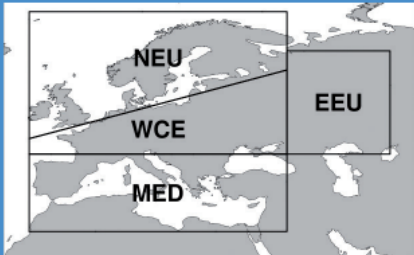


Appendix 3: Summary of confidence in direction of projected change in climactic impact-drivers in Europe (Ranasinghe et al., 2021, 1827)

Table 12.7 | Summary of confidence in direction of projected change in climatic impact-drivers in Europe, representing their aggregate characteristic changes for mid-century for scenarios RCP4.5, SSP2-4.5, SRES A1B, or above within each AR6 region (defined in Chapter 1), approximately corresponding (for CIDs that are independent of sea level rise) to global warming levels between 2°C and 2.4°C (see Section 12.4 for more details of the assessment method). The table also includes the assessment of observed or projected time-of-emergence of the CID change signal from the natural interannual variability if found with at least *medium confidence* in Section 12.5.2.

 Region	Climatic Impact-driver																													
	Heat and Cold				Wet and Dry								Wind				Snow and Ice					Coastal and Oceanic					Other			
	Mean air temperature	Extreme heat	Cold spell	Frost	Mean precipitation	River flood	Heavy precipitation and pluvial flood	Landslide	Aridity	Hydrological drought	Agricultural and ecological drought	Fire weather	Mean wind speed	Severe wind storm	Tropical cyclone	Sand and dust storm	Snow, glacier and ice sheet	Permafrost	Lake, river and sea ice	Heavy snowfall and ice storm	Hail	Snow avalanche	Relative sea level	Coastal flood	Coastal erosion	Marine heatwave	Ocean acidity	Air pollution weather	Atmospheric CO ₂ at surface	Radiation at surface
Mediterranean (MED)	●	●	●		●		5						6	7			●		●				●		2		●		●	
Western and Central Europe (WCE)	●	●	●					4									●		●				●		2		●		●	
Eastern Europe (EEU)	●	●	●														●												●	
Northern Europe (NEU)	●	●	●		●	1											●		●				●	8	2,3		●		●	

- 1. Excluding southern UK.
- 2. Along sandy coasts and in the absence of additional sediment sinks/sources or any physical barriers to shoreline retreat.
- 3. The Baltic Sea shoreline is projected to prograde if present-day ambient shoreline change rates continue.
- 4. For the Alps, conditions conducive to landslides are expected to increase.
- 5. Low confidence of decrease in the southernmost part of the region.
- 6. General decrease except in Aegean Sea.
- 7. Medium confidence of decrease in frequency and increase in intensities.
- 8. Except in the northern Baltic Sea region.

- Already emerged in the historical period (*medium to high confidence*)
- Emerging by 2050 at least in scenarios RCP8.5/SSP5-8.5 (*medium to high confidence*)
- Emerging after 2050 and by 2100 at least in scenarios RCP8.5/SSP5-8.5 (*medium to high confidence*)

High confidence of decrease	Medium confidence of decrease	Low confidence in direction of change	Medium confidence of increase	High confidence of increase	Not broadly relevant
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