

Online Resource 2

Grosswetterlagen (GWL) classification of atmospheric circulation: types, forms, and subclasses

Form	Type (GWT)	Subtype (GWL) ^a	A – anticyclonal, C – cyclonal	CH – continental high, AL – Atlantic low ^b	WM – winter monsoon SM – summer monsoon ^b
ZONAL – Z	West (W)	WA – Anticyclonic Westerly WZ – Cyclonic Westerly WS – South-Shifted Westerly WW – Westerly, Block Eastern Europe	A C C C	- AL - -	- SM - -
MIXED, HALF-MERIDIONAL – H	Southwest (SW)	SWA – Anticyclonic South-Westerly SWZ – Cyclonic South-Westerly	A C	- AL	- -
	Northwest (NW)	NWA – Anticyclonic North-Westerly NWZ – Cyclonic North-Westerly	A C	- AL	SM SM
	Central European high (HME)	HM – High over Central Europe BM – Zonal Ridge across Central Europe	A A	- CH	- -
	Central European low (TME)	TM – Low (Cutoff) over Central Europe	C	CH	-
MERIDIONAL – M	North (N)	NA – Anticyclonic Northerly NZ – Cyclonic Northerly HNA – Icelandic High, Ridge Central Europe HNZ – Icelandic High, Trough Central Europe HB – High over the British Isles TRM – Trough over Central Europe	A C A C A C	- - - - - -	SM SM WM WM SM SM
		NEA – Anticyclonic North-Easterly NEZ – Cyclonic North-Easterly	A C	CH -	WM WM
		HFA – Scandinavian High, Ridge Central Europe HFZ – Scandinavian High, Trough Central Europe HNFA – High Scandinavian-Iceland, Ridge C. Europe HNFZ – High Scandinavian-Iceland, Trough C. Europe	A C A C	CH - CH -	WM WM WM WM
		SEA – Anticyclonic South-Easterly SEZ – Cyclonic South-Easterly	A C	CH -	WM WM
		SA – Anticyclonic Southerly SZ – Cyclonic Southerly TB – Low over the British Isles TRW – Trough over Western Europe	A C C C	- - - -	- - - -
	South (S)				
U – Undefined					

^a descriptions after Hoy et al. 2014; ^b division after Kämpfe 2013

Hoy A, Schucknecht A, Sepp M, Matschullat J (2014) Large-scale synoptic types and their impact on European precipitation. Theor Appl Climatol 116:19–35

Kämpfe S (2013) Im Takt der AMO und der NAO (1): Das Häufigkeitsverhalten der Grosswetterlagen und dessen Auswirkungen auf die Deutschland-Temperaturen. <http://www.eike-klima-energie.eu/klima-anzeige/im-takt-der-amo-und-der-nao-1-das-haeufigkeitsverhalten-der-grosswetterlagen-und-dessen-auswirkungen-auf-die-deutschland-temperaturen/>. Accessed 12 Jul 2016