





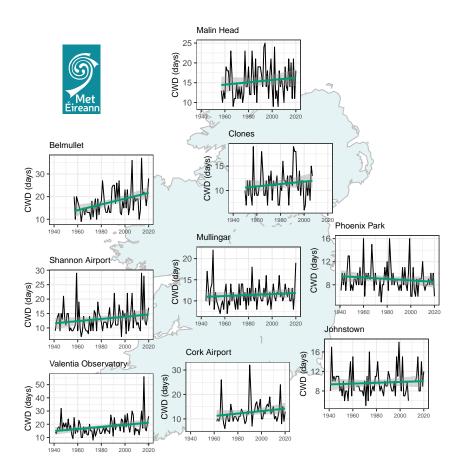
# Consecutive Wet Days (CWD)

# Key Message

• Some stations are seeing increases in the number of consecutive wet days (mostly in the west), but the majority of stations do not have significant long-term trends.

### **Definition**

- Daily precipitation (R), from 09UTC 09UTC observations, are used to calculate this index.
- The CWD index is the largest number of consecutive "wet days" (where  $R \ge 1$ mm) during the period of interest (year, season or month).









### **Trends**

- The graphs above indicate that **CWD** is primarily increasing at some western coastal locations, with a lack of statistically significant trends elsewhere.
- Ongoing research into data rescue and homogenisation indicate that the significance of these positive trends in **CWD** weaken when data was extended back to the start of the 20th century, [Ryan et al., 2021].
- Globally averaged **CWD** does not exhibit a strong signal but there are isolated pockets where trends are present, [Dunn et al., 2020]. One such area is around Ireland, where increasing trends are found but are generally not statistically significant.
- The largest value for CWD occurred at Valentia Observatory between the 23rd of November 2015 and 17th of January 2016, a period of 56 consecutive days with at least 1mm of rainfall recorded.

#### **Data Access**

Data for this index can be downloaded through the web-page below (or the QR code in the header):

• https://www.met.ie/climate/climate-change-indices-etccdi/

For further information contact Met Éireann Climate Enquiries: enquiries@met.ie

#### References

Robert JH Dunn et al. Development of an updated global land in situ-based data set of temperature and precipitation extremes: HadEX3. *Journal of Geophysical Research: Atmospheres*, 125(16):e2019JD032263, 2020. doi: https://doi.org/10.1029/2019JD032263.

Ciara Ryan et al. Long-term trends in extreme precipitation indices in Ireland. *International Journal of Climatology*, 2021. doi: https://doi.org/10.1002/joc.7475.