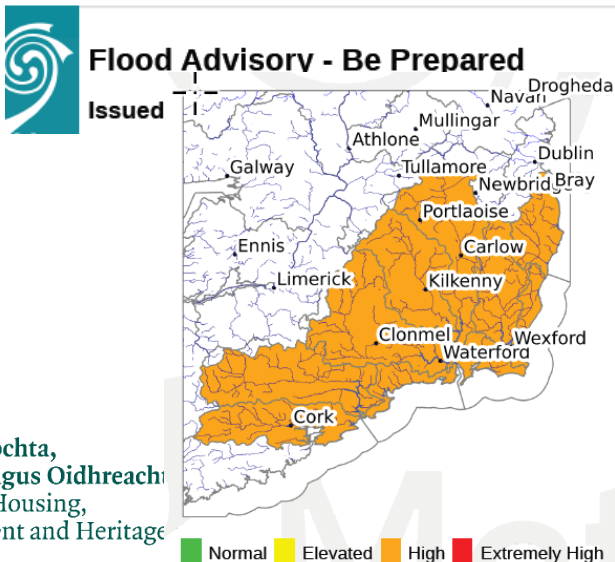


An Roinn Tithíochta,
Rialtais Áitiúil agus Oidhreachta
Department of Housing,
Local Government and Heritage





- **River levels – HIGH**
 - Rivers running low, high accumulations, rapid response in smaller catchments
 - Flood Advisory Issued
- **Surface Water levels – HIGH**
 - High Accumulations south and southeast
- **Coastal levels – ELEVATED**
 - Entering spring tides, moderate to high surge, on-shore gales, significant wave action





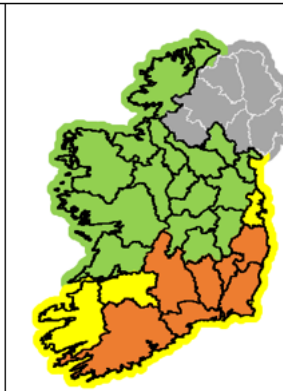
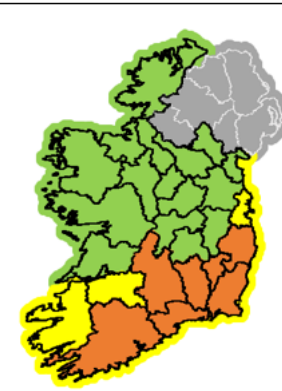
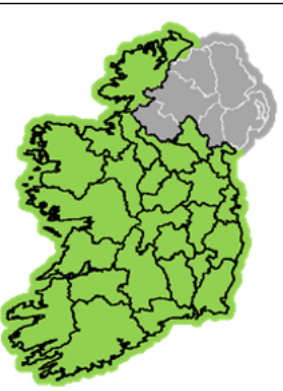
Flood Forecast Centre

Daily Flood Guidance Statement

Saturday 28th September 2024 12:45

Valid at the time of issue

Predominant Flood Risk	
River	Yellow
Coastal	Yellow
Surface Water	Orange



Day 1	Day 2	Day 3
Saturday	Sunday	Monday
28/09/2024	29/09/2024	30/09/2024

Legend

Normal	Green	Elevated	Yellow
High	Orange	Extremely High	Red

Alerts / Warnings / Notifications

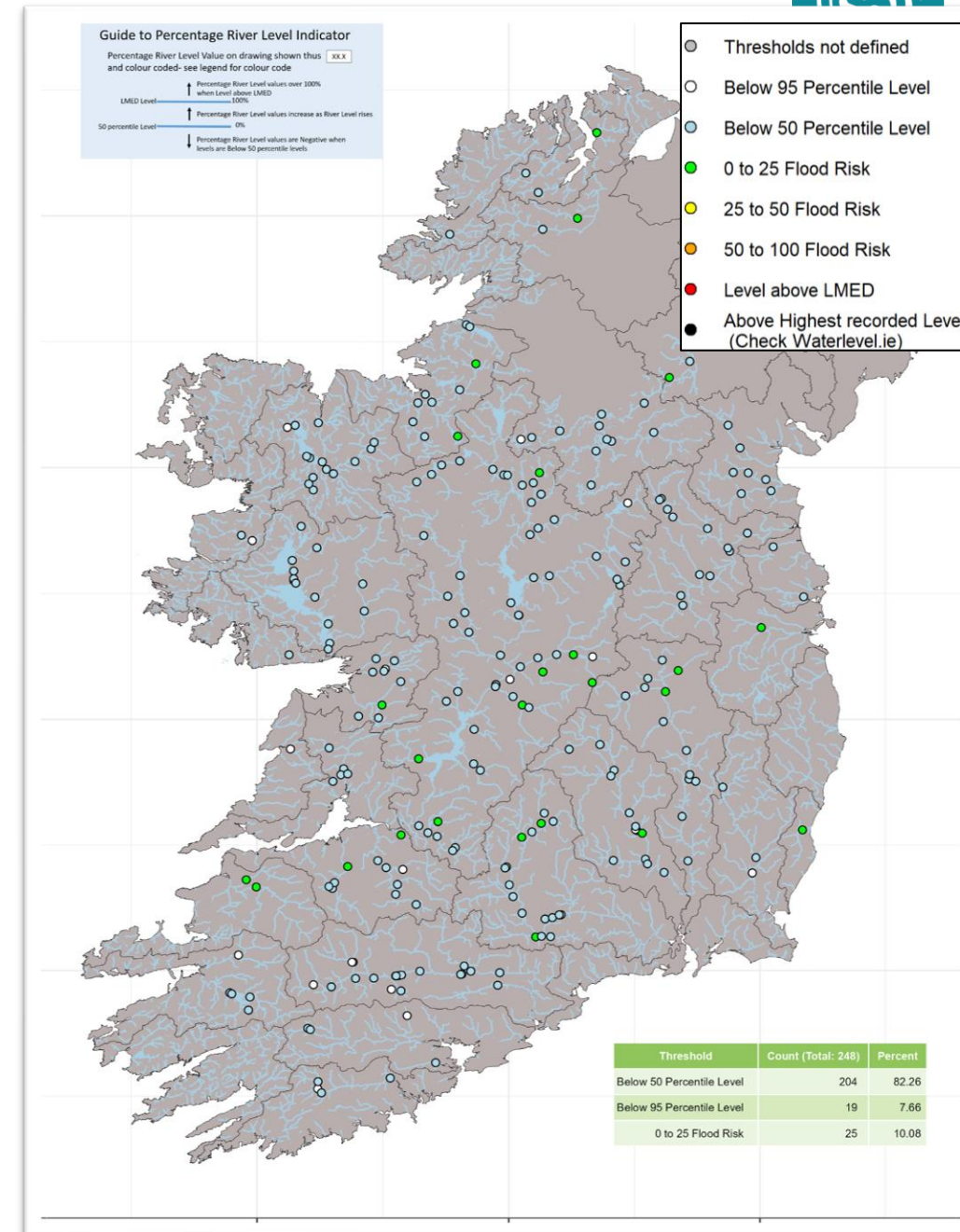
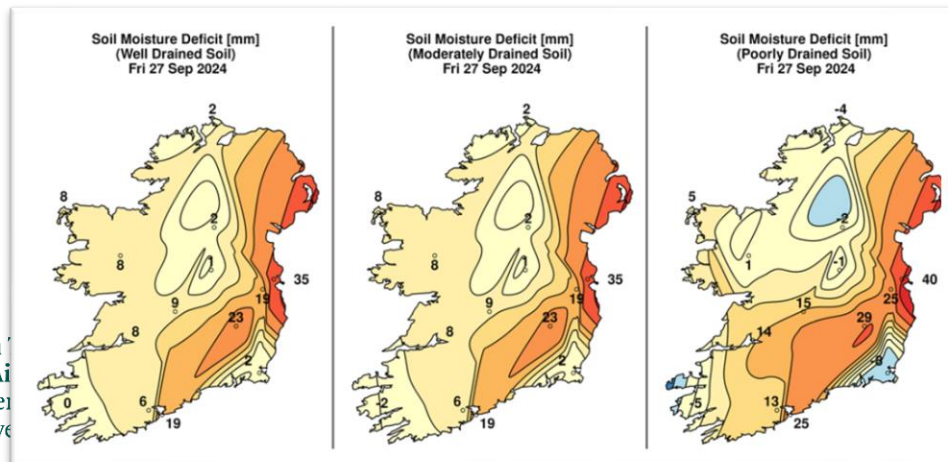
Flood Advisories and Alerts	No
Weather Warnings / Advisories	Yes
EFAS Notification(s)	No
High Tide Advisory	No

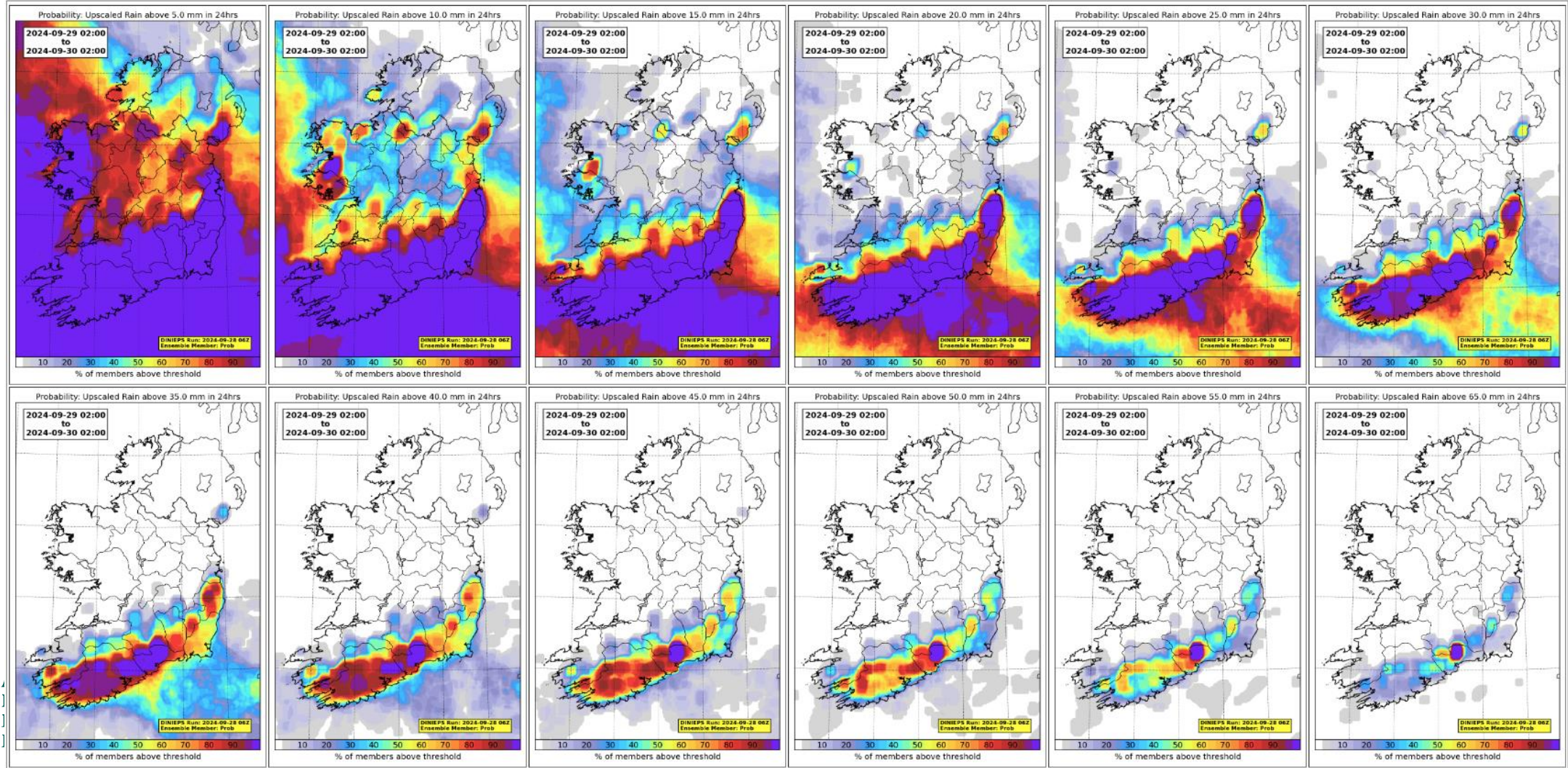
CURRENT RIVER STATUS



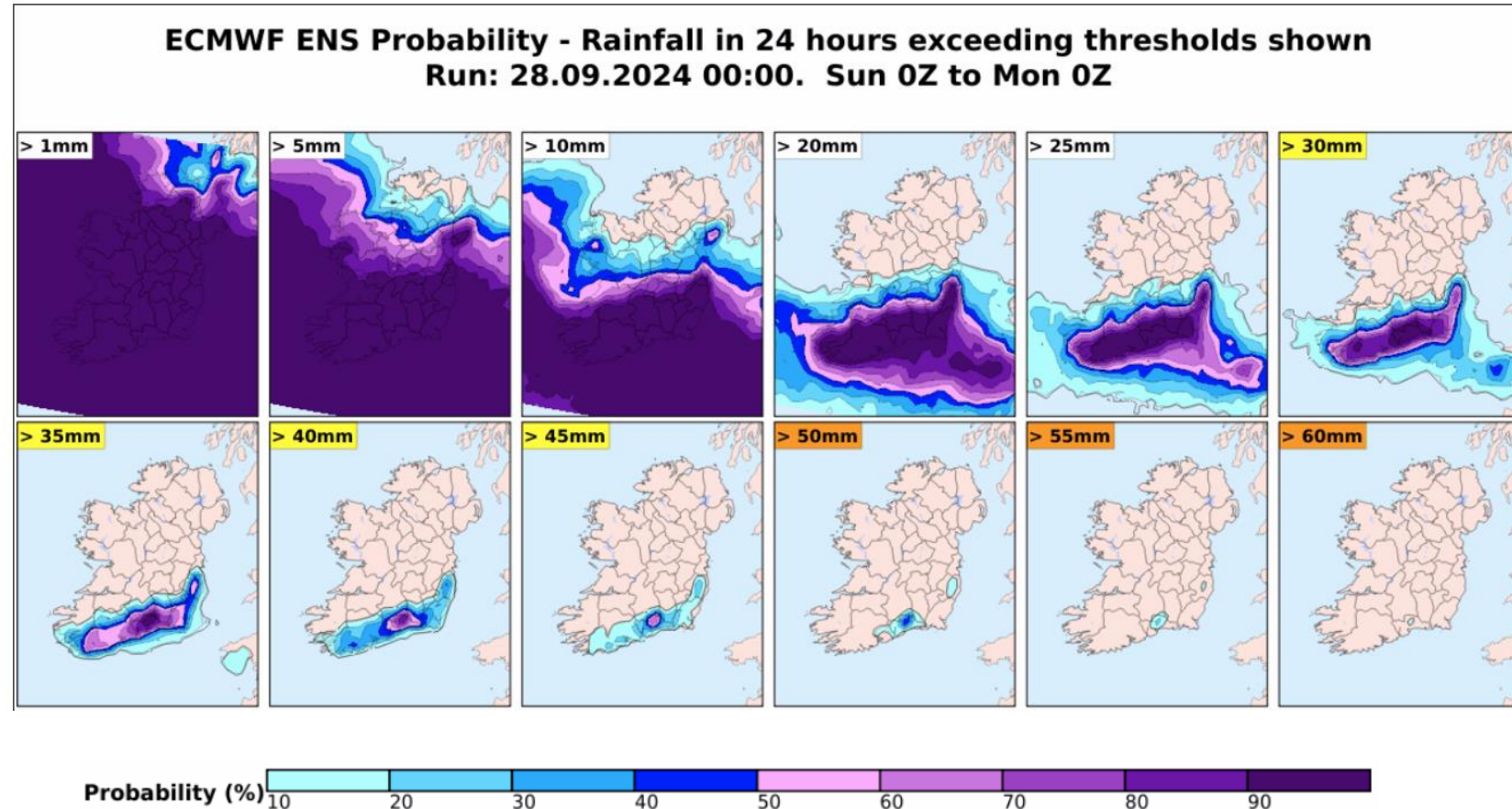
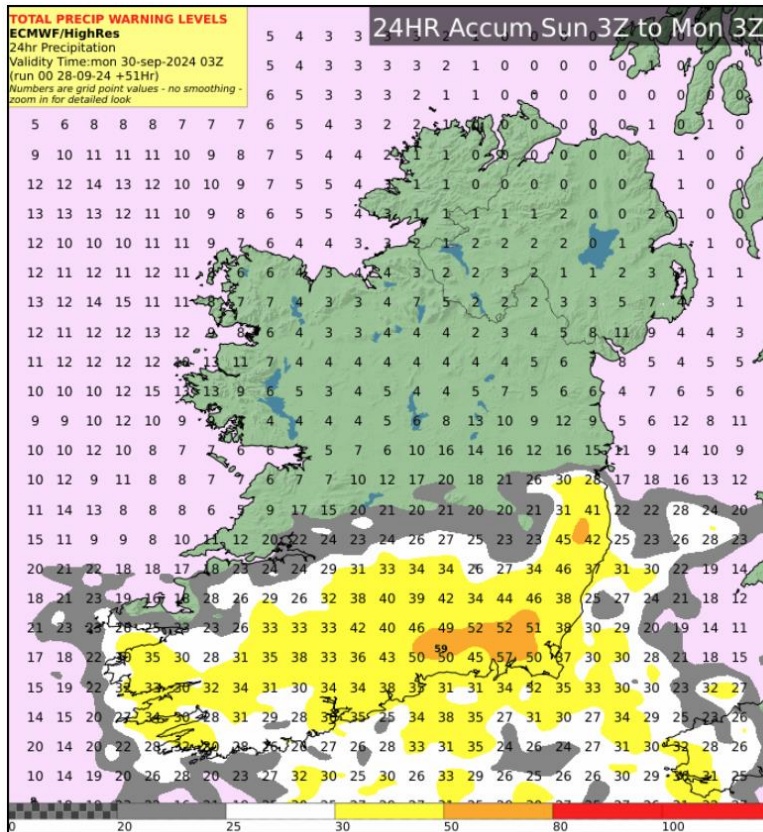
- No gauges are approaching or exceeding bank full conditions (L_{MED})
- ~ 90% of gauges currently below median flow levels
- Soils generally dry - except the southeast.

	Threshold	Count (Total: 248)	Percent
○	Below 50 Percentile Level	204	82.26
○	Below 95 Percentile Level	19	7.66
●	0 to 25 Flood Risk	25	10.08



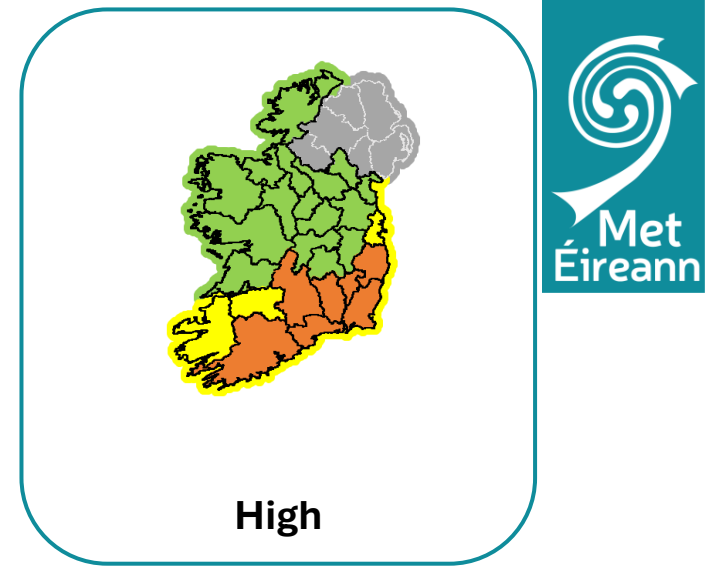


- Lower totals overall in EC
- Still a strong signal for >40mm/24hr across the south and southeast



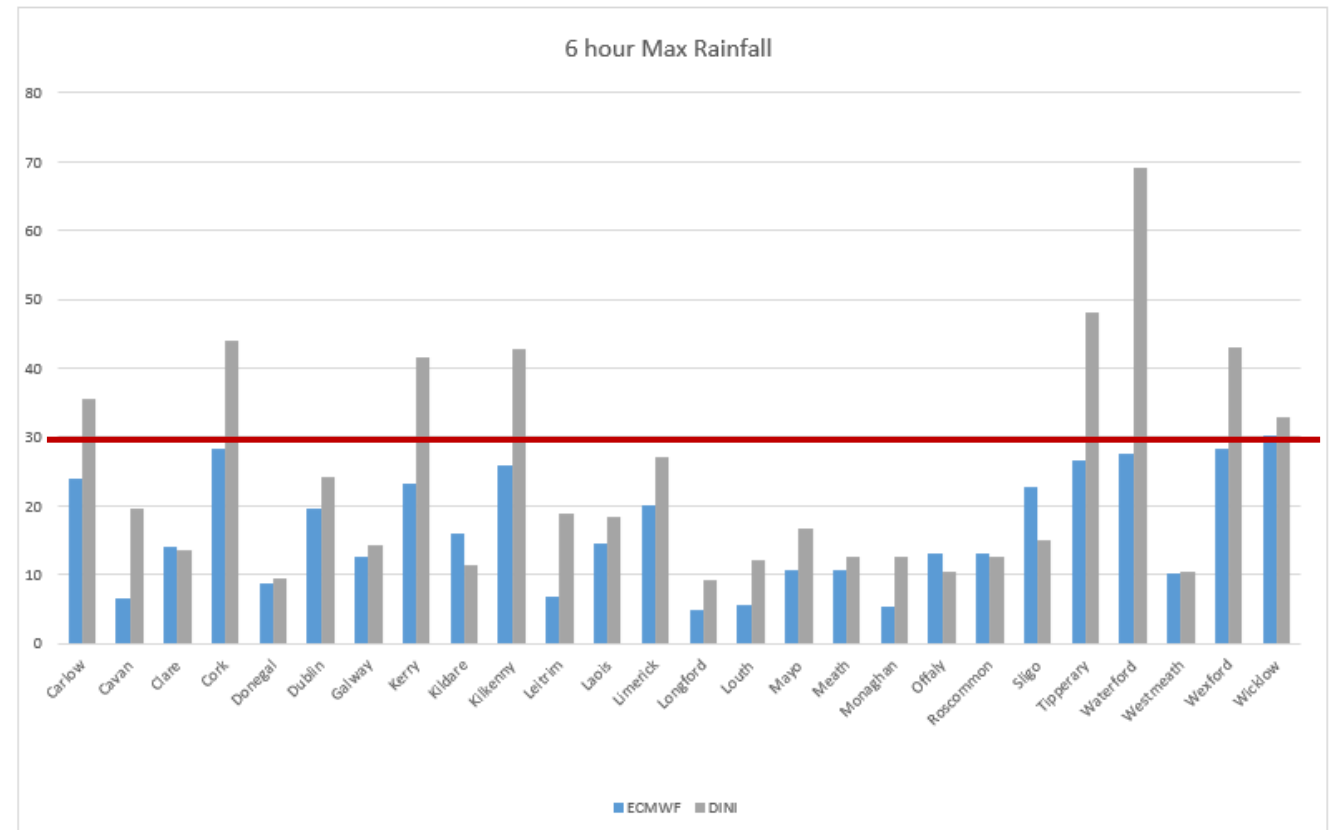
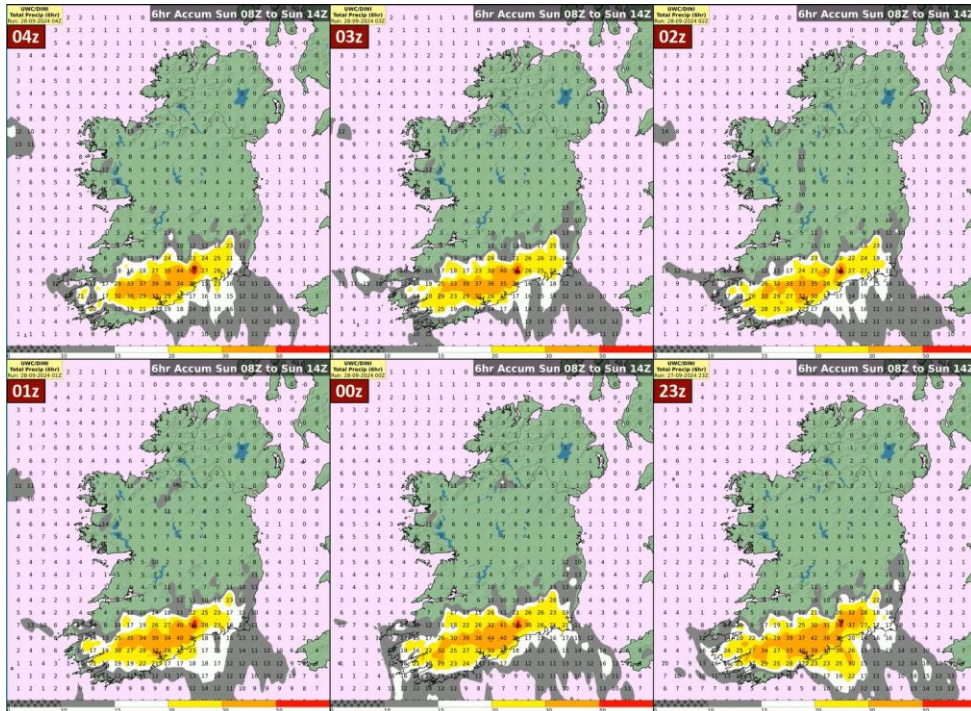
RIVER FLOOD RISK

- Soils are generally dry and river levels are low – with dry conditions today
- Indications that rivers will respond notably to rainfall
- Larger rivers should have enough capacity – but will rise
- However smaller and flashier rivers in urban and upland areas will rise quickly and may lead to out of bank flooding.
- River Levels are **HIGH for those smaller catchments** across Cork, Waterford, Tipperary, Kilkenny, Carlow, Wicklow and Wexford and **ELEVATED** in Kerry, Limerick and Dublin for Sunday and Monday.



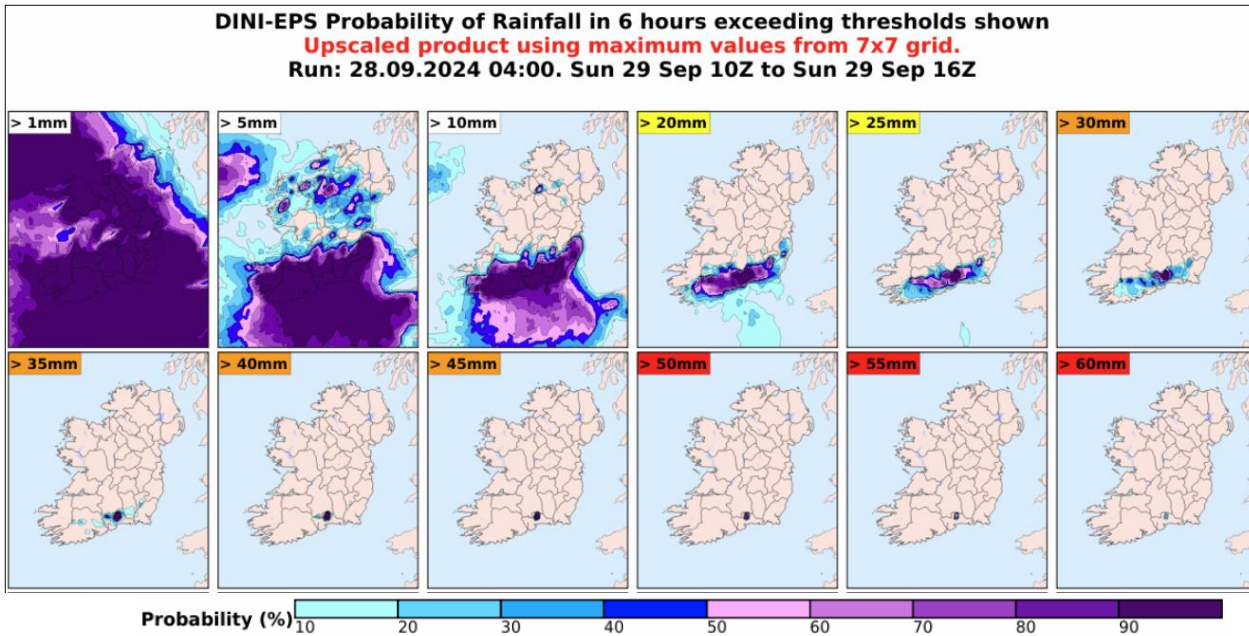
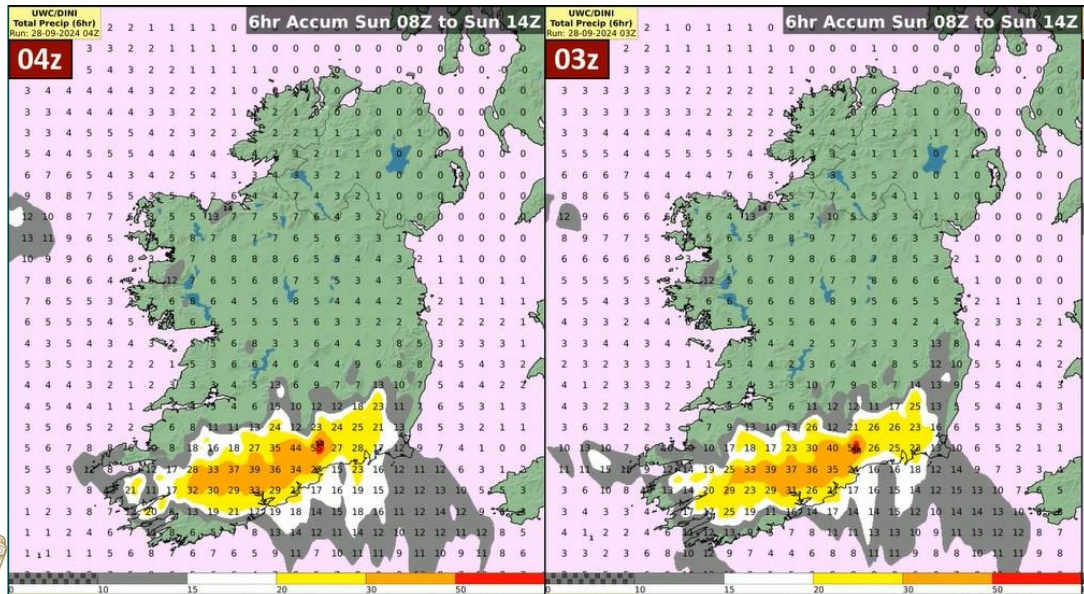
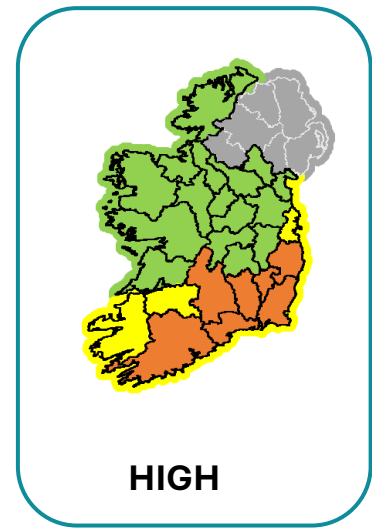
SURFACE WATER

- >60mm/6hrs locally over higher ground in Waterford in the DINI Deterministic
- >30mm/6hr widely expected across the south and southeast



SURFACE WATER

- DINI EPS showing a moderate signal for >30mm/6hrs in parts of the south.
- With high totals and intensities expected, and a rainfall warning in place, surface water levels are **HIGH** Cork, Waterford, Tipperary, Kilkenny, Carlow, Wicklow and Wexford and **ELEVATED** in Kerry, Limerick and Dublin

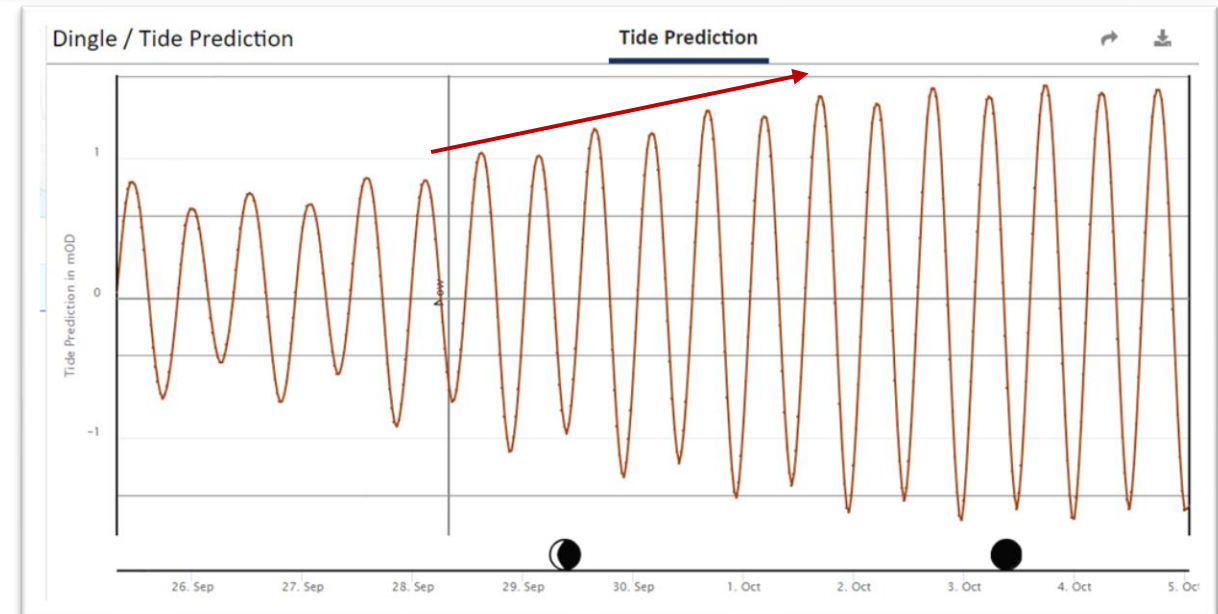
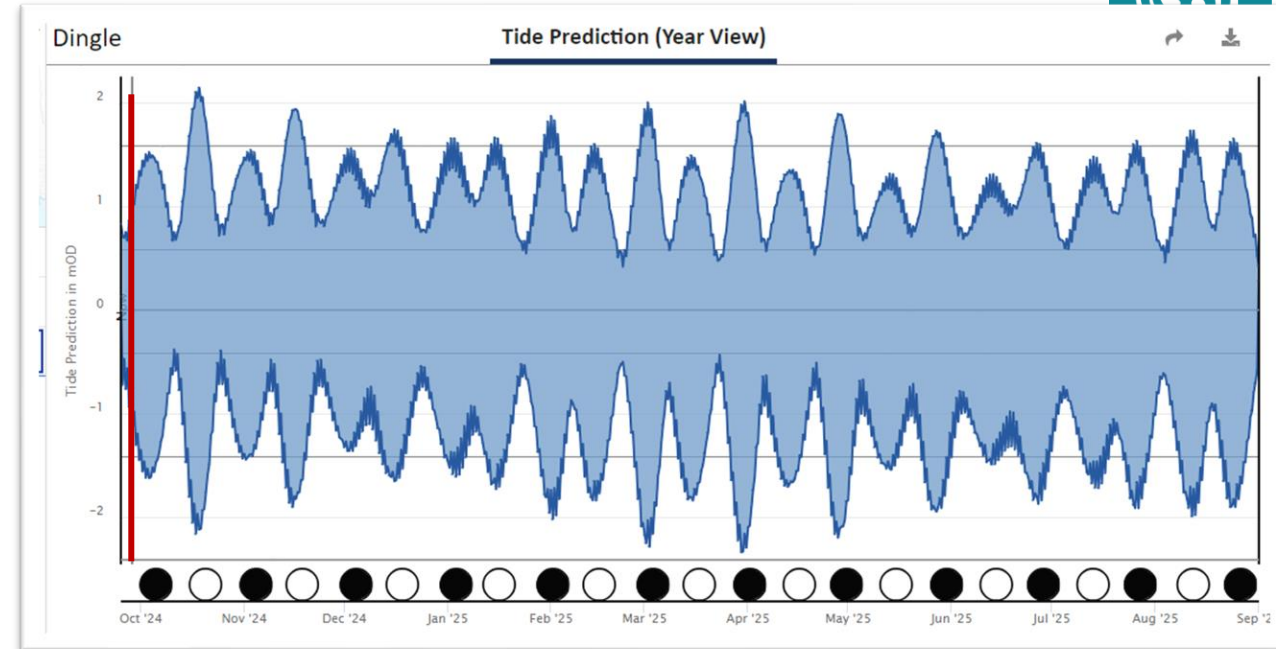


COASTAL – TIDE CYCLE



Tide Cycle

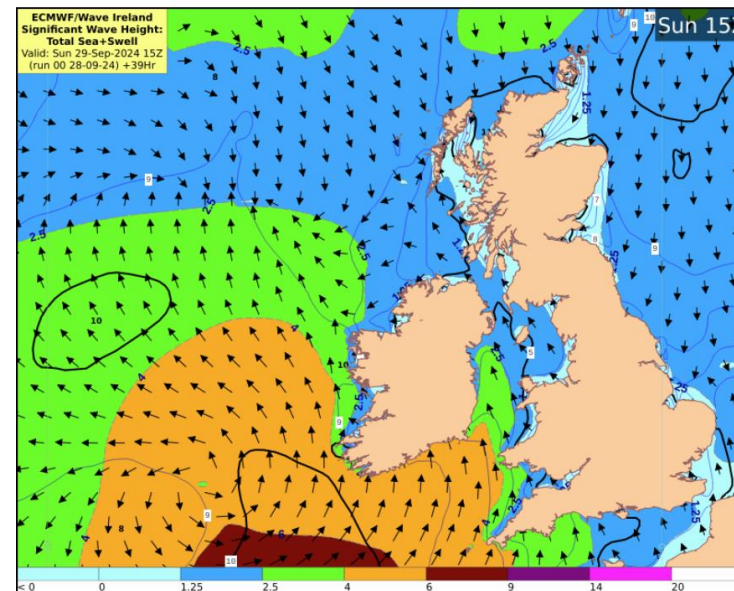
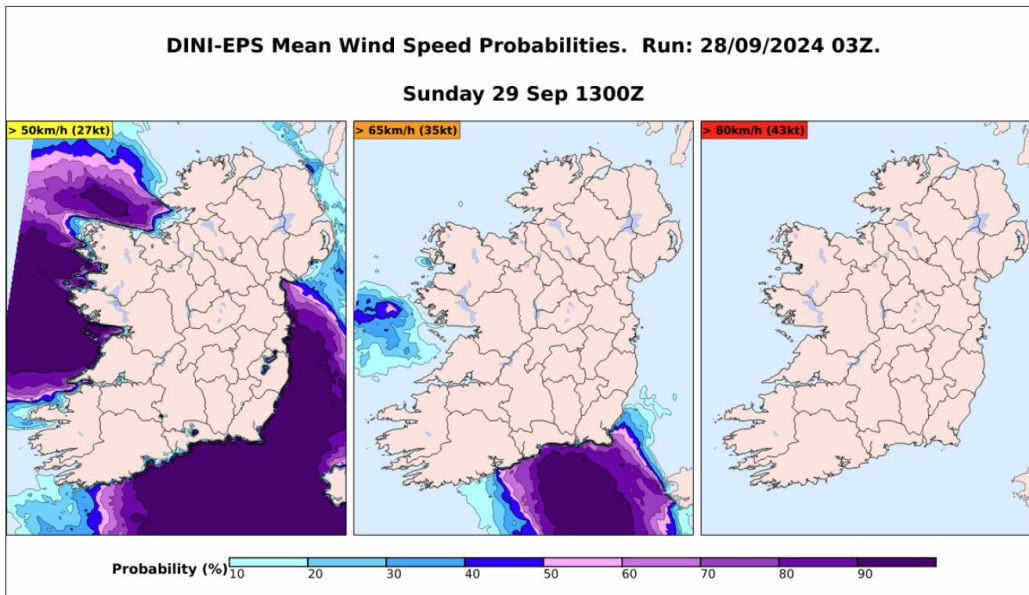
- Tidal range increasing - entering Spring Tides
- Typical high tide levels – nothing extraordinary



COASTAL – OVERVIEW

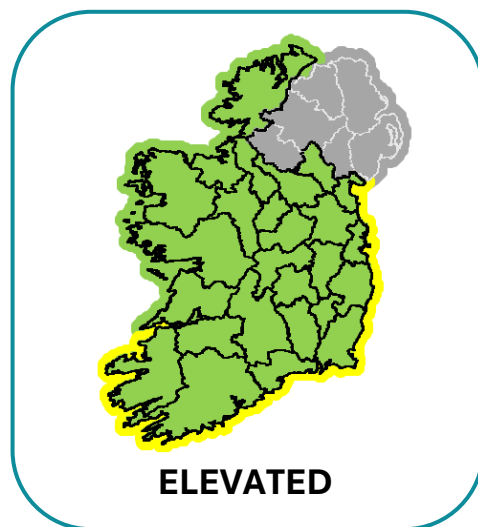
Overview

- Maximum surge over the outlook of 0.4m-0.6m on southern and eastern coasts, highest in the southeast on Sunday.
- Onshore gales on southern and eastern coasts are forecast for Sunday.
- HAT levels are approached on southern and eastern coasts
- Wave heights are forecast to exceed 99%iles in the south and east on Sunday



COASTAL

- The sustained on-shore strong winds across the south and east will raise levels near shore.
- The TSSF model does not account for wave setup, and waves are exceeding 99th percentile levels.
- Wave overtopping is probable, and low-level inundation possible around high tide times.
- On shore southeasterly gales will exacerbate conditions.
- Hence coastal levels are **ELEVATED** for the South and East tomorrow



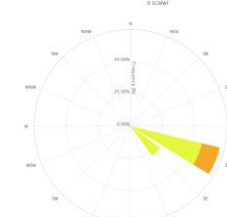
September 26, 2024 3:00 PM - September 26, 2024 3:00 PM
Forecast ECMWF Cork Harbour
T0 - 09/27/2024 12:00 PM UTC (10m)
© Met Éireann



Forecast Harmonie Cork Harbour
T0 - 09/27/2024 12:00 PM UTC (10m)
© Met Éireann



September 26, 2024 3:00 PM - September 26, 2024 3:00 PM
Forecast ECMWF Wexford Bay
T0 - 09/27/2024 12:00 PM UTC (10m)
© Met Éireann



Forecast Harmonie Wexford Bay
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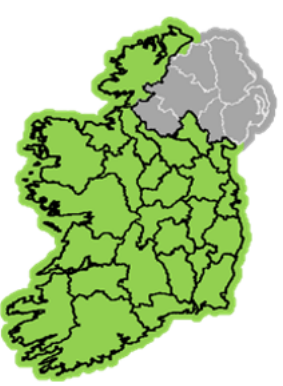
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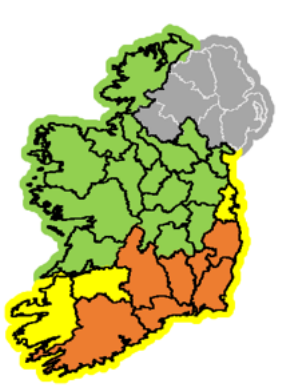
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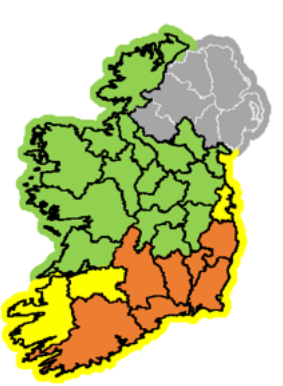
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Saturday
28/09/2024



Day 2
Sunday
29/09/2024



Day 3
Monday
30/09/2024

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